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Submission

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Abstract: Comments on TGax D1.0

SAMSUNG 1035

Revision	Date	Description
0	2017-01-09	Initial export from DB

CID	Commenter	LB	Draft	Clause Number(C)	Page(C)	Line(C)	Type of Comment	Part of No Vote	Page	Clause	Duplicate of CID	Resn Status	Comment	Proposed Change	Resolution	Owning Ad-hoc	Comment Group	Ad-hoc Status	Ad-hoc Notes	Edit Status	Edit Notes	Edited in Draft	Last Updated	Last Updated By
3000	Abhishek Patil	225		1 4.3.14a	9	21	T	N	9.21	4.3.14a			Restructure the following sentence: "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only"	"An HE non-AP STA shall support 20 MHz channel bandwidth only operation"									2017/1/9 9:42	
3001	Abhishek Patil	225		1 4.3.14a	9	26	T	N	9.26	4.3.14a			Restructure the following sentence: "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only"	"An HE non-AP STA shall support 20 MHz channel bandwidth only operation"									2017/1/9 9:42	
3002	Abhishek Patil	225		1 4.3.14a	9	57	T	N	9.57	4.3.14a			Add BSS_COLOR, Dual Beaconing and Spatial Reuse to the list.	As in the comment									2017/1/9 9:42	
3003	Abhishek Patil	225		1 6.3.3.2	11	15	T	Y	11.15	6.3.3.2			MLME-SCAN.request should include HT/VHT/HE Capabilities since the Probe Request frames can carry these capabilities elements	Add HT/VHT/HE Capabilities to MLME-SCAN.request section									2017/1/9 9:42	
3004	Abhishek Patil	225		1 9.2.4.6.1	22	59	T	N	22.59	9.2.4.6.1			Add a sentence in the description that says the combined size shall not exceed 30 bits.	Update sentence as follows: "The A-Control subfield contains a sequence of one or more Control subfields whose combined length does not exceed 30 bits."									2017/1/9 9:42	
3005	Abhishek Patil	225		1 9.2.4.6.4.7	28	6	T	N	28.06	9.2.4.6.4.7			From the Table it is not clear if only Bit 0 can be set to 1 to indicate 20 MHz is available or any one of the bits can be set to indicate that that 20 MHz is available. Same is true for 40 and 80 MHz.	Presentation to be provided which would provide a mechanism to either consolidate the bits or provide more functionality and granularity.									2017/1/9 9:42	
3006	Abhishek Patil	225		1 9.3.1.8	33	49	T	N	33.49	9.3.1.8			What is the BAR Ack Policy subfield for MU-BAR?	Presentation to be provided which would reflect the requirements in the baseline.									2017/1/9 9:42	
3007	Abhishek Patil	225		1 9.3.1.9.1	34	10	T	N	34.10	9.3.1.9.1			Correct bit number: B6 to B5 in Figure 9-33	As in the comment									2017/1/9 9:42	
3008	Abhishek Patil	225		1 9.3.1.9.1	34	23	T	N	34.23	9.3.1.9.1			What is the BA Ack Policy subfield for M-BA in MU, ACK in SU, ACK in MU	Presentation to be provided which would reflect the requirements in the baseline.									2017/1/9 9:42	
3009	Abhishek Patil	225		1 9.3.1.9.3	37	16	T	Y	37.16	9.3.1.9.3			AMSDU fragmentation is allowed. Remove the sentence, "For an A-MSDU, only the first bit of the subbitmap is used, as fragmentation is not allowed in an A-MSDU."	Remove the sentence "For an A-MSDU, only the first bit of the subbitmap is used, as fragmentation is not allowed in an A-MSDU."									2017/1/9 9:42	
3010	Abhishek Patil	225		1 9.3.1.9.7	39	63	T	Y	39.63	9.3.1.9.7			AMSDU fragmentation is allowed. Remove the sentence, "For an A-MSDU, only the first bit of the subbitmap is used, as fragmentation is not allowed in an A-MSDU."	Remove the sentence "For an A-MSDU, only the first bit of the subbitmap is used, as fragmentation is not allowed in an A-MSDU."									2017/1/9 9:42	
3011	Abhishek Patil	225		1 9.3.1.23	41	46	T	N	41.46	9.3.1.23			There is no reason to have a bracket around RA as RA is always present in the trigger frame	Remove brackets around RA.									2017/1/9 9:42	
3012	Abhishek Patil	225		1 9.3.1.23	43	1	T	N	43.01	9.3.1.23			The expected behavior of a STA that receives the CS Required set to a certain value is somehow sparsed and confusing in all normative subclauses I checked. Please add a reference here to where the normative behaviro is defined. It should be something along this lines: If CS Required is 0 then STA is not requred to check ED and NAV, if CS Required is 1 then STA is required to check both ED and NAV.	As in comment.									2017/1/9 9:42	
3013	Abhishek Patil	225		1 9.3.1.23	45	7	T	N	45.07	9.3.1.23			The SR field 1 and SR field 2 definition should be bandwidth dependent and operating band agnostic. The definition of SR field 1 and SR field 2 for 40 MHz should not be specific for 2.4 GHz.	remove "in 2.4 GHz" in the sentence "When operating 40 MHz in 2.4GHz band, two SR fields, SR field 1 and SR field 2, are set to same values."									2017/1/9 9:42	
3014	Abhishek Patil	225		1 9.3.1.23	45	8	T	N	45.08	9.3.1.23			Shouldn't SR fields for 80+80 be defined in the same way as the SR field for 160 MHz?	On P45L6, remove: "When operating 80+80 MHz, SR field 3 is set to same value as SR field 1, and SR field 4 is set to the same value as SR field 2." Insert on P45L5: "For 80+80 MHz four SR fields for each 40 MHz"									2017/1/9 9:42	
3015	Abhishek Patil	225		1 9.3.1.23	47	7	T	N	47.07	9.3.1.23			The number of Spatial stream can't be 0. Therefore the number of spatial streams should be Nss-1.	Change "Number of Spatial Streams" to "NSS_1" and define Nss_1 as the Number of spatial streams -1.									2017/1/9 9:42	
3016	Abhishek Patil	225		1 9.3.1.23	47	7	T	N	47.07	9.3.1.23			The starting spatial stream can't be 0. Therefore the Starting spatial stream should be -1.	Change "Starting Spatial Stream" to "Starting spatial stream -1"									2017/1/9 9:42	

3017	Abhishek Patil	225	1 9.3.1.23	48	17	T	N	48.17 9.3.1.23	CCK and DSSS rates should also be disabled for Trigger frame transmission. Same observation for Short GI.	The Trigger frame shall not be transmitted using CCK or DSSS rates. The Trigger frame shall not be transmitted with Short GI.	2017/1/9 9:42
3018	Abhishek Patil	225	1 9.3.1.23.1	49	6	T	N	49.06 9.3.1.23.1	The AC Preference level is not required. If the AP wants to set AC Preference level to 0 then it could as well set Preferred AC to 3 and allow the STA to send any type of traffic. This frees up one bit.	Remove AC Preference level and add statement, If the AP does not have a recommendation for preferred AC then Preferred AC level is set to 3.	2017/1/9 9:42
3019	Abhishek Patil	225	1 9.3.1.23.4	50	49	T	N	50.49 9.3.1.23.4	The setting of the CS required field is missing in some cases. Specify that the AP should set the CS Required to 1 when transmitting the MU-RTS frame	Insert on P50L47: "The CS Required is set to 1".	2017/1/9 9:42
3020	Abhishek Patil	225	1 9.3.3.1	52	13	E	N	52.13 9.3.3.1	Beacon Frame section number is 9.3.3.3 in REVmc. Same comment applies to Association Request/Response and Reassociation Request/Response frames.	Change section number to match Baseline. This also applies to Association request/response and Reassociation request/response frames.	2017/1/9 9:42
3021	Abhishek Patil	225	1 9.3.3.1	52	43	T	Y	52.43 9.3.3.1	MU EDCA Parameter missing in Beacon frame. Same comment applies to Association Request/Response and Reassociation Request/Response frames.	Add MU-EDCA Parameter to the table 9-27. Same applies to Association Response, Reassociation Response and Probe Response frames. Please add MU-EDCA Parameter to tables 9-30, 9-32 and 9-34.	2017/1/9 9:42
3022	Abhishek Patil	225	1 9.3.3.6	53	17	E	N	53.17 9.3.3.6	Order for TWT is incorrect in Table 9-30	11ah D11 shows TWT order as 38 in table 9-30	2017/1/9 9:42
3023	Abhishek Patil	225	1 9.4.1.11	55	51	T	N	55.51 9.4.1.11	HE Category has not been specified, specify the value.	Specify HE category	2017/1/9 9:42
3024	Abhishek Patil	225	1 9.4.1.62	57	21	T	N	57.21 9.4.1.62	The HE MIMO Control Field should refer to HE Compressed Beamforming frame not VHT Compressed beamforming frame Change "VHT Compressed Beamforming frame" to "HE Compressed Beamforming frame"	Change "VHT Compressed Beamforming frame" to "HE Compressed Beamforming frame"	2017/1/9 9:42
3025	Abhishek Patil	225	1 9.4.1.62	57	34	T	N	57.34 9.4.1.62	The HE MIMO Control Field should refer to HE Compressed Beamforming frame not VHT Compressed beamforming frame Change "VHT Compressed Beamforming frame" to "HE Compressed Beamforming frame"	Change "VHT Compressed Beamforming frame" to "HE Compressed Beamforming frame"	2017/1/9 9:42
3026	Abhishek Patil	225	1 9.4.2.1	67	29	T	Y	67.29 9.4.2.1	Add missing elements to table 9-77	Add BSS Color Change Announcement and Quiet time elements to table 9-77. Enter 'yes' under Extensible column for these entries	2017/1/9 9:42
3027	Abhishek Patil	225	1 9.4.2.1	67	16	E	N	67.16 9.4.2.1	Correct section reference for HE Capabilities and HE Operations	Change reference to 218 and 219 respectively	2017/1/9 9:42
3028	Abhishek Patil	225	1 9.4.2.6	67	57	T	N	67.57 9.4.2.6	Either TIM frame or FILS Discovery frame will included at the beginning of a broadcast TWT - replace and with or	replace 'and' with 'or'	2017/1/9 9:42
3029	Abhishek Patil	225	1 9.4.2.6	68	2	T	N	68.02 9.4.2.6	The operation applies to current TWT SP - the sentence doesn't need to discuss about what happens outside the current TWT SP	Remove: "and before the next TWT SP" and make reference to "current" TWT SP. Change sentence as following: "Bit number N in the traffic indication virtual bitmap is 0 if the AP does not intend to transmit to the STA or to trigger the STA for an UL MU transmission during the current TWT SP."	2017/1/9 9:42
3030	Abhishek Patil	225	1 9.4.2.139	68	65	T	Y	68.65 9.4.2.139	Level3 is missing from ADDBA	As in the comment	2017/1/9 9:42
3031	Abhishek Patil	225	1 9.4.2.200	70	4	T	Y	70.04 9.4.2.200	A TWT Scheduling STA that is responding to a TWT request to setup a wake TBTT will see the TBTT Negotiation subfield value to 1. Also see section 27.7.3.4 (pg 186, line 48)	Change the sentence to say that a TWT scheduling STA that is responding to a TWT request to setup a wake TBTT shall set the value of TBTT Negotiated subfield to 1.	2017/1/9 9:42
3032	Abhishek Patil	225	1 9.4.2.218.3	82	14	T	N	82.14 9.4.2.218.3	Channel width set allows a HE AP which also a STA to support only 20 MHz mode. Clarify that an HE AP shall support 20,40,80 MHz in 5GHz and 20,40 in 2.4 GHz.	P82.44 Insert a Note "A HE AP shall support 20,40,80 MHz mode in 5GHz band."	2017/1/9 9:42
3033	Abhishek Patil	225	1 9.4.2.218.3	86	21	T	N	86.21 9.4.2.218.3	What is the Power Boost Factor +^r Support used for?	Define Power Boost factor	2017/1/9 9:42

3034	Abhishek Patil	225	1 9.4.2.219	91	1	T	N	91.01 9.4.2.219	MaxBSSID Indicator field is 1 octet in length and is only useful (i.e., valid) if the AP is part of a Multiple BSSID Set. Make MaxBSSID Indication separate (optional) field. Add a bit sub-field to HE Parameters to indicates if the AP is part of a Multiple BSSID set.	Add a new bit field in HE Operation Parameters call Multiple BSSID AP. Move MaxBSSID Indication sub-field out of HE Operation Parameter field and make it a separate (optional) field. MaxBSSID Indicator field is present in HE Operation element only when Multiple BSSID AP bit in HE Parameters field is 1. In addition, the value of Tx BSSID Indicator is ignored if the Multiple BSSID AP bit value is 0.		2017/1/9 9:42
3035	Abhishek Patil	225	1 9.4.2.219	91	1	T	N	91.01 9.4.2.219	VHT Operation Information field is useful only when operating in 5GHz. Make the 3-octet VHT Operation Information field option and add a bit in the HE Parameters to indicate the presence of VHT Operation Information field	As in comment		2017/1/9 9:42
3036	Abhishek Patil	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	Remove text that doesn't apply anymore and is covered in the following paragraph	Remove paragraph starting on line 39. Paragraph starting on line 44 is correct and should be kept		2017/1/9 9:42
3037	Abhishek Patil	225	1 9.4.2.222	95	43	E	N	95.43 9.4.2.222	Correct typos	remove '-' in Announcement (ln 43), remove s in elements (ln 45)		2017/1/9 9:42
3038	Abhishek Patil	225	1 9.4.2.223	95	48	T	Y	95.48 9.4.2.223	Instead of defining 3 separate elements for Quiet time setup/Req/Resp, combined to one element which carries a code to indicate the sub-type of the element and the operation involved	Rename 9.4.2.223 as HE Quiet Time and remove 9.4.2.224 & 9.4.2.225. Add 3 sub-sections to this section - each section representing the sub-type of the HE Quiet Time: 1. 9.4.2.223.1 Quiet Time Period Announcement - This section will carry the description in 9.4.2.223 - change the figure & description to include a 1 octet code field (value 1 for this operation) 2. 9.4.2.223.2 Quiet Time Period Request - This section will carry the description in 9.4.2.224 - change the figure & description to include a 1 octet code field (value 2 for this operation) 3. 9.4.2.223.2 Quiet Time Period Response - This section will carry the description in 9.4.2.225 - change the figure & description to include a 1 octet code field (value 3 for this operation)		2017/1/9 9:42
3039	Abhishek Patil	225	1 9.4.2.223	95	50	E	N	95.50 9.4.2.223	Correct typo and section reference	Incorrect section reference - should be 27.16.3. Also on ln 55, change STA-2-STA to STA-to-STA		2017/1/9 9:42
3040	Abhishek Patil	225	1 9.4.2.223	96	15	E	N	96.15 9.4.2.223	Element ID Extension missing in description	The description of this section should mention Element ID Extension - same applies to 9.4.2.224 & 9.4.2.225		2017/1/9 9:42
3041	Abhishek Patil	225	1 9.4.2.223	96	24	T	N	96.24 9.4.2.223	Instead of IEEE defining/providing unique identifier for Vendor Specific Service Identifier, can STAs (involved in STA-to-STA) pick a (random) value for their STA-to-STA service and report it to their AP during the request? AP then advertises this value during the Quiet time setup. There is a chance of collision but it should be fairly small. This also helps the case where multiple disjoint set of STAs associated with the same AP request quiet time for the same type of service. This comment also applies to section 27.16.3	Rename'Vendor Specific Service Identifier' to 'Specific Service Identifier' in figure and related description from sections 9.4.2.223, 224 & 225. Add text that describes that the requesting STA (in its request to the AP) indicates the identifier it has picked for the STA-to-STA service it wishes to run during the quiet time.		2017/1/9 9:42
3042	Abhishek Patil	225	1 9.4.2.224	96	58	E	N	96.58 9.4.2.224	change order of description to match field order	Change the order of description for Quiet Period Interval and Quiet Duration field		2017/1/9 9:42
3043	Abhishek Patil	225	1 9.4.2.225	97	30	T	N	97.30 9.4.2.225	Quiet Time Period Response doesn't need to carry all the fields in the Request - it can simply carry a status code field to indicate whether the request was succesful	Remove fields (and corresponding description) between Dialog Token and Status code		2017/1/9 9:42

3044	Abhishek Patil	225	1 9.4.2.225	97	32	T	Y	97.32 9.4.2.225	The value of 'offset' field for the first quiet period should be consistent with the value indicated in the request	Change sentence to: "The reference time is the start of the preamble of the PPDU that contains request element to which this element is a response." Actually this field should be removed since it doesn't add any value. This element is in response to the request. It should only carry dialog token and status code.	2017/1/9 9:42
3045	Abhishek Patil	225	1 9.4.2.225	97	48	T	N	97.48 9.4.2.225	There is no reason for status code to be 2 octet long. Also define possible values and their meaning for status code field for status code	Change status code to 1 octet field. Add a table that define values for status code - for example, (0)success, (1)reject - requested period too long (2)reject - requested periodicity too long (3) so on....	2017/1/9 9:42
3046	Abhishek Patil	225	1 9.6.8.36	99	61	T	N	99.61 9.6.8.36	Presence of TIM Element in FILS Discovery can have wider application, and doesn't have to be tied to TWTOperation only	Remove the restriction, as in the comment	2017/1/9 9:42
3047	Abhishek Patil	225	1 9.6.5.1	99	14	T	N	99.14 9.6.5.1	Definition of L3 FRAG ADDBA Req/Resp is missing, though the values for Action field are defined in Table 9-302	Add the definition as in the comment	2017/1/9 9:42
3048	Abhishek Patil	225	1 9.6.29	104	20	T	Y	104.20 9.6.29	Don't need to define 3 separate action frames for Quiet Time Period - the 3 operations can be consolidated as one action frame with a code field separating each operation	See comment suggestion consolidating the 3 Quiet Time Period elements to one element with a code field value for each operation.	2017/1/9 9:42
3049	Abhishek Patil	225	1 9.6.29	104	14	T	N	104.14 9.6.29	Instead of defining a new action frame, Quiet Time Period frames can be of type HE Action frame.	Add Quiet Time Period category under HE Action frames and create a section that describes frames related to Quiet Time Period	2017/1/9 9:42
3050	Abhishek Patil	225	1 9.6.29.4	105	28	T	Y	105.28 9.6.29.4	Incorrect text	This paragraph describes the request operation - instead it should describe the response operation	2017/1/9 9:42
3051	Abhishek Patil	225	1 10.24.10.3	134	10	T	N	134.10 10.24.10.3	Add text clarifying that GCR mechanism is used only for STAs that have indicated support for GCR (via bit 51 / 52 of Extended Capabilities Element).	As in comment	2017/1/9 9:42
3052	Abhishek Patil	225	1	134	26	T	N	134.26	Why should AP send MU-BAR to solicit BA for a GCR session?	Remove MU BAR to solicit BA for GCR session	2017/1/9 9:42
3053	Abhishek Patil	225	1 10.24.10.3	134	41	T	Y	134.41 10.24.10.3	Procedure for GCR MU BAR reception is missing	Add procedure upon reception of GCR MU BAR	2017/1/9 9:42
3054	Abhishek Patil	225	1 11.1.3.10	141		T	Y	141.00 11.1.3.10	Action on non-AP STA needs to be described - esp how will the non-AP HE STA that is close to the HE AP (and can receive group address traffic in both the formats) manage filtering duplicate group address traffic	Need to specify non-AP STA action - for example, a non-AP STA that is close to the AP can receive both ER and non-ER frames. Need a mechanism to filter duplicate group addressed traffic and indicating preference for receiving unicast frames in one particular PHY (ER or non-ER) format. This can help with power-save. Need a mechanism to differentiate between group addressed and unicast so that STA can quickly filter a particular PHY format. For example, HE-SIG-A field could carry a particular combination of values to indicate groupcast traffic in ER format. A non-AP STA can choose to monitor all group address traffic on just one type of PPDU and ignore all group addressed traffic received on the other PPDU type. The criteria for a nearby HE non-AP STA to decide monitoring one type of PPDU versus the other is out of scope of the standard (a far off HE STA can only receive ER frames, while nearby legacy	2017/1/9 9:42
3055	Abhishek Patil	225	1 11.1.3.10	141		T	N	141.00 11.1.3.10	Only HE STAs can understand an HE Beacon in Extended PPDU format. Such beacon need not carry information that is relevant to non-HE/legacy STAs. This will help reduce the size of HE Beacon.	Add a sentence which implies that an HE beacon may not include fields/IEs that apply only to legacy STAs.	2017/1/9 9:42
3056	Abhishek Patil	225	1 27.2.1	149	48	T	Y	149.48 27.2.1	Need to capture the case when BSS_COLOR is 0	Frame is Inter BSS when BSS_COLOR is 0, Inter-BSS NAV is set	2017/1/9 9:42

3057	Abhishek Patil	225	1 27.2.2	150	42	T	N	150.42 27.2.2	Replace Duration with Duration/ID	Replace Duration field with Duration/ID field - this applies to several instances throughout this section	2017/1/9 9:42
3058	Abhishek Patil	225	1 27.2.2	151	56	E	N	151.56 27.2.2	Move paragraph to the beginning of this section	The description in this paragraph is informative and explains the importance of two NAVs. It should be moved to the beginning of this section.	2017/1/9 9:42
3059	Abhishek Patil	225	1 27.4.1	157	63	T	Y	157.63 27.4.1	Procedure for GCR MU BAR reception is missing	Add procedure upon reception of GCR MU BAR	2017/1/9 9:42
3060	Abhishek Patil	225	1 27.4.1	158	11	T	N	158.11 27.4.1	Current sentence is convoluted. Simplify it.	Change sentence to: "If an HE AP does not receive an HE Capabilities element with the Rx Control Frame To MultiBSS set to 1 from a STA, then the HE AP shall not send a Multi-STA Block Ack frame to the STA if the frame is destined for STAs associated with more than one AP that are part of the same multiple BSSID set."	2017/1/9 9:42
3061	Abhishek Patil	225	1 27.4.1	158	11	T	N	158.11 27.4.1	The AP's condition to responding with M-BA to a multi-BSS STAs is meaningless, since STAs that send HE Trigger-based PPDU get to decide the ack policy. So, the right way is to stop this condition happening by not sending the trigger frame to STAs belonging to multiple BSSs in a multi-BSS setup.	As in the comment	2017/1/9 9:42
3062	Abhishek Patil	225	1 27.4.1	158	17	T	N	158.17 27.4.1	The condition in following sentence is not complete: "An HE non-AP STA that is associated with a nontransmitted BSSID and has indicated support for receiving Control frames with TA set to the Transmitted BSSID (Rx Control Frame To MultiBSS set to 1 in HE Capabilities element).."	Suggest to modify as follows: "An HE non-AP STA that is associated with a nontransmitted BSSID and has indicated support for receiving Control frames receives Control frames from a multi-BSS AP with TA set to the Transmitted BSSID (Rx Control Frame To MultiBSS set to 1 in HE Capabilities element).."	2017/1/9 9:42
3063	Abhishek Patil	225	1 27.4.2	159	16	T	N	159.16 27.4.2	Add the condition for TID, when AckType=1 in the following sentence: "If the Ack Type field is 1 then the Per STA Info field indicates either the acknowledgement of a single MPDU identified by the value of the TID."	If the Ack Type field is 1, and if the TID is less than or equal to 7, or is equal to 15, then the Per STA Info field indicates the acknowledgement of a single MPDU identified by the value of the TID	2017/1/9 9:42
3064	Abhishek Patil	225	1 27.4.3	159	40	T	N	159.40 27.4.3	32-bit BA is used only if '32-bit BA bitmap' is supported per HE capabilities element format	Add the condition as in the comment	2017/1/9 9:42
3065	Abhishek Patil	225	1 27.4.4	160	30	T	N	160.30 27.4.4	Need to add the procedure for the case where SU Multi TID AMPDU soliciting SU PPDU response [for example, whether the response is always using M-BA, and not with Multi-TID BA if it receives a multi-TID frame in legacy PPDU format]	As in the comment	2017/1/9 9:42
3066	Abhishek Patil	225	1 27.4.4.2	160	52	E	N	160.52 27.4.4.2	Reference(10.3.2.11.2) is not correct in the sentence: "An AP that sends a DL MU PPDU that intends to solicit an immediate response carried in an SU PPDU shall set the Ack Policy to Normal Ack (or Implicit BAR) for at most one of the (A-)MPDUs contained in the soliciting DL MU PPDU (see 10.3.2.11.2 (MU acknowledgement procedure for DL MU PPDU in SU format) for an example of this sequence).	Correct the reference to: "10.3.2.10.2"	2017/1/9 9:42
3067	Abhishek Patil	225	1 27.4.4.3	161	13	E	N	161.13 27.4.4.3	Reference(10.3.2.11.3) is not correct in the sentence: "An AP that sends a DL MU PPDU that intends to solicit an immediate response carried in an HE triggerbased PPDU shall set the Ack Policy to MU Ack ('01') for each of the (A-)MPDUs for which it intends to solicit an immediate response (see 10.3.2.11.3 (MU acknowledgement procedure for HE MU PPDU in MU format) for an example of this sequence)."	Correct the reference to: "10.3.2.10.3"	2017/1/9 9:42

3068	Abhishek Patil	225	1 27.4.4.4	161	38	E	N	161.38 27.4.4.4	Reference(10.3.2.11.4) is not correct in the sentence: A non-AP STA that sends an HE trigger-based PPDU as a response to a Basic variant Trigger frame that intends to solicit an immediate response shall set the Ack Policy to Normal Ack/Implicit BAR (see 10.3.2.11.4 (MU acknowledgement procedure for an UL MU transmission) for an example of this sequence).	Correct the reference to: "10.3.2.10.4"		2017/1/9 9:42
3069	Abhishek Patil	225	1 27.4.4.5	162	14	T	N	162.14 27.4.4.5	AP should not be responding to a STA that sent S/A-MPDU (no Multi-TID) using M-BA if the M-BA is individually addressed to the STA.	Modify the sentence as follows: Original text: "The AP shall respond with Ack frame or an individually addressed Multi-STA BlockAck frame to each of the STAs from which a Single MPDU that solicited an immediate response was received, and with a Compressed BlockAck frame or a Multi-STA BlockAck frame to each of the STAs from which an A-MPDU that solicited an immediate response was received, or a Multi-STA BlockAck frame to each of the STA from which a multi-TID A-MPDU that solicited an immediate response was received." Proposed text: "The AP shall respond with Ack frame to each of the STAs from which a Single MPDU that solicited an immediate response was received, and with a Compressed BlockAck frame to each of the STAs from which an A-MPDU that solicited an immediate response was received, or a Multi-STA		2017/1/9 9:42
3070	Abhishek Patil	225	1 27.4.45	162	28	T	N	162.28 27.4.45	The following sentence is not relavent, since there can be only one group addressed M-BA in a DL MU PPDU: "A HE AP should only transmit a group addressed Multi-STA Block-Ack frame in a DL MU PPDU to a non-AP HE STA n on the (broadcast RU) RU (26/52/106/242/484/996) that includes the RU used for receiving the immediate preceding HE trigger-based PPDU from STA n"	Replace the sentence with: "The AP shall not include more than one group addressed M-BA in a DL MU PPDU"		2017/1/9 9:42
3071	Abhishek Patil	225	1 27.5.2.2.2	165	50	T	Y	165.50 27.5.2.2.2	Incorrect field reference. Also, the sentence needs to be simplified.	Change the sentence to: "The MAC address of the transmitted BSSID when dot11MultiBSSIDActivated is true and the Trigger frame is destined for STAs associated with more than one AP that are part of the same multiple BSSID set and have indicated support to received such frames via the Rx Control Frame to MultiBSS field in HE Capabilities element."		2017/1/9 9:42
3072	Abhishek Patil	225	1 27.5.2.2.2	165	60	T	N	165.60 27.5.2.2.2	Current sentence is convoluted. Simplify it.	Change sentence to: "If an HE AP does not receive an HE Capabilities element with the Rx Control Frame To MultiBSS field equal to 1 from a STA, then the HE AP shall not send the Trigger frame to the STA if the frame is destined for STAs associated with more than one AP that are part of the same multiple BSSID set."		2017/1/9 9:42
3073	Abhishek Patil	225	1 27.5.2.6.2	173	38	T	N	173.38 27.5.2.6.2	Condition for when the STA should use random access needs to be defined. In the absence of such restriction there will be a lot of un-necessary random access attempts	As in the comment		2017/1/9 9:42
3074	Abhishek Patil	225	1 27.5.2.6.2	173	38	T	N	173.38 27.5.2.6.2	Trigger frame should be able to indicate whether a pre-associated STA is allowed to respond. May be reserve a special AID, if only associated STAs are allowed to respond, Vs AID0 where any STA is allowed to respond	As in the comment		2017/1/9 9:42

3075	Abhishek Patil	225	1 27.6.2	176	20	T	N	176.20 27.6.2	Current sentence is convoluted. Simplify it.	Change sentence to: "If an HE AP does not receive an HE Capabilities element with the Rx Control Frame To MultiBSS subfield in the HE MAC Capabilities Information field equal to 1 from a STA, then the HE AP shall not send the NDP Announcement frame to the STA if the frame is destined for STAs associated with more than one AP that are part of the same multiple BSSID set."	2017/1/9 9:42
3076	Abhishek Patil	225	1 27.7.3.4	187	5	T	N	187.05 27.7.3.4	There needs to be a time limit up to which a TWT scheduled STA will remaining awake to catch the beacon. A non-AP STA which is power constrained sets up a wake TBTT TWT schedule. The current spec language seems to indicate that the STA will remain awake till it receives the beacons. What if the beacon was lost due to collision?	Specify a time period (in addition to the current language) for which the non-AP STA waits for the beacon. We could use the Nominal Minimum TWT Wake Duration field in TWT element to specify this time.	2017/1/9 9:42
3077	Abhishek Patil	225	1 27.8	188	29	T	N	188.29 27.8	The normative behavior for setting the OMI support Capabilities is missing. Please add the normative behavior on setting this field. In addition there needs to be normative behavior on how the AP indicates ROM changes to a plurality of STAs using the OMI A-Control.	Presentation to be provided which would provide normative text which would require the AP to send OMI and receive acknowladge indication from all STAs before changing the parameters.	2017/1/9 9:42
3078	Abhishek Patil	225	1 27.9.2.2	191	60	T	N	191.60 27.9.2.2	Add the ability for AP to set the OBSS PD Min and Max for managed APs	As in the comment	2017/1/9 9:42
3079	Abhishek Patil	225	1 27.9.2.2	191	60	T	N	191.60 27.9.2.2	Add the ability for AP to disable OBSS PD based reuse	As in the comment	2017/1/9 9:42
3080	Abhishek Patil	225	1 27.9.2.2	191	60	T	N	191.60 27.9.2.2	Add a mechanism for a STA to disable OBSS STAs from applying OBSS PD based reuse on top of the PPDU that it is sending.	As in the comment	2017/1/9 9:42
3081	Abhishek Patil	225	1 27.9.2.2	192	16	T	N	192.16 27.9.2.2	Define the rules for OBSS PD based transmissions on secondary channels. It is missing in the current draft	As in the comment	2017/1/9 9:42
3082	Abhishek Patil	225	1 27.9.2.2	192	16	T	N	192.16 27.9.2.2	Define the interaction between OBSS PD based reuse and SRP based reuse. It is missing in the current draft.	As in the comment	2017/1/9 9:42
3083	Abhishek Patil	225	1 27.11.1	195		T	N	195.00 27.11.1	There are cases (like GCR, FMS) where the traffic is for a limited set of STAs (i.e., not broadcast to all) - in such cases, a STA needs to check the MAC header to see if it is one of the intended recipient.	Add text to clarify that when the STA_ID_LIST indicates 'more than one STA', a STA should check the MAC header to see if it is one of the intended recipient.	2017/1/9 9:42
3084	Abhishek Patil	225	1 27.11.4	196	39	T	N	196.39 27.11.4	Add section reference to setting NAV	Update sentence as follows: "the channel access rules as described in 27.9 (Spatial reuse operation) or reduce power consumption as described in 27.14.1 (Intra-PPDU power save for HE non-AP STAs) or set the NAV as described in 27.2.2 (Updating two NAVs)."	2017/1/9 9:42
3085	Abhishek Patil	225	1 27.11.4	196	43	T	N	196.43 27.11.4	Mention that BSS Color is a 6-bit value	Edit sentence as follows: "An HE STA transmitting an HE Operation element shall select a value in the range 1 to 63 to include in the 6-bit BSS Color subfield of the HE Operation element ..."	2017/1/9 9:42
3086	Abhishek Patil	225	1 27.11.4	196	43	T	N	196.43 27.11.4	Since BSS Color can change when AP determines a prolonged color collision, remove text that states that BSS Color is maintained for the lifetime of the BSS	Remove follow from the sentence: " and shall maintain that single value of the BSS Color subfield for the lifetime of the BSS"	2017/1/9 9:42
3087	Abhishek Patil	225	1 27.11.4	196	49	T	N	196.49 27.11.4	Need to capture the case where the received frame came from an unassociated STA with color value 0	Add text to clarify that this applies only when the received BSS Color value is non-zero	2017/1/9 9:42
3088	Abhishek Patil	225	1 27.11.4	197	8	T	Y	197.08 27.11.4	A non-AP STA may determine BSS Color overlap with a neighboring (OBSS) AP. In such cases, the non-AP STA needs a mechanism to report a color collision to its associated AP.	Define a mechanism where a non-AP STA can autonomously report a color collision to its associated AP.	2017/1/9 9:42

3089	Abhishek Patil	225	1 27.11.5	197	39	T	Y	197.39 27.11.5	HE AP continues to advertise BSS Color even when it has disabled the use of BSS Color. There should be mechanism which requires STAs to use the DURATION/ID value instead of BSS COLOR and TXOP_DURATION field	Add sentence to this section: "An HE AP that has set the BSS Color Disabled value to 1 in HE Operation element shall set the TXOP_DURATION to all 1s."	2017/1/9 9:42
3090	Abhishek Patil	225	1 27.14.1	199	13	E	N	199.13 27.14.1	Fix typo	Fix sentence as follows: "An HE non-AP STA that has dot11IntraPPDUPowerSaveOptionActivated equal to true operates in intra-PPDU power save mode."	2017/1/9 9:42
3091	Abhishek Patil	225	1 27.14.1	199	22	T	N	199.22 27.14.1	Change broadcast to group-addressed	Change broadcast to group-addressed to cover the case of GCR, FMS etc where a sub-set of STAs are addressed by the AP	2017/1/9 9:42
3092	Abhishek Patil	225	1 27.14.2	200	21	E	N	200.21 27.14.2	Clarify sub-field	Add the field name to which the sub-fields belongs to. Suggest changing the sentence as following: "An HE STA that receives a Beacon frame or a management frame containing a TWT element that has a value of 1 in the Broadcast subfield of Control field and a value of 2 in the TWT Flow Identifier subfield of Request Type field may enter the doze state until the start of that TWT SP as described in 27.7.3.3 (Rules for TWT scheduled STA)."	2017/1/9 9:42
3093	Abhishek Patil	225	1 27.14.3.1	200	63	T	N	200.63 27.14.3.1	The operation applies to current TWT SP - the sentence doesn't need to discuss about what happens outside the current TWT SP. Replace "before the next TWT SP" with "in the current TWT SP"	Change sentence as following: "For an HE non-AP STA for which their associated AP set their corresponding bit in the traffic indication virtual bitmap field of the TIM element to 1, if the STA was not served in the current TWT SP then the AP shall set its corresponding bit in the traffic indication virtual bitmap field of the TIM element to 1 in the subsequent TWT SP."	2017/1/9 9:42
3094	Abhishek Patil	225	1 27.16.3.1	207	51	E	N	207.51 27.16.3.1	Keep the field names consistent in the element definition and section description	The element description in section 9.4.2.224 call it dialog token while this section makes reference to a request token. Change reference to 'request token' to 'the token value in the Dialog Token field of the Request element'	2017/1/9 9:42
3095	Abhishek Patil	225	1 28.3.10.8.5	295	23	T	Y	295.23 28.3.10.8.5	There is no terms called Multi-BSSID	Suggest changing the sentence as follows: "For an AP belonging to Multiple BSSID set, the STAID for broadcast to a specific BSS will follow the group addressed AID assignment in the TIM according to the existing rules for TIM assignment in a Multiple BSSID set." Similarly, suggest changing the next bullet to: "For an AP belonging to multiple BSSID set, the STAID for broadcast to all BSS of the AP is et to 2047"	2017/1/9 9:42
3096	Adrian Stephens	225	1 Frontmatter			G	N	Frontmatter	The frontmatter list of dependencies is now out of date with the approval of REVmc, ah and ai.	Update to "IEEE Std 802.11x-2016"	2017/1/9 9:42
3097	Adrian Stephens	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	There is a TBD in normative text. Gets my automatic "no" vote. "The UserInfo field is addressed to a STA if the AID12 subfield is equal to the AID of the STA and the STA is associated with the AP. If the STA is not associated withthe AP, TBD"	Delete cited text.	2017/1/9 9:42

3098 Adrian Stephens	225	1 G.5	427		T	Y	427.00 G.5	The changes to Annex G are incomplete. They look like a sketch of intended changes that nobody quite could be bothered to complete.	There is no change to ht-txop-sequence. Add alternative for he-mu-sequence. Editorial note - use lower-case in Annex G terms. I see both "He-" and "HE-". Add a definition of the terms "ul-mu-sequence" and "cascading-mu-sequence".	2017/1/9 9:42
3099 Adrian Stephens	225	1 C.3	419		T	Y	419.00 C.3	dot11HEOptionImplemented does not appear in a group	Add it to an dot11SMTbase<n> group. If any your dependencies have added objects to dot11SMTbase13 (which thereby breaks the MIB doctor rules) then add to this group. If dot11SMTbase has not been modified by any of your dependencies, then deprecate dot11SMTbase13, copy to ...14, insert the new object. Update the module compliance statement to cite ...base14.	2017/1/9 9:42
3100 Adrian Stephens	225	1	6	50	E	Y	6.50	"high efficient (HE) dual beacon" - wrong term	efficient->efficiency	2017/1/9 9:42
3101 Adrian Stephens	225	1 4.3.14a	9	21	T	Y	9.21 4.3.14a	"An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" -- only does not live at the end of a sentence. Its intent is ambiguous. Ditto at line 27.	Move or delete the only. For example, move it to after the "support" verb.	2017/1/9 9:42
3102 Adrian Stephens	225	1 8.3.5.2.2	15	22	T	Y	15.22 8.3.5.2.2	Why do we need both USER_INDEX and STA_INDEX? They both seem to describe exactly the same concept. As these both support "multi-user" (not "multi-STA") operation, the existing term is preferable.	Throughout the draft, replace all references to STA_INDEX with USER_INDEX.	2017/1/9 9:42
3103 Adrian Stephens	225	1 9.2.4.5.4	20		E	N	20.00 9.2.4.5.4	"For a frame that is carried in a DL HE MU PPDU" REVmc fixed a lot of "For a". This is not done for a frame, it is present in a frame.	Review all "for a" language, and replace with alternatives, such as "in a" where it does not describe an action performed for a frame.	2017/1/9 9:42
3104 Adrian Stephens	225	1 9.2.6.3	22		E	Y	22.00 9.2.6.3	"Aggregated Control (A-Control)" - don't abbvt. Abvn is bd. Because people will randomly choose one of the two forms to use in different contexts. And, given the license to abbreviate, folks will choose to randomly abbrvt. Witness line 49 uses a different abbreviation of this name. And having a field name that embeds its own abbreviation is dumb (by which I mean that REVmc tediously went through and removed them all from .11ad-introduced material).	Either use "Aggregated Control" (preffered) or "A-Control" throughout.	2017/1/9 9:42
3105 Adrian Stephens	225	1 9.2.4.6.4.5	26	52	E	N	26.52 9.2.4.6.4.5	Scaling factor subfield definition is inherently tabular.	Turn value definitions into a table and reference from here.	2017/1/9 9:42
3106 Adrian Stephens	225	1 9.2.4.6.4.6	27	38	E	Y	27.38 9.2.4.6.4.6	"B5 of the UL Power Headroom subfield is set to 1 to indicate that theminimum transmit power for the current MCS is reached by the STA and set to 0 otherwise" Implementers frequently misinterpret this kind of statement.	Separate B5 into its own field and move description of it into its own para.	2017/1/9 9:42
3107 Adrian Stephens	225	1 9.2.4.6.4.6	27	47	E	Y	27.47 9.2.4.6.4.6	"HE DL HE MU" - ha ha. He He. Ho Ho Ho.	Expunge redundant HEs from this and similar occurances.	2017/1/9 9:42
3108 Adrian Stephens	225	1 9.2.4.6.4.7	28	6	E	N	28.06 9.2.4.6.4.7	Table 9-18d can be clarified.	Start by horizontally straddling cells with the same content. Then you might also replace the text of a cell with "See NOTE 1" (or create better names related to the content) and put the text of the condition in the table footer row. "NOTE 1 - Set to 1 if the lower ..."	2017/1/9 9:42
3109 Adrian Stephens	225	1 9.3.1.9.1	34	10	T	Y	34.10 9.3.1.9.1	Bit numbering of the Reserved field is inconsistent	Change reserved to B5-B11.	2017/1/9 9:42

3110	Adrian Stephens	225	1 9.3.1.9.1	34	25	E	Y	34.25 9.3.1.9.1	"data/management frames" 802.11 has a style guide about capitalization, to ensure consistency. Proper names (i.e., names of frames, elements, sub-elements, fields, subfields...) are capitalized. Also "/" is deprecated because it is often ambiguous - for example it change from "or" to "and" when changing from an inclusive condition to an exclusive one.	Change here to "Data or Management frames". Review all use of "/" and replace with "or" or "and" as appropriate. Review all use of "frame", "element", "field", "subfield" and ensure that a term on the left that names the item is upper case.	2017/1/9 9:42
3111	Adrian Stephens	225	1 9.3.1.9.3	36	24	E	N	36.24 9.3.1.9.3	Table 9-24a Block Ack Bitmap subfield length (octets) values redundantly include units.	Remove redundant "octets" in the values	2017/1/9 9:42
3112	Adrian Stephens	225	1 9.3.1.9.7	38	4	T	N	38.04 9.3.1.9.7	"NOTE--When a Multi-STA BlockAck frame is used to acknowledge a management frame, the TID value is set to 15." If not stated elsewhere, this should not be in a NOTE	If not stated elsewhere, remove "NOTE-".	2017/1/9 9:42
3113	Adrian Stephens	225	1 9.3.1.9.7	38	4	E	N	38.04 9.3.1.9.7	According to IEEE-SA style, Multiple NOTES in a subclause are seqentially numbered.	Number line 64 of previous page to "NOTE 1--" and this to "NOTE 2--" Review all uses of "NOTE--" and insert missing numbering.	2017/1/9 9:42
3114	Adrian Stephens	225	1	38	39	E	Y	38.39	"8 to 13" - inconsistent with previous row	change to "8<en-dash>13"	2017/1/9 9:42
3115	Adrian Stephens	225	1	38	30	E	N	38.30	Dashes in numeric ranges should be "en-dash". Minuses in equations should be en-dashes too.	Review all uses of hyphen separating two integers. (see aside below). Replace any such hyphen with an en-dash. One way to find these using a regular expression is to save the .pdf to accessible text (adobe acrobat), then run a regular expression search on it. AntConc is a free tool that I have used to good effect for this purpose, although other tools are available.	2017/1/9 9:42
3116	Adrian Stephens	225	1 9.3.1.20	40	32	T	Y	40.32 9.3.1.20	I don't see that all the fields in Figure 9-51b are defined in the text that follows it.	Review text that follows and ensure a proper definition for the field is provided. For example The AID11 field appears to have no definition. The definition of Disambiguation is not "proper" in the sense that it does not indicate the meaning of the values of the field, only the intended purpose of the field: "The Disambiguation subfield is set to 1 to prevent a VHT STA from wrongly determining it's AID in the HE STA Info."	2017/1/9 9:42
3117	Adrian Stephens	225	1	46	10	G	Y	46.10	Don't use binary values to represent numeric values - ever. REVmc can tell you why.	Replace binary strings with decimal equivalents in Table 9-25f and the text following it. Make similar changes near "B19-B13". Consider making this into a proper named subfield.	2017/1/9 9:42
3118	Adrian Stephens	225	1	47	56	E	N	47.56	Stylistically, the baseline does not include units in equations.	Remove "octets" from the equation. Insert "(in octets)" in the text above, e.g. after "length of the Padding field". Make similar change at 48.05.	2017/1/9 9:42
3119	Adrian Stephens	225	1	53	26	E	N	53.26	"that elicited this Association Response frame is one." spelled-out numeric values are reserved for small quantities "two frames" not the encoding of fields.	Change "one" to "1". Same change at 54.21 and doubtless other places too.	2017/1/9 9:42
3120	Adrian Stephens	225	1	55	26	E	N	55.26	"pre-sent" - typo	"present"	2017/1/9 9:42
3121	Adrian Stephens	225	1	59	56	E	N	59.56	Table format could do with a table header row	Turn header row into a framemaker table header row. Ditto for following table.	2017/1/9 9:42

3122	Adrian Stephens	225	1			T	N		"The NoFragmentation subfield is reserved when transmitted by an HE STA" When transmitted by an HE STA to an HT or VHT non-HE STA, this statement disallows the HE STA from indicating no use of fragmentation within that BA.	Consider adding "to another HE STA" at the end of the cited text.		2017/1/9 9:42
3123	Adrian Stephens	225	1 9.4.2.200	69	28	T	Y	69.28 9.4.2.200	802.11ah defines the TWT element as extensible. .11ax indicates that the body of the element can be repeated for Broadcast, and presumably relies on the Length field to determine the number of such repeats. These are incompatible.	Change the element ID definition to indicate it is not extensible, or add a count subfield in the Control field.		2017/1/9 9:42
3124	Adrian Stephens	225	1 8.4.2.218.1	76	8	T	Y	76.08 8.4.2.218.1	At 67.16, the HE Capabilities element is defined to be extensible. However at 76.08, the parsing of the PPE Thresholds field presumably relies on the Length field. These are incompatible.	Either add a count field for the PPE Thresholds in the frame format, or declare at 67.16 that the element is not extensible.		2017/1/9 9:42
3125	Adrian Stephens	225	1	78	3	T	N	78.03	Table 9-262 needs a real header row	Turn header row into a framemaker table header row.		2017/1/9 9:42
3126	Adrian Stephens	225	1	79	42	T	Y	79.42	The Maximum AMPDU Length Exponent field needs definition	Add one		2017/1/9 9:42
3127	Adrian Stephens	225	1	93	26	E	N	93.26	Lenght - typo	->Length		2017/1/9 9:42
3128	Adrian Stephens	225	1	67	30	T	Y	67.30	There are no element ID definitions in Table 9-77 for the BSS Color Change ... element and the three Quite Time elements.	Add them.		2017/1/9 9:42
3129	Adrian Stephens	225	1 9.4.2.223	96	24	T	Y	96.24 9.4.2.223	"The Vendor Specific Service ID field contains a public unique identifier assigned by the IEEE." Oh no it doesn't. The IEEE doesn't assign anything. The IEEE registration authority assigns various things like OUIs and CIDs - none of which are 2 octets. (OK, they do provide 2 octet EtherTypes, but there's no way they are going to use that resource for this purpose.)	Remove cited sentence here and wherever it occurs. Add sentence mapping how a value provided by the IEEE Registration Authority is mapped into this field. Define which of the namespaces provided by the IEEE Registration Authority can be used for this purpose.		2017/1/9 9:42
3130	Adrian Stephens	225	1	99	22	T	Y	99.22	The frame formats for the new L3 FRAG frames is not defined.	Add a subclause per new Block Ack frame type describing its format.		2017/1/9 9:42
3131	Adrian Stephens	225	1	99	13	E	Y	99.13	"L3 FRAG DELBA" - gratuitous abbreviation & gratuitous shouting Unnecessary abbreviation obscures meaning and encourages inconsistency. Shouting is just BAD MNNRS.	Replace "FRAG" with "Fragmentation" here and globally.		2017/1/9 9:42
3132	Adrian Stephens	225	1	101	26	T	Y	101.26	The additions to the Mesh Peering frames indicate that .11ax is intended to support mesh operation. But I don't see any changes to other mesh operation (sub-)clauses. For example, how does mesh CCAOP work with triggered frame sequences? What kinds of MU can mesh STAs do? How do the two types of mesh power saving work with .11ax OFDMA power-saving?	As HE is largely about an AP orchestrating its STAs, its model of efficient operation is fundamentally different from mesh. I propose that a statement be added in 4.3.14a that an HE STA is not a mesh STA. In that case remove the changes to 9.6.16. Alternatively define the subset of HE features (probably not including triggered operation, OFDMA, UL or DL MU) that can be used by mesh STAs and opdate the mesh (sub-)clauses to describe this operation.		2017/1/9 9:42
3133	Adrian Stephens	225	1	108	1	T	Y	108.01	"the conditions of various contexts" - tells me nada, zip, nuttin'	Delete sentence or make it say something useful.		2017/1/9 9:42

3134	Adrian Stephens	225	1	108	7	T	Y	108.07	"An HE MU PPDU does not carry more than one A-MPDU that contains one or more MPDUs soliciting an immediate response that is not carried in an HE trigger-based PPDU." Don't you just love the English language? Does the final "that" bind to the "HE MU PPDU", the "more than one A-MPDU" or the "one or more MPDUs"?	Make it unambiguous. For example, break similar conditions into a list. Break it into parts. Name conditions.		2017/1/9 9:42
3135	Adrian Stephens	225	1	110	7	E	N	110.07	"QoS Data frames with multiple TIDs which have no HT-immediate block ack agreement" - that/which confusion.	Request the editor reviews all use of "which" and corrects to "that" or ", which" depending on whether it is introducing a condition or a subsidiary clause. (OK, exception for <preposition> which, which can form a condition too).		2017/1/9 9:42
3136	Adrian Stephens	225	1 10.3.1	113	46	T	Y	113.46 10.3.1	"When HE duration-based RTS is disabled, " - how do we know?	Add reference to condition that describes how we can differentiate - e.g. in a MIB variable setting or a BSS operaton element. Ditto at line 50.		2017/1/9 9:42
3137	Adrian Stephens	225	1	114	5	E	N	114.05	The link to 10.3.2.8a is not a hyperlink.	OK, you can reject this comment, because we are notionally commenting on the printed draft. However, please take it from me that you will save yourself (and the REVmd editors) a heap of time to nip this in the bud now. Otherwise you will forever be correcting stale references. Regular expressions are your friend. 6) Search for (regexp) a) Table [0-9]- b) Figure [0-9]- c) Equation [0-9]- d) Clause [0-9] e) [0-9].[0-9].[0-9] etc...		2017/1/9 9:42
3138	Adrian Stephens	225	1 10.12	128	6	T	Y	128.06 10.12	"when the recipient has not indicated support forreception of fragmented A-MSDUs" This is not a well defined term, and occurs in normative text.	Specify the conditions in terms of mib values or on-the-air signalling.		2017/1/9 9:42
3139	Adrian Stephens	225	1	129	23	E	N	129.23	"one or more immediate response" - gramma. And grampa too.	response->responses		2017/1/9 9:42
3140	Adrian Stephens	225	1	149	10	E	Y	149.10	"The use of HCCA and TSPEC are banned at HE STAs." Multiple problems with this. - passive voice and unusual terminology.	Replace with "An HE STA shall not request the use of HCCA, nor shall it respond with data to a QoS CF-Poll frame. The STA shall not generate TXOP Request frames, nor shall it transmit TXOP Response frames." Note in the case of an HE AP with non-HE "clients", not responding to TXOP requets makes it non-QoS STA compliant. And you might want to allow an HE STA associated with a non-HE BSS to use TXOP requests.		2017/1/9 9:42
3141	Adrian Stephens	225	1	149	11	G	N	149.11	The HE MAC introduction would benefit from an explanation of the relationship of this clause to Clauses 10-11.	Add a more general description. For example you might state that an HE STA that supports a feature described in 27, supports that form of the feature if the feature is also described in Clause 10 or 11.		2017/1/9 9:42
3142	Adrian Stephens	225	1	170	26	G	N	170.26	"A NAV is considered in virtual CS" - awkward	"A non-zero value of NAV indicates virtual CS busy" or similar		2017/1/9 9:42
3143	Adrian Stephens	225	1	175	6	E	N	175.06	Figure style - serif font	Change figure font to Arial.		2017/1/9 9:42
3144	Adrian Stephens	225	1	177	43	E	N	177.43	Figure style - color. Figures should be legible in black and white.	Replace use of color, where necessary as a distinction, with hatching or other distinction.		2017/1/9 9:42

3145	Adrian Stephens	225	1	179	26	E	N	179.26	"us" as a unit of measurement should only be used where the character set is limited to ASCII.	Replace all "<number> us" with "<number> "<micro-glyph>s" See: http://www.fileformat.info/info/unicode/char/039c/index.htm	2017/1/9 9:42
3146	Adrian Stephens	225	1	191	16	E	Y	191.16	I look at figure 27-6 and I shudder	Redraw with appropriate fonts. Typically the font size should be no larger than body text, and can be smaller. Bold should not be used unless necessary to distinguish within the figure. The terms in the figure do not match the terms in the surrounding text - e.g. TX_PWR vs TXPWR. Make them match or provide a mapping key in the figure.	2017/1/9 9:42
3147	Adrian Stephens	225	1	28	53	T	N	28.53	"may not" is ambiguous	Replace "may" with "might"	2017/1/9 9:42
3148	Adrian Stephens	225	1			G	Y		Questionable "may" at: 58.25 (may take -> takes) 95.54 (may -> can) 114.08 (may -> might) 115.38 (may -> might) 115.50 (may -> might) 115.64 (may -> can) (ran out of time to complete review...)	Review the 225 instances of "may" and reword (see comment for examples) except where the instance is in baseline, boilerplate, or the single occurence that establishes a permission of some kind.	2017/1/9 9:42
3149	Ahmadreza Hedayat	225	1 4.3.14a	9	48	T	Y	9.48 4.3.14a	There are other MAC features not listed here, such as: optional support of multi-TID A-MPDU, optional support of Aggregated-Control in HTC field, ...	Add the additional listed features	2017/1/9 9:42
3150	Ahmadreza Hedayat	225	1 4.3.14a	9	29	T	Y	9.29 4.3.14a	There are other features not listed here, such as: optional support of preamble-puncturing, optional support of spatial reuse methods, ...	Add the additional listed features	2017/1/9 9:42
3151	Ahmadreza Hedayat	225	1 9.2.4.1.8	19	40	T	Y	19.40 9.2.4.1.8	This setnece is not clear and needs rewritting: "An HE AP indicates that it can set the More Data subfield to 1 by setting the More Data Ack subfield to 1 in the QoS Info field of frames it transmits". A STA indicates that it can set a bit to 1 by setting another bit to 1?	As in the comment	2017/1/9 9:42
3152	Ahmadreza Hedayat	225	1 9.2.4.1.9	19	49	T	Y	19.49 9.2.4.1.9	This setnece is not clear and needs rewritting: "An HE TDLS peer STA indicates that it can set the More Data subfield to 1 by setting the More Data Ack subfield to 1 in the QoS Capability element it transmits."	As in the comment	2017/1/9 9:42
3153	Ahmadreza Hedayat	225	1 9.2.4.6.4.2	24	21	T	Y	24.21 9.2.4.6.4.2	In 28.3.14.2, instead of TRSSI, Target_(RSSI) is used. Suggest to use the same notation here and there.	As in the comment	2017/1/9 9:42
3154	Ahmadreza Hedayat	225	1 9.2.4.6.4.4	25	5	T	Y	25.05 9.2.4.6.4.4	Need to specify the suggested NSS/MCS is for what bandwidth (if 20/40/80/160 MHz) and what specific RU.	As in the comment	2017/1/9 9:42
3155	Ahmadreza Hedayat	225	1 9.2.4.6.4.6	27	15	T	Y	27.15 9.2.4.6.4.6	Why there is a 2-bit rsereved subfield in UL power headroom? If it is for the purpose of byte-alignment, then need to consider that there is a Control ID of 4 bits for the UL power headroom, leading to total of 12 bits.	Either remove the reserved bits, or update the reserved subfield for what it was intended for.	2017/1/9 9:42
3156	Ahmadreza Hedayat	225	1 9.2.4.6.4.8	28	58	T	Y	28.58 9.2.4.6.4.8	Why there is a 6-bit rsereved subfield in RDP? If it is for the purpose of byte-alignment, then need to consider that there is a Control ID of 4 bits for RDP, leading to total of 10 bits.	Either remove the reserved bits, or update the reserved subfield for what it was intended for.	2017/1/9 9:42
3157	Ahmadreza Hedayat	225	1 9.2.4.6.4.7	27	45	T	Y	27.45 9.2.4.6.4.7	Need to specify whether the BQR is reported based on PD or ED, or e.g. current OBSS-PD or its min defalut value etc.	Specify for what thershold and for what type of channel sensing the BQR report is mesured and reported.	2017/1/9 9:42
3158	Ahmadreza Hedayat	225	1 9.2.4.6.4.7	27	64	T	Y	27.64 9.2.4.6.4.7	The BQR could help both UL MU and DL MU, so the following need to be revised: "Bandwidth Query Report used for bandwidth query report operation to assist DL HE MU transmission"	"Bandwidth Query Report used for bandwidth query report operation to assist DL HE MU transmission and scheduling of UL MU transmission"	2017/1/9 9:42

3159	Ahmadreza Hedayat	225	1 9.2.4.6.4.7	28	6	T	Y	28.06 9.2.4.6.4.7	Table 9-18d is too verbose. The content of this table can be described in a simpler way such as: "Set B_i to 1 if the i_th lower frequency 20MHz channel is available, set to 0 if the 20MHz channel is not available or if its channel availability is not measured".	Suggest to use a simpler description of the content of this table		2017/1/9 9:42
3160	Ahmadreza Hedayat	225	1 9.2.4.6.4.8	28	58	T	Y	28.58 9.2.4.6.4.8	In HE, a STA may grant a RD to its AP and the AP may use it to schedule UL MU transmission, which may include the STA or not. So there should be additional indications where a STA can indicate whether RD grant shall not be used for UL MU transmission, and if so whether the UL MU transmissions shall include the STA (i.e. the AP shall serve the STA during UL MU).	As in the comment		2017/1/9 9:42
3161	Ahmadreza Hedayat	225	1 9.3.1.9.1	34	28	T	Y	34.28 9.3.1.9.1	It is not clear why an AP can set the RA to the broadcast address in this case: "An HE AP that transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields sets the RA field to the address of the recipient STA that requested the Block Ack or to the broadcast address." It seems that setting the RA to "the address of the recipient STA that requested the Block Ack" helps unintended STAs in not unnecessarily process the MBA.	As in the comment		2017/1/9 9:42
3162	Ahmadreza Hedayat	225	1 9.3.1.9.7	38	54	T	Y	38.54 9.3.1.9.7	The content of the third colum of the last row of Table 9-24b seems strange; "N/A" is "Not present". Either set both either to "N/A" or set "Block Ack Bitmap" to "Not prsent".	As in the comment		2017/1/9 9:42
3163	Ahmadreza Hedayat	225	1 9.3.1.23	41	65	T	Y	41.65 9.3.1.23	Looks like this sentence needs more description for the case of a multi-BSSID AP: "The TA field value is the address of the STA transmitting the Trigger frame."	Describe what address a multi-BSSID AP shall set this value to when the AP addresses STAs from one/several BSS		2017/1/9 9:42
3164	Ahmadreza Hedayat	225	1 9.3.1.23	46	6	T	Y	46.06 9.3.1.23	Table 9-25f and the following description is unnecessarily verbose. It'd be more srighforward if similar to the tables 28-3, 28-4, and 28-5 the value of B19-B13 is associated with a set of tone indices.	Follow the same principle as clause 28 (HE PHY) and replace this table and the following description with a srighforward table that maps the value of B19-B13 to a set of tone indices.		2017/1/9 9:42
3165	Ahmadreza Hedayat	225	1 9.3.1.23	47	7	T	Y	47.07 9.3.1.23	There is no descripton of the subfields within SS Allocation.	Add the description and encoding of the two subfields within SS Allocation subfield.		2017/1/9 9:42
3166	Ahmadreza Hedayat	225	1 9.3.1.23.4	49	28	T	Y	49.28 9.3.1.23.4	This sentence needs more description for the case of a multi-BSSID AP: "NOTE--The TA field value is the address of the STA transmitting the MU-RTS frame."	Describe what address a multi-BSSID AP shall set this value to when the AP addresses STAs from one/several BSS		2017/1/9 9:42

3167	Ahmadreza Hedayat	225	1 9.3.1.23.1	48	23	T	Y	48.23 9.3.1.23.1	The subfields listed in the Trigger-dependent User Info are all the attributes that are relevent to all the STAs in a Trigger frame. For instance the MPDU MU Spacing factor would be applicable to all STAs within a Triger frame equally and there would be no logic for an AP to set this value differently across the STAs. Similarly the TID Aggregation limit; if AP wishes to establish a TID limit would better to do it for all STAs. Also, all the discussions in the TGax related to the AC Preference Level and Preferred AC where related to such preference being established for all teh STAs with a Trigger frame ... There is little benefit to have these subfields in the User Info and better if these subfields appear in a Trigger -dependent Common Info.	As in the comment		2017/1/9 9:42
3168	Ahmadreza Hedayat	225	1 9.3.1.23.3	49	60	T	Y	49.60 9.3.1.23.3	Missing the setting of Trigger Type.	Add: "The Trigger Type subfield is set to 2 to indicate MU-BAR variant."		2017/1/9 9:42
3169	Ahmadreza Hedayat	225	1 9.3.1.23.2	49	33	T	Y	49.33 9.3.1.23.2	Missing the setting of Trigger Type.	Add: "The Trigger Type subfield is set to 1 to indicate Beamforming Report Poll variant."		2017/1/9 9:42
3170	Ahmadreza Hedayat	225	1 9.3.1.23.1	48	23	T	Y	48.23 9.3.1.23.1	Missing the setting of Trigger Type.	Add: "The Trigger Type subfield is set to 0 to indicate Basic variant."		2017/1/9 9:42
3171	Ahmadreza Hedayat	225	1 9.3.1.23.5	51	20	T	Y	51.20 9.3.1.23.5	Missing the setting of Trigger Type.	Add: "The Trigger Type subfield is set to 4 to indicate BSRP variant."		2017/1/9 9:42
3172	Ahmadreza Hedayat	225	1 9.3.1.23.6	51	33	T	Y	51.33 9.3.1.23.6	Missing the setting of Trigger Type.	Add: "The Trigger Type subfield is set to 5 to indicate GCR MU-BAR variant."		2017/1/9 9:42
3173	Ahmadreza Hedayat	225	1 9.3.1.23.7	51	58	T	Y	51.58 9.3.1.23.7	Missing the setting of Trigger Type.	Add: "The Trigger Type subfield is set to 6 to indicate BQRP variant."		2017/1/9 9:42
3174	Ahmadreza Hedayat	225	1 9.4.1.62	57	15	T	Y	57.15 9.4.1.62	Is it "Set to 2 for CQI feedback"? Or "Set to 2 for CQI-only feedback"?	As in the comment		2017/1/9 9:42
3175	Ahmadreza Hedayat	225	1			T	Y		CHECK if TWT clauses require additional features			2017/1/9 9:42
3176	Ahmadreza Hedayat	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2	Missing definition and encoding of "Maximum AMPDU Length Exponent" in Table 9-262z	Add the missing items		2017/1/9 9:42
3177	Ahmadreza Hedayat	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	Duplicated sentences in this paragraph and the next one.	Unify the two paragraphs or remove one.		2017/1/9 9:42
3178	Ahmadreza Hedayat	225	1 9.4.2.219	91	47	T	Y	91.47 9.4.2.219	It is not cear why a setting in HE Opration parameters is related to the intended recepinets of an HE PPDU as in "except that a value of 0 in this field is used if one or more intended recipient STAs of an HE PPDU is not a member of a transmitting STA's BSS"	Either remove the sentence or describe how an AP can change this setting often		2017/1/9 9:42
3179	Ahmadreza Hedayat	225	1 9.4.2.222	95	22	T	Y	95.22 9.4.2.222	In this clause the refrences are to an HE AP and better to do the same in this one: "The Color Switch Countdown field is set to the number of TBTTs that remain until the STA sending the BSS Color Change Announcement element switches to the new BSS Color."	"The Color Switch Countdown field is set to the number of TBTTs that remain until the HE AP sending the BSS Color Change Announcement element switches to the new BSS Color."		2017/1/9 9:42
3180	Ahmadreza Hedayat	225	1 9.7.3	110	50	T	Y	110.50 9.7.3	BQRP and GCR MU-BAR should be added to: "One or more Trigger frames where the Trigger Type field is Basic Trigger, MU-BAR, or BSRP."	"One or more Trigger frames where the Trigger Type field is Basic Trigger, MU-BAR, GCR MU-BAR, BSRP or BQRP."		2017/1/9 9:42
3181	Ahmadreza Hedayat	225	1 9.7.3	111	24	T	Y	111.24 9.7.3	Should BQRP be added to: "If the A-MPDU is transmitted by an AP, one or more Trigger frames where the Trigger Type field is Basic Trigger or BSRP "?	"If the A-MPDU is transmitted by an AP, one or more Trigger frames where the Trigger Type field is Basic Trigger, BSRP, and BQRP."		2017/1/9 9:42
3182	Ahmadreza Hedayat	225	1 10.3.2.4	114	51	T	Y	114.51 10.3.2.4	This is not clear and confusing: "If the STA is an HE STA, the STA is a TXOP holder, and the frame is solcited by the STA, then the STA shall not update its NAV."	Rewrite.		2017/1/9 9:42

3183	Ahmadreza Hedayat	225	1 10.3.2.10.2	119	55	T	Y	119.55 10.3.2.10.2	Add GCR MU-BAR to: "An AP may use an MU-BAR variant Trigger frame to solicit acknowledgment frames ..."	"An AP may use an MU-BAR variant or GCR MU-BAR variant Trigger frame to solicit acknowledgment frames ..."		2017/1/9 9:42
3184	Ahmadreza Hedayat	225	1 10.3.2.10.2	119	22	T	Y	119.22 10.3.2.10.2	Add GCR MU-BAR to: "A non-AP STA that is the recipient, within an HE MU PPDU, of a QoS Data frame or QoS Null frame that solicits an immediate response with Ack Policy equal to MU Ack in the QoS Control field, of an MU-BAR frame, ..."	"A non-AP STA that is the recipient, within an HE MU PPDU, of a QoS Data frame or QoS Null frame that solicits an immediate response with Ack Policy equal to MU Ack in the QoS Control field, of an MU-BAR frame, or GCR MU-BAR frame, ..."		2017/1/9 9:42
3185	Ahmadreza Hedayat	225	1 10.7.6.5.2	123	38	T	Y	123.38 10.7.6.5.2	Should DCM be included in this sentence, such that an AP transmits a <HE-MCS, NSS> tuple with DCM=1 when the tuple and DCM is supported by all the recipients etc? "An AP that transmits a Multi-STA BlockAck frame in a non-HT PPDU, HT PPDU, VHT PPDU or HE PPDU shall use a rate, HT-MCS, <VHT-MCS, NSS> tuple or <HE-MCS, NSS> tuple, respectively, that is supported by all the recipients."? Similarly P123L33.	Rewrite it to include DCM.		2017/1/9 9:42
3186	Ahmadreza Hedayat	225	1 10.9	127	22	T	Y	127.22 10.9	"A value of 1 in the Control ID subfield when the transmitting STA changes the receive operating mode, as described in 27.8 (Operating mode indication)."	"A value of 1 in the Control ID subfield when the transmitting STA changes the receive and/or transmit operating mode, as described in 27.8 (Operating mode indication)." or "A value of 1 in the Control ID subfield when the transmitting STA changes the operating mode, as described in 27.8 (Operating mode indication)."		2017/1/9 9:42
3187	Ahmadreza Hedayat	225	1 10.22.2.3	130	1	T	Y	130.01 10.22.2.3	Looks like regardless of receiving and ACK the STA resumes EDCAF backoff counter: "When an HE STA successfully receives the corresponding acknowledgement frame in response to the MPDU sent in HE trigger based PPDU, the backoff for the associated EDCAF resumes the backoff counter countdown. When an HE STA does not receive the corresponding acknowledgement frame in response to the MPDU sent in HE trigger based PPDU, the backoff for the associated EDCAF resumes the backoff counter count-down."	Rewrite. "An HE STA resumes the backoff counter countdown for the associated EDCAF after transmission of an MPDU in HE trigger based PPDU."		2017/1/9 9:42
3188	Ahmadreza Hedayat	225	1 10.22.2.8	133	28	T	Y	133.28 10.22.2.8	Also when the Duration value is non-zero, an HE STA may include frames that solicit an acknowledgment response frame but no other response frames.	"When the Duration field value in the MAC header of an HE trigger-based PPDU is set to 0, the HE trigger-based PPDU shall not include any frame that solicit a control response frame from the AP. When the Duration field value in the MAC header of an HE trigger-based PPDU is non-zero, the HE trigger-based PPDU shall not include any frame that solicit a control response frame from the AP other than Ack, Block-Ack, Multi-STA Block-Ack." Or similar to the language for an RD responder in 10.28.4 (P136L60 of 11ax D1.0): "An HE STA shall not transmit an MPDU (either individually or aggregated within an A-MPDU) in a trigger-based PPDU that is not one of the following frames: Ack, multi-STA BlockAck, QoS data, management"		2017/1/9 9:42

3189	Ahmadreza Hedayat	225	1 27.2.1	149	24	T	Y	149.24 27.2.1	Calrify the case where the STA has received a Color Change Ano. and color switch countdown is not over yet: "The RXVECTOR parameter BSS_COLOR in the received PPDU carrying the frame is the same as the BSS color announced by the AP to which the STA is associated"	As in the comment	2017/1/9 9:42
3190	Ahmadreza Hedayat	225	1 27.2.1	149	38	T	Y	149.38 27.2.1	Calrify the case where the STA has received a Color Change Ano. and color switch countdown is not over yet: "The value of RXVECTOR parameter PARTIAL_AID [5:8] in the received VHT PPDU with the RXVECTOR parameter GROUP_ID equal to 63 is the same as the partial BSS color announced by the AP to which the STA is associated when the Partial BSS Color field in the most recently received HE Operation element is 1."	As in the comment	2017/1/9 9:42
3191	Ahmadreza Hedayat	225	1 9.7.3	109	3	T	Y	109.03 9.7.3	There should be a restriction on aggregation of ACK/BA/M-BA for a STA with a Trigger frame that incudes a User Info for the same STA. Without this restriction, the STA might realize that it has to do a retransmission (from ACK/BA/..) and it has to do the retransmission a SIFS after the current PPDU that includes the ACK/BA and Trigger frames. Suggest to to modify the text in P110L47 third column to indicate that at most one of Basic Trigger frame or an ACK/BA/M-BA exists between two HE STAs.	As in the comment	2017/1/9 9:42
3192	Ahmadreza Hedayat	225	1 27.2.2	151	56	T	Y	151.56 27.2.2	This explanation that highlights the benefits of two-NAV setting is more useful to be at the beginning of 27.2.2, or under a general subclause at the beginning of 27.2.	As in the comment	2017/1/9 9:42
3193	Ahmadreza Hedayat	225	1 27.2.3	152	14	T	Y	152.14 27.2.3	The spec does not require an HE AP to send the MU EDCA Parameter set, hence an HE STA may have not received such set at all.	"An UL MU capable non-AP HE STA that receives a Basic Trigger frame that contains a Per User Info field with the AID of the STA, and that receives an immediate response from the AP for the transmitted Triggerbased PPDU, shall update its CWmin[AC], CWmax[AC], AIFSN[AC] and HEMUEDCATimer[AC] state variables to the values contained in the most recently received MU EDCA Parameter Set element sent by the AP to which the STA is associated, if any, for all the ACs from which QoS Data frames were transmitted in the HE trigger-based PPDU."	2017/1/9 9:42
3194	Ahmadreza Hedayat	225	1 27.2.3	152	19	T	Y	152.19 27.2.3	"Each HEMUEDCATimer[AC] shall uniformly count down to 0 when its value is nonzero."	"In an HE STA, each HEMUEDCATimer[AC] shall uniformly count down to 0 when its value is nonzero."	2017/1/9 9:42
3195	Ahmadreza Hedayat	225	1 27.9.1	190	11	T	Y	190.11 27.9.1	SR PPDU is not defined: "When the conditions specified in 27.9 (Spatial reuse operation) are met that allow the transmission of an SR PPDU, an HE STA may transmit an SR PPDU to either an HE STA or a non-HE STA."	Define SR PPDU. Or change SR PPDU to PPDU since there seems "SR" indicates no attributes of the PPDU and rather the channel access method for which the PPDU is being sent.	2017/1/9 9:42
3196	Ahmadreza Hedayat	225	1 27.9.1	190	22	T	Y	190.22 27.9.1	In "... not update its NAV timers based on frames carried in the PPDU ...", for consistency, it should be stated that the STA may not update its NAV based on TXOP field in the HE SIG-A if present	As in the comment	2017/1/9 9:42
3197	Ahmadreza Hedayat	225	1 27.9.1	192	4	T	Y	192.04 27.9.1	SR mode is not defined: "A STA can select an OBSS_PDlevel during its operation under SR mode." Also in P192L7.	Revise or define SR mode.	2017/1/9 9:42

3198	Ahmadreza Hedayat	225	1 27.9.1	191	62	T	Y	191.62 27.9.1	The relationship between OBSS_PD_min with OBSS_PD_min_default is not established. The spec needs to clarify what is the relationship between OBSS_PD_min with OBSS_PD_min_default.	As in the comment	2017/1/9 9:42
3199	Ahmadreza Hedayat	225	1 27.9.1	191	62	T	Y	191.62 27.9.1	The relationship between OBSS_PD_max with OBSS_PD_max_default is not established. The spec needs to clarify what is the relationship between OBSS_PD_max with OBSS_PD_max_default.	As in the comment	2017/1/9 9:42
3200	Ahmadreza Hedayat	225	1 27.9.1	191	1	T	Y	191.01 27.9.1	It is not clear from this clause whether the STA or the AP decides the value of OBSS_PD_min/OBSS_PD_max. Figure 27.6 shows the relationship of OBSS_PD_min and OBSS_PD_max relatively and it does not establish the values of OBSS_PD_min/OBSS_PD_max. The text later introduces OBSS_PD_min_default/OBSS_PD_max_default, but it does not clarify states whether and how an AP or a STA decides on OBSS_PD_min/OBSS_PD_max values.	Clarify whetehr and how a STA or an AP should choose the OBSS_PD_min/OBSS_PD_max values. State whether a non-AP STA shall obtain operating OBSS_PD_min and OBSS_PD_max from its associated AP.	2017/1/9 9:42
3201	Ahmadreza Hedayat	225	1 27.4.1	157	61	T	Y	157.61 27.4.1	Include GCR MU-BAR as well: "An HE STA that receives a BlockAckReq frame or a MU-BAR variant Trigger frame that contains a Compressed BlockAckReq variant in the User Info field addressed to the STA shall respond with a BlockAck frame as defined in 10.24.7 (HT-immediate block ack extensions) or a Multi-STA BlockAck frame as defined in 27.4 (Block acknowledgement).". Also similarly in P158L2: "An HE STA that receives a Multi-TID BlockAckReq frame or a MU-BAR variant Trigger frame that contains a Multi-TID BlockAckReq variant in the User Info field addressed to the STA shall respond with a Multi-STA BlockAck frame ..."	"An HE STA that receives a BlockAckReq frame, a MU-BAR variant Trigger frame that contains a Compressed BlockAckReq variant in the User Info field addressed to the STA, or a GCR MU-BAR variant Trigger frame that contains a Compressed BlockAckReq variant in the Common Info field shall respond with a BlockAck frame as defined in 10.24.7 (HT-immediate block ack extensions) or a Multi-STA BlockAck frame as defined in 27.4 (Block acknowledgement)." and for P158L2: "An HE STA that receives a Multi-TID BlockAckReq frame, a MU-BAR variant Trigger frame that contains a Multi-TID BlockAckReq variant in the User Info field addressed to the STA, or a GCR MU-BAR variant Trigger frame that contains a Multi-TID BlockAckReq variant in the Common Info field shall respond with a Multi-STA BlockAck frame ..."	2017/1/9 9:42
3202	Ahmadreza Hedayat	225	1 27.4.2	158	62	T	Y	158.62 27.4.2	"... contained in the BlockAckReq frame ..."	"... contained in the BlockAckReq, MU-BAR or GCR MU-BAR frame ..."	2017/1/9 9:42
3203	Ahmadreza Hedayat	225	1 27.4.2	158	37	T	Y	158.37 27.4.2	"... that MPDUs to indicate the successful reception of that MPDU."	"... that MPDU to indicate the successful reception of that MPDU."	2017/1/9 9:42
3204	Ahmadreza Hedayat	225	1 27.4.3	159	62	T	Y	159.62 27.4.3	"A recipient that is the intended receiver of an (multi-TID) A-MPDU, (multi-TID) BlockAckReq frame or MU-BAR variant Trigger frame that solicits an immediate BlockAck frame response for each TID shall follow the rules ..."	"A recipient that is the intended receiver of an (multi-TID) A-MPDU, (multi-TID) BlockAckReq frame, MU-BAR or BGR MU-BAR variant Trigger frame that solicits an immediate BlockAck frame response for each TID shall follow the rules ..."	2017/1/9 9:42

3205	Ahmadreza Hedayat	225	1 27.4.4	160	37	T	Y	160.37 27.4.4	"An HE AP may solicit BlockAck frame responses from multiple HE STAs using a MU-BAR variant Trigger frame. If an MU-BAR variant Trigger frame is aggregated in an A-MPDU then no other BlockAckReq frames shall be present in the same A-MPDU... (Multi-TID) BlockAckReq, BlockAckReq, and MU-BAR variant Trigger frames indicate the length of the soliciting block ack responses according to the FN settings defined in 9.3.1.9 (BlockAck frame format)."	"An HE AP may solicit BlockAck frame responses from multiple HE STAs using an MU-BAR variant Trigger frame or a GCR MU-BAR variant Trigger frame. If an MU-BAR variant Trigger frame or a GCR MU-BAR variant Trigger frame is aggregated in an A-MPDU then no other BlockAckReq frames shall be present in the same A-MPDU... (Multi-TID) BlockAckReq, BlockAckReq, MU-BAR variant Trigger and GCR MU-BAR variant Trigger frames indicate the length of the soliciting block ack responses according to the FN settings defined in 9.3.1.9 (BlockAck frame format)."	2017/1/9 9:42
3206	Ahmadreza Hedayat	225	1 27.4.4	160	57	T	Y	160.57 27.4.4	Does this apply to all AMPDUs or all except the one set to Normal ACK? "The A-MPDUs carried in the soliciting DL MU PPDU shall not contain an Action frame or a MMPDU that solicits a response."	As in the comment	2017/1/9 9:42
3207	Ahmadreza Hedayat	225	1 10.24.10.3	134	26	T	Y	134.26 10.24.10.3	"Upon reception of the BlockAck frame from one or more HE STAs, the originator may send an MU-BAR frame to one or more other HE STAs that have a GCR block ack agreement, and this process may be repeated multiple times."	"Upon reception of the BlockAck frame from one or more HE STAs, the originator may send an MU-BAR variant Trigger frame or a GCR MU-BAR variant Trigger frame to one or more other HE STAs that have a GCR block ack agreement, and this process may be repeated multiple times."	2017/1/9 9:42
3208	Ahmadreza Hedayat	225	1 10.24.10.3	134	39	T	Y	134.39 10.24.10.3	"When an HE STA receives an MU-BAR frame with User Identifier subfield set to the AID of the HE STA, the HE STA shall transmit BlockAck frame in the indicated resource unit SIFS after the Trigger frame. The BlockAck frames report the HE STA's reception status of the block of group addressed frames requested by the MU-BAR frame."	"When an HE STA receives an MU-BAR variant Trigger frame or a GCR MU-BAR variant Trigger frame with User Identifier subfield set to the AID of the HE STA, the HE STA shall transmit Ack, BlockAck, or Multi-STABlockAck frame carried in the HE trigger-based PPDU sent as a response SIFS after the Trigger frame. The BlockAck frames report the HE STA's reception status of the block of group addressed frames requested by the MU-BAR variant Trigger frame or the GCR MU-BAR variant Trigger frame."	2017/1/9 9:42
3209	Ahmadreza Hedayat	225	1 10.24.10.3	135	35	T	Y	135.35 10.24.10.3	"After completing the BlockAckReq or MU-BAR and BlockAck frame exchanges ..."	"After completing the BlockAckReq frame, MU-BAR variant Trigger frame, or GCR MU-BAR variant Trigger frame and BlockAck frame exchanges ..."	2017/1/9 9:42
3210	Ahmadreza Hedayat	225	1 10.24.10.3	135	53	T	Y	135.53 10.24.10.3	"An originator may also send an MU-BAR frame with AID12 fields set to AIDs of HE STAs that transmit the BlockAck frames and the Block Ack Starting Sequence Control subfield set to the Sequence Number field of the earliest A-MSDU of the GCR stream that has not been acknowledged by all group members and has not expired due to lifetime limits, in order to minimize buffering latency at receivers in the GCR group."	"An originator may also send an MU-BAR variant Trigger frame or a GCR MU-BAR variant Trigger frame with the AID12 fields set to the AIDs of HE STAs that are expected to transmit the BlockAck frames and the Block Ack Starting Sequence Control subfield set to the Sequence Number field of the earliest A-MSDU of the GCR stream that has not been acknowledged by all group members and has not expired due to lifetime limits, in order to minimize buffering latency at receivers in the GCR group."	2017/1/9 9:42
3211	Ahmadreza Hedayat	225	1 10.24.10.3	136	3	T	Y	136.03 10.24.10.3	"If the beginning of such reception does not occur during the first slot time following a SIFS, then the originator may perform error recovery by retransmitting a BlockAckReq frame or an MU-BAR frame PIFS after the previous BlockAckReq frame or an MU-BAR frame when both of the following conditions are met"	"If the beginning of such reception does not occur during the first slot time following a SIFS, then the originator may perform error recovery by retransmitting a BlockAckReq fram, an MU-BAR variant Trigger frame, or a GCR MU-BAR variant Trigger frame PIFS after the previous BlockAckReq frame or an MU-BAR variant Trigger frame or a GCR MU-BAR variant Trigger frame when both of the following conditions are met ..."	2017/1/9 9:42

3212	Ahmadreza Hedayat	225	1 10.24.10.3	136	11	T	Y	136.11 10.24.10.3	"The remaining duration of the GCR TXOP is longer than the total time required to retransmit the GCR BlockAckReq frame or an MU-BAR frame plus one slot time"	"The remaining duration of the GCR TXOP is longer than the total time required to retransmit the GCR BlockAckReq frame, an MU-BAR variant Trigger frame, or a GCR MU-BAR variant Trigger frame plus one slot time"	2017/1/9 9:42
3213	Ahmadreza Hedayat	225	1 27.4	161	10	T	Y	161.10 27.4	Both S-MPDU and single-MPDU are used in this clause (P162L10, P161L56, etc). Suggest to use S-MPDU throughout this clause.	As in the comment	2017/1/9 9:42
3214	Ahmadreza Hedayat	225	1 27.4.4.5	162	20	T	Y	162.20 27.4.4.5	"The control response frames for each STA shall be sent in the allocated RU that is identified by the AID of each STA." This is not clear; what is the relation between "allocated RU" and "AID of a STA"? Also there would be one control response frame for each STA, so it should be "The Control response frame for each STA ..."	As in the comment	2017/1/9 9:42
3215	Ahmadreza Hedayat	225	1 27.5.2.6	172	33	T	Y	172.33 27.5.2.6	Identfying each RU for RA by a subfield with AID12=0 is too redundant particularly considering tha 5-byte (out of 6-byte) User Info would practically be the same for all RA RUs. Suggest to allow indication of multiple RA RUs using a single Per-User Info. "An RU for random access shall be identified by an AID12 subfield equal to 0 contained in a User Info field of a Trigger frame."	As in the comment	2017/1/9 9:42
3216	Ahmadreza Hedayat	225	1 9.3.1.23.1	48	20	T	Y	48.20 9.3.1.23.1	Allow a way to indicate the number of RA RUs available in a Trigger frame within the Common-Info field. This helps a STA's implementation/operation.	E.g. add a Trigger-dependent Common Info field for the Basic Trigger frame with a subfield that indicated the number of RA RUs.	2017/1/9 9:42
3217	Ahmadreza Hedayat	225	1 27.8.3	189	18	T	Y	189.18 27.8.3	Should there be a similar sentence for TOM as this sentence from ROM 27.8.2: "The ROM indication allows the OMI initiator to adapt the maximum operating channel width and/or the maximum number of spatial streams it can receive from the OMI responder."	As in the comment	2017/1/9 9:42
3218	Ahmadreza Hedayat	225	1 27.8.2	188	60	T	Y	188.60 27.8.2	"When the OMI initiator changes an OMI parameter from lower to higher, it should make the change for that parameter either after ACK Timeout has expired or after receiving the immediate acknowledgement from the OMI responder." Does an OMI initiator has to wait per this clause? Or if it can perform the transition from lower to higher within a SIFS it should be allowed to do so.	As in the comment	2017/1/9 9:42
3219	Ahmadreza Hedayat	225	1 27.8.2	189	1	T	Y	189.01 27.8.2	There should be a distiction between higher-to-lower vs lower-to-higher BWISS change for this sentence: "If an OMI mode change is reported during a TXOP then the change should occur at least after that TXOP."	As in the comment	2017/1/9 9:42
3220	Ahmadreza Hedayat	225	1 27.8.2	189	8	T	Y	189.08 27.8.2	Needs rewrtting: "After transmitting the acknowledgement frame immediate response immediate acknowledgement for the frame containing the OMI A-Control field, ..."	"After transmitting the acknowledgement frame immediate response for the frame containing the OMI A-Control field, ..."?	2017/1/9 9:42
3221	Ahmadreza Hedayat	225	1 27.8.2	189	54	T	Y	189.54 27.8.2	" Shall indicate a channel width in the RU Allocation subfield of the Per User Info field of a Trigger frame, containing the AID of the OMI initiator, that is less than or equal to the value specified in the Channel Width subfield of the OMI A-Control field received by the OMI initiator". The relationship between the Channel Width subfield and the RU Allocation subfield should be specified more percisely.	"Shall indicate a channel width in the RU Allocation subfield of the Per User Info field of a Trigger frame, containing the AID of the OMI initiator, that is within the bandwidth specified by the Channel Width subfield of the OMI A-Control field received by the OMI initiator"	2017/1/9 9:42

3222	Ahmadreza Hedayat	225	1 27.9.2.1	190	30	T	Y	190.30 27.9.2.1	There should be an exception for response frames (e.g. CTS, ACK, and BA etc) here. Otherwise a STA ignores an OBSS TXOP whose intended recipient happens to be nearby, e.g. within -62dBm or -72dBm reach. This causes significant interference to the OBSS recipient which could have been ignored if response frames where excluded from OBSS-PD rule.	Suggest to add exceptions for any response frame such as CTS, ACK, BA etc. The exception could be similar to the currently-listed exceptions for Public Action frames.		2017/1/9 9:42
3223	Ahmadreza Hedayat	225	1 27.5.1.2	163	3	T	Y	163.03 27.5.1.2	It'd be worthwhile to clarify the restrictions on group-addressed MPDUs across RUs; e.g. only one RU can carry MPDUs with broadcast address, and at most one RU for a given group-address ID etc. "The Type and Subtype subfields in the Frame Control field and address type (individually addressed or group addressed) of MPDUs may be different across A-MPDUs in different RUs within a same HE MU PPDU."	As in the comment		2017/1/9 9:42
3224	Ahmadreza Hedayat	225	1 27.5.1.2	163	43	T	Y	163.43 27.5.1.2	If a STA gain access via RA and sends BQR then it's an unsolicied BQR and should be gathered in the upper clause P163L26: "... the STA shall follow the rules defined in 27.5.2.6 (UL OFDMA-based random access) to gain access to a random RU and generate the HE trigger-based PPDU when the Trigger frame contains one or more random RU(s)."	As in the comment		2017/1/9 9:42
3225	Ahmadreza Hedayat	225	1 27.5.2.2.2	167	15	T	Y	167.15 27.5.2.2.2	"The AP may assign any value defined in Table 9-25i (Preferred AC subfield encoding) in the AC Preference Level subfield in the Trigger Dependent User Info field to 1 for an HE STA and identified by the AID12 subfield of the User Info field of a Basic Trigger frame." This paragraph needs rewritting; the Preferred AC subfield (table 9-25i) is a 2-bit subfield and the doesn't related to AC Preference Level subfield with 1 bit.	As in the comment		2017/1/9 9:42
3226	Ahmadreza Hedayat	225	1 27.5.2.2.2	167	15	T	Y	167.15 27.5.2.2.2	There should be a behavior for the AP in what value to set for the Preferred AC subfield, and the Preferred AC subfield should be set according to the winning AC etc.	As in the comment		2017/1/9 9:42
3227	Ahmadreza Hedayat	225	1 27.5.2.2.2	167	38	T	Y	167.38 27.5.2.2.2	These sentence "An AP may use any AC for sending a PPDU that contains only Trigger frames." needs to be combined with the following paragraph: "An AP may send the Trigger frame using any access category and follows the rules defined in 10.22.2 (HCF contention based channel access (EDCA)) for obtaining and sharing the TXOP."	As in the comment		2017/1/9 9:42
3228	Ahmadreza Hedayat	225	1 27.5.2.2.2	166	49	T	Y	166.49 27.5.2.2.2	Better to refer to "... HE variant HT Control fields with an UL MU Response Scheduling A-Control subfield" as "UL MU Response Scheduling A-Control field" as in the rest of 27.5.	As in the comment		2017/1/9 9:42
3229	Ahmadreza Hedayat	225	1 27.5.2.3	167	58	T	Y	167.58 27.5.2.3	Cover the case of random access and AID=0 here as well: "If the STA is not associated with the AP, TBD."	As in the comment		2017/1/9 9:42
3230	Ahmadreza Hedayat	225	1 27.5.2.3	167	58	T	Y	167.58 27.5.2.3	"If the STA is not associated with the AP, TBD." Specify the TBD.	As in the comment		2017/1/9 9:42

3231	Ahmadreza Hedayat	225	1 27.5.2.4	170	61	T	Y	170.61 27.5.2.4	By "The AP shall set the CS Required subfield to 1 except when all solicited HE trigger-based PPDUs contain an Ack or BlockAck frame and the Length subfield in the Common Info field of the Trigger frame is less than or equal to 418.", only when all RUs seek a response frame CS=0, leading to the cases where one or more RUs (but not all) seel a response frame and the AP would set CS=1; i.e. those STAs sending response frame have to sense the medium for transmitting their response frame. This is a departure from legacy behavior where STAs sende response frames (except CTS) without CS. Need to fix this either by having individual CS or by defining the AP behvior to avoid such cases.	As in the comment		2017/1/9 9:42
3232	Ahmadreza Hedayat	225	1 27.5.2.3	169	56	T	Y	169.56 27.5.2.3	Add the BQRP and GCR MU-BAR: "If the Trigger Type field of a Trigger frame is not Basic Trigger, then the STA shall include in the response A-MPDU at least one MPDU of the required type. A Beamforming Report Poll Trigger frame solicits HE Compressed Beamforming Feedback frames (see 27.6 (HE sounding protocol), an MU BAR Trigger frame solicits BlockAck frames (see 27.4 (Block acknowledgement)), and a BSRP Trigger frame solicits QoS Null frames (see 27.5.2.5 (HE buffer status feedback operation for UL MU). The MPDUs included in the response shall not solicit a response."	"If the Trigger Type field of a Trigger frame is not Basic Trigger, then the STA shall include in the response A-MPDU at least one MPDU of the required type. A Beamforming Report Poll Trigger frame solicits HE Compressed Beamforming Feedback frames (see 27.6 (HE sounding protocol), an MU BAR Trigger frame or a GCR MU-BAR frame solicits BlockAck frames (see 27.4 (Block acknowledgement)), a BSRP Trigger frame solicits QoS Null frames (see 27.5.2.5 (HE buffer status feedback operation for UL MU), and a BQRP Trigger frame solicits QoS Null frames. The MPDUs included in the response shall not solicit a response."		2017/1/9 9:42
3233	Ahmadreza Hedayat	225	1 27.5.2.3	170	1	T	Y	170.01 27.5.2.3	Is there a required type frame for Basic Trigger frame? If so then need to clarify it here ... "If the Trigger Type field of the soliciting Trigger frame is Basic Trigger and the STA does not have a frame of the required type, the STA shall either not transmit a response or transmit one or more QoS Null frames."	As in the comment		2017/1/9 9:42
3234	Ahmadreza Hedayat	225	1 27.5.2.3	170	9	T	Y	170.09 27.5.2.3	This needs to be revised to consider the role of Preferred AC subfield of a Basic Trigger frame: "A STA that is an intended receiver of a Basic Trigger frame may include MPDUs with any TID in the HE trigger-based PPDU sent in response to a Trigger frame subject the rules of 27.10.4 (AMPDU with multiple TIDs)."	As in the comment		2017/1/9 9:42
3235	Ahmadreza Hedayat	225	1 27.5.2.4	170	50	T	Y	170.50 27.5.2.4	If any of the 20MHz channels containing the allocated RU is not ailde then the STA shall not sent the TB PPDU; "... if the STA detects that the 20 MHz channels containing the allocated RUs are not all idle, then the STA shall not transmit anything in the allocated RUs."	" ... if the STA detects that any of the 20 MHz channels containing the allocated RUs is not all idle, then the STA shall not transmit anything in the allocated RUs."		2017/1/9 9:42
3236	Ahmadreza Hedayat	225	1 27.5.2.6	172	35	T	Y	172.35 27.5.2.6	In D1.0, random access RUs are only allowed to be within a Basic Trigger frame; "An HE AP may transmit a Basic Trigger frame or a BSRP Trigger frame that contains one or more RUs for random access."	Either remove the reference to BSRP, or update the spec so that RA RUs can be included withion a BSRP Trigger frame (and if so then any other variant should be included?)		2017/1/9 9:42

3237	Ahmadreza Hedayat	225	1 27.5.2.6.2	173	30	T	Y	173.30 27.5.2.6.2	"For an initial HE trigger-based PPDU transmission or following a successful HE trigger-based PPDU transmission, when an HE STA obtains the value of OCWmin from the HE AP indicated in the RAPS element, it shall set the value of OCW to the OCWmin and shall initialize its OBO counter to a random value in the range of 0 and OCWmin."	"For an initial HE trigger-based PPDU transmission or following a successful HE trigger-based PPDU transmission, an HE STA shall set the value of OCW to the OCWmin obtained from the most recent OCWmin indicated in the RAPS element from the HE AP, and shall initialize its OBO counter to a random value in the range of 0 and OCWmin."		2017/1/9 9:42
3238	Ahmadreza Hedayat	225	1 27.5.2.6.2	173	49	T	Y	173.49 27.5.2.6.2	This is not the best use of RA RUs: "If the selected RU is considered busy as a result of either physical or virtual carrier sensing, then the HE STA shall not transmit its HE trigger-based PPDU in the randomly selected RU and it randomly selects any one of the RUs that are assigned to AID value 0 in the subsequent Trigger frame." It'd be better if the spec let the STA to pick another RA RU from the same Trigger frame (instead of referring to the next Trigger frame).	As in the comment		2017/1/9 9:42
3239	Ahmadreza Hedayat	225	1 27.5.2.6.2	174	1	T	Y	174.01 27.5.2.6.2	The STA may seek to retransmit the frame via other access methods (and not to seek RA again). "If a STA transmits an HE trigger-based PPDU that solicits an immediate response in a random access RU and the expected response is not received, the transmission is considered unsuccessful and the STA invokes the UL OFDMA-based random access retransmission procedure as defined in 27.5.2.6.3 (Retransmission procedure for random access)."	"... the STA invokes the UL OFDMA-based random access retransmission procedure as defined in 27.5.2.6.3 (Retransmission procedure for random access), if the STA decides to retransmit during an upcoming random access opportunity."		2017/1/9 9:42
3240	Albert Petrick	225	1 27.7.4	186	8	T	Y	186.08 27.7.4	TWT scheduling STA and TWT scheduled STA are described. The text states "Either STA can tear down an established negotiation...." It's not clear if "Either STA" means the scheduling STA and the scheduled STA.	Rewrite sentence for clarity and expand on "Either STA"		2017/1/9 9:42
3241	Albert Petrick	225	1 10.13.2	128	42	T	Y	128.42 10.13.2	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"		2017/1/9 9:42
3242	Albert Petrick	225	1 28.5	373	28	E	Y	373.28 28.5	Units "Mbps" in Table 28-47 through Tables 28-102 not consistent with units "Mb/s" in text, tables and figures in IEEE 802.11-2016.	Change "Mbps" to "Mb/s" in Tables 28-47 through Table 28-102. There are 54 tables that need updating!		2017/1/9 9:42
3243	Albert Petrick	225	1 28.3.12	338	43	E	Y	338.43 28.3.12	Figure 28-35 to small to read or print	Redraw figure use larger text font and align across page		2017/1/9 9:42
3244	Albert Petrick	225	1 9.4.2.221	94	56	T	Y	94.56 9.4.2.221	MUEDCATimer not defined	Add definition for MUEDCATimer in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3245	Albert Petrick	225	1 28.3.12	338	50	E	Y	338.50 28.3.12	Equation 28-114 brackets cutoff	Resize font of brackets and vertically center between paragraphs		2017/1/9 9:42
3246	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	Sentence center justified should be left justified	Left justify sentence; "A STA for which dot11HEOptionImplemented is true shall set dot11VeryHighThroughputOptionImplemented or dot11HighThroughputOptionImplemented to true."		2017/1/9 9:42
3247	Albert Petrick	225	1 28.1.1	210	33	E	Y	210.33 28.1.1	Period missing at end of sentence	Add period at the of sentence after "S"		2017/1/9 9:42
3248	Albert Petrick	225	1 27.7.4	187	23	E	Y	187.23 27.7.4	Period missing at end of sentence	Add period at the of sentence after "TWT"		2017/1/9 9:42
3249	Albert Petrick	225	1 26.6.2	178	63	T	Y	178.63 26.6.2	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"		2017/1/9 9:42
3250	Albert Petrick	225	1 28.1.1	209	16	E	Y	209.16 28.1.1	Period missing at end of sentence	Add period at the of sentence after "band"		2017/1/9 9:42
3251	Albert Petrick	225	1 28.3.11.5	317	32	T	Y	317.32 28.3.11.5	BCC acronym not defined	Add definition for "BCC = binary convolutional code" in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3252	Albert Petrick	225	1 28.3.11.5	317	33	T	Y	317.33 28.3.11.5	LDPC acronym not defined	Add definition for "LDPC = low density parity check " in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3253	Albert Petrick	225	1 28.3.12	338	56	E	Y	338.56 28.3.12	Equation 28-114 brackets cutoff	Resize font of brackets and vertically center between paragraphs		2017/1/9 9:42

3254	Albert Petrick	225	1 28.1.1	210	35	E	Y	210.35 28.1.1		Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
3255	Albert Petrick	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23		Space missing between words in GIAnd LTF Type subfield of Figure 9-52	Add character space between the letters "IA" in "GIAnd LTF Type". Should read as "GI And LTF Type"	2017/1/9 9:42
3256	Albert Petrick	225	1 27.15.4.1	203	18	T	Y	203.18 27.15.4.1		HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3257	Albert Petrick	225	1 27.7.4	187	26	E	Y	187.26 27.7.4		Period missing at end of sentence	Add period at the of sentence after "is 1"	2017/1/9 9:42
3258	Albert Petrick	225	1 28.1.1	209	19	E	Y	209.19 28.1.1		Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
3259	Albert Petrick	225	1 9.4.1.62	56	15	E	Y	56.15 9.4.1.62		Table 9-121a bit positions misaligned	Fix bit alignment with each subfield and resize Figure 9-121a to fit center of page.	2017/1/9 9:42
3260	Albert Petrick	225	1 9.4.2.1	67	16	T	Y	67.16 9.4.2.1		HE Capabilities Element clause number incorrect in Table 9-77 Element IDs	Change clause number to "9.4.2.218"	2017/1/9 9:42
3261	Albert Petrick	225	1 9.4.1.62	56	4	T	Y	56.04 9.4.1.62		The text in Clause 9.4.1.62 HE MIMO Control field) needs clarification. The text should call out number of bits and range of bits for Figure 9-121a.	Add the following underlined text (not underlined text) . The HE MIMO Control field is included in every HE Compressed Beamforming frame (see 9.4.1.63 (HE Compressed Beamforming Report field)). The HE MIMO Control field is 40-bits (B0-B39) and is defined in Figure 9-121a (HE MIMO Control field). The subfields and bit assignments (B0-B39) are defined and described in Table 9-7a (HE MIMO Control field encoding).	2017/1/9 9:42
3262	Albert Petrick	225	1 28.3.12	338	44	E	Y	338.44 28.3.12		Equation 28-115 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
3263	Albert Petrick	225	1 9.4.2.1	67	20	T	Y	67.20 9.4.2.1		The HE Operation Element clause number is incorrect in Table 9-77 Element IDs.	Change clause number to "9.4.2.219"	2017/1/9 9:42
3264	Albert Petrick	225	1 28.1.1	210	38	E	Y	210.38 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3265	Albert Petrick	225	1 28.1.1	209	22	E	Y	209.22 28.1.1		Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
3266	Albert Petrick	225	1 27.7.4	187	31	E	Y	187.31 27.7.4		Period missing at end of sentence	Add period at the of sentence after "TWT"	2017/1/9 9:42
3267	Albert Petrick	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Beamforemee STS For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B34-B36 in Definition column Change to: "B34-B36 indicates the maximum number of space-time streams the STA can receive in an HE NDP."	2017/1/9 9:42
3268	Albert Petrick	225	1 28.1.1	211	62	E	Y	211.62 28.1.1		Period missing at end of sentence	Add period at the of sentence after "least 4"	2017/1/9 9:42
3269	Albert Petrick	225	1 28.3.12	338	56	E	Y	338.56 28.3.12	3253	Equation 28-114 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
3270	Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3		In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For > 80 MHz" is labeled as 1-bit. There are 3-bits (B49 -B51).	Change Bits "1" to "3" for subfield "NSTS Total for > 80 MHz" in Figure 9-589cl	2017/1/9 9:42
3271	Albert Petrick	225	1 9.4.2.218.2	79	9	T	Y	79.09 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "MU Cascade Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B22:" in Definition column before the word "Indicates" Add bits "B22:" in Encoding column before the word "Set"	2017/1/9 9:42
3272	Albert Petrick	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "NTST Total For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B37-B39 in Definition column Change to: "B37-B39 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
3273	Albert Petrick	225	1 28.1.1	211	13	E	Y	211.13 28.1.1		Period missing at end of sentence	Add period at the of sentence after "DL OFDMA)"	2017/1/9 9:42
3274	Albert Petrick	225	1 9.4.2.218.3	83	6	T	Y	83.06 9.4.2.218.3		Add clarity. Call out bit positions in Table 9-262aa for subfield "Device Class" corresponding to those bit positions in Figure 9-589cl	In "Definition" column: Add "B12:" at the beginning of the sentence." In the "Encoding" column: Before sentence Add "B12:" "Set to 1 to indicate STA is a Class A device." In the "Encoding" column: Before sentence Add "B12:" Set to 0 to indicate STA is a Class B device. Note: This field is reserved when transmitting STA is an AP STA."	2017/1/9 9:42
3275	Albert Petrick	225	1 9.4.2.218.2	79	15	T	Y	79.15 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Ack-Enabled Multi-TID Aggregation Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B23:" in Definition column before the word "Indicates" Add bits "B23:" in Encoding column before the word "Set"	2017/1/9 9:42

3276	Albert Petrick	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Beamformee STS for > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B40-B42 in Definition column Change to: "B40-B42 indicates the maximum number for.....HE NDP."	2017/1/9 9:42
3277	Albert Petrick	225	1 9.4.2.218.3	83	13	T	Y	83.13 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "LDPC Coding In Payload" corresponding to those bit positions in Figure 9-589cl	Change text in "Definition" column to read: "B13: Indicates support of transmission....." Change text in "Encoding" column to read: "B13: Set to 1 to indicate STA.... B13: Set to 9 otherwise. "	2017/1/9 9:42
3278	Albert Petrick	225	1 9.4.2.218.2	79	22	T	Y	79.22 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Group Addressed Multi-STA BlockAck In DL MU Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B24:" in Definition column before the word "Indicates" Add bits "B24:" in Encoding column before the word "Set"	2017/1/9 9:42
3279	Albert Petrick	225	1 28.3.12	338	44	E	Y	338.44 28.3.12	3262	Equation 28-115 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
3280	Albert Petrick	225	1 28.1.1	212	2	E	Y	212.02 28.1.1		Period missing at end of sentence	Add period at the of sentence after "applicable"	2017/1/9 9:42
3281	Albert Petrick	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "NSTS Total For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B44-B45 in Definition column Change to: "B43-B45 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
3282	Albert Petrick	225	1 9.4.2.218.3	83	16	T	Y	83.16 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262 aa for subfield "HE-LTF And GI For HE PPDUs" corresponding to those bit positions in Figure 9-589cl	Change text in "Encoding column to read: "For B14 and B15: Set to 1 if supported by the STA. Set to 0 otherwise."	2017/1/9 9:42
3283	Albert Petrick	225	1 28.1.1	211	15	E	Y	211.15 28.1.1		Period missing at end of sentence	Add period at the of sentence after "UL OFDMA)"	2017/1/9 9:42
3284	Albert Petrick	225	1 9.4.2.218.2	79	28	T	Y	79.28 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "OMI A-Control Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B25:" in Definition column before the word "Indicates" Add bits "B25:" in Encoding column before the word "If"	2017/1/9 9:42
3285	Albert Petrick	225	1 9.4.2.218.3	85	20	T	Y	85.20 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B46-B48 in Definition column Change to: "B46-B48 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
3286	Albert Petrick	225	1 9.4.2.218.3	82	15	E	Y	82.15 9.4.2.218.3		Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 2.4 GHz.	2017/1/9 9:42
3287	Albert Petrick	225	1		2	T	Y			.11ax D1.0 makes reference to IEEE P802.11REVmc-D8.0, which is essentially IEEE P802.11-2016 (the new rollup baseline standard) and soon to be published in 2017. Once it is published, P802.11REVmc-D8.0 will be removed from the IEEE 802.11 working group members area on the website and will not be available in public domain on the IEEE 802.11 work group document server for public use. All references in .11ax D1.0 to clauses in the baseline standard should be made to IEEE P802.11-2016 and not to IEEE P802.11REVmc-D8.0.	Remove IEEE P802.11REVmc(TM)/D8.0 and replace with IEEE P802.11-2016	2017/1/9 9:42
3288	Albert Petrick	225	1			G	Y			The title of the column headers in ALL of the tables need to be formatted; 1) center text in title. 2) lock 1st row of table to continue on next page.	Fix and format ALL tables headers (1st row) and enable 1st row to roll-over on next page when tables don't fit on current page.	2017/1/9 9:42
3289	Albert Petrick	225	1			G	Y			Throughout .11ax D1.0 there are references where some bits have hyphens and others do not e.g., 1 bit, and 1-bit . The text, Tables and Figures should be consistent using "hyphens" as used in IEEE 802.11-2016.	Fix. Include hyphens in text, Tables and Figures similar to the format utilized in baseline IEEE 802.11-2016	2017/1/9 9:42
3290	Albert Petrick	225	1			G	Y			Throughout .11ax D1.0 cross-reference links in text to tables, figures, equations, clauses and sub-clauses either broken, and non-existent.	Fix cross-reference links in text, tables, figures, equations and external links	2017/1/9 9:42

3291	Albert Petrick	225	1			G	Y		Throughout .11ax D1.0 the alignment of the terms in equations and spacing between paragraph text and equations need to be centered on the pages.	Fix spacing of terms in equations and space of text between equations.	2017/1/9 9:42
3292	Albert Petrick	225	1 3.4	7	13	E	Y	7.13 3.4	hyphen error -- hyphen between the words frequency and division "Orthogonal frequency-division multiple access" The use of hyphens should be consistent with what is used in IEEE 802.11-2016.	Remove hyphen after "frequency"	2017/1/9 9:42
3293	Albert Petrick	225	1 4.3.14a	9	33	T	Y	9.33 4.3.14a	"RU" not defined	Add definition for "RU" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3294	Albert Petrick	225	1 6.3.4.2.2	11		E	Y	11.00 6.3.4.2.2	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3295	Albert Petrick	225	1 6.3.7.4.2	12	25	E	Y	12.25 6.3.7.4.2	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3296	Albert Petrick	225	1 27.4.2	158	30	E	Y	158.30 27.4.2	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3297	Albert Petrick	225	1 27.4.2	158	51	E	Y	158.51 27.4.2	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3298	Albert Petrick	225	1 27.4.4	160	160	E	Y	161.60 27.4.4	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3299	Albert Petrick	225	1 27.4.4.1	160	45	E	Y	160.45 27.4.4.1	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3300	Albert Petrick	225	1			E	Y		multi-TID not capitalized	Make global change in .11ax D1.0: change "multi-TID to Multi-TID"	2017/1/9 9:42
3301	Albert Petrick	225	1 25.5.2.3	167	69	T	Y	167.69 25.5.2.3	"TBD" is a placeholder and not allowed in drafts in WG letter ballots as per IEEE 802.11 WG policies.	Remove TBD	2017/1/9 9:42
3302	Albert Petrick	225	1 27.3.3.4	154	39	T	Y	154.39 27.3.3.4	The "L3 Frag BA Request frame", "L3 Frag BA Response" and "BA Response frame" are not defined and ambiguous. There are no figures, tables, text or timing flow between Requests and Responses.	Define "L3 Frag BA Request frame" and "L3 Frag BA Response", BA Response frames, add figures, tables and describe a procedure for L3 dynamic fragmentation.	2017/1/9 9:42
3303	Albert Petrick	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	Text in sentence references table "Table YY-1". Table doesn't exist in .11ax D1.0 or in IEEE 802.11-2016	Fix reference and add table or delete sentence referencing table	2017/1/9 9:42
3304	Albert Petrick	225	1 27.6.2	177	43	T	Y	177.43 27.6.2	Figure 27-3 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing as beamformee from beamformer.	2017/1/9 9:42
3305	Albert Petrick	225	1 27.6.2	178	6	T	Y	178.06 27.6.2	Figure 27-4 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing, identify the beamformee "1 thru n" and spell out the word "TRIG" in UL TRIG PPDU	2017/1/9 9:42
3306	Albert Petrick	225	1 27.6.2	178	7	T	Y	178.07 27.6.2	"CSI" in Figure 27-4 is not defined or referenced in text	Expand on the term "CSI" and describe this term in the text with relationship with HE beamformee.	2017/1/9 9:42
3307	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	Sentence misaligned spacing	Left just "A STA fro which do11HEOptionImplemented..... "	2017/1/9 9:42
3308	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	Period missing at end of sentence	Add period at the end of sentence.	2017/1/9 9:42
3309	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	Sentence misaligned spacing	left justify "issue a PHY-CCA.indication(BUSY, {secondary40}),"	2017/1/9 9:42
3310	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	Sentence misaligned spacing	left justify "PHYCCA. Indication(BUSY, {primary}).....and"	2017/1/9 9:42
3311	Albert Petrick	225	1 28.3.17.6.4	349	27	E	Y	349.27 28.3.17.6.4	Sentence misaligned spacing	left justify "present and on of the .....or"	2017/1/9 9:42
3312	Albert Petrick	225	1 28.3.17.6.4	349	46	E	Y	349.46 28.3.17.6.4	Sentence misaligned spacing	Change "BUSY, {secondary40})" to "BUSY,{secondary40})"	2017/1/9 9:42
3313	Albert Petrick	225	1 28.3.17.6.4	349	21	E	Y	349.21 28.3.17.6.4	Sentence misaligned spacing	Change "max(-72 dBm, OBSS_PD)" to " "max (-72 dBm, OBSS_PD)"	2017/1/9 9:42
3314	Albert Petrick	225	1 28.3.18.2	353	62	T	Y	353.62 28.3.18.2	Spectral flatness procedure needs more clarity	Delete the sentence: "Demodulate the HE PPDUs .....procedure:" and place with the following sentence. " The HE PPDUs shall be demodulated using the following (or equivalent) procedure:"	2017/1/9 9:42
3315	Albert Petrick	225	1 28.4.3	372	48	T	Y	372.48 28.4.3	Table 28-46 - HE PHY characteristics lists the aPSDUMaxLength set to 6,500,631 octets. It's not clear in the table or text what assumptions were made and how the length is calculated.	Add a NOTE at the bottom of Table 28-46 stating the assumptions and the calculation (Eq.) for determining the PSDU maximum. E.g., 1024-QAM 5/6 rate coding rate, LDPC, 160 MHz channel bandwidth, 8 spatial streams, LDPC.	2017/1/9 9:42
3316	Albert Petrick	225	1 28.3.10.7.2	277	58	E	N	277.58 28.3.10.7.2	LDPC misspelled in Table 28-17	Change "LPDC" to "LDPC" in Bandwidth column of Table 28-17	2017/1/9 9:42

3317	Albert Petrick	225	1 28.3.6.4	250	43	T	Y	250.43 28.3.6.4			Four extra tones insertion; mapping not correct for Construction of L-SIG.	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
3318	Albert Petrick	225	1 28.3.6.5	251	11	T	Y	251.11 28.3.6.5			Four extra tones insertion; mapping not correct for Construction of RL-SIG	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
3319	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23			"Doppler subfield indicates a high doppler mode of transmission." Definition, clarification and technical details are not in .11axD1.0 with respect to the range of doppler spread and operating condiions triggering "high doppler mode". In Table 9-262aa pg. 83 "doppler procedure" defines 2-bits and references for "doppler" and makes reference to STAs using a "Doppler Procedure" for HE PPDUs transmissions. Critical technical details on the doppler procedure are lacking in .11axD1.0.	Either remove all references to Doppler in .11axD1.0 (text and in Table 9-262aa) including STA doppler support or add detailed technical content on Doppler Procedure for HE PPDU transmissions in support of clause of 9.3.1.23 and Table 9-262aa.	2017/1/9 9:42
3320	Albert Petrick	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3			Table 9-262aa defines HE-PHY Capabilities Information field. Doppler subfield makes reference to Doppler Procedure. There is no text on "Doppler procedure" procedure needs to be defined.	Add technical detail content or remove "Doppler subfield from Table 262aa	2017/1/9 9:42
3321	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23			Doppler is not defined in clause 3.4 of IEEE 802.11-2016 (802.11 REVmc D8.0)	Add "Doppler" definition in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3322	Albert Petrick	225	1 27.3.3.1	153	19	E	Y	153.19 27.3.3.1			Extra period	Remove extra period from the end of the sentence.	2017/1/9 9:42
3323	Albert Petrick	225	1 27.3.4.1	155	44	E	Y	155.44 27.3.4.1			Paragraph misaligned	left justify paragraph	2017/1/9 9:42
3324	Albert Petrick	225	1 27.5.2.5	171	43	E	Y	171.43 27.5.2.5			Extra parenthesis	Remove extra parenthesis at the end of sentence.	2017/1/9 9:42
3325	Albert Petrick	225	1 27.5.2.5	171	40	T	Y	171.40 27.5.2.5			"ACs (#2190, 2191)" are remaining CID placeholders and not part of draft .11ax D1.0	Remove references to CIDs #2190, and 2191	2017/1/9 9:42
3326	Albert Petrick	225	1 27.5.2.5	171	41	E	Y	171.41 27.5.2.5			Table number missing for Table 9-XX (Delta TID subfield encoding).	Add Table number 9-18c	2017/1/9 9:42
3327	Albert Petrick	225	1 9.3.1.22	42	7	E	Y	42.07 9.3.1.22			Figure 9-52d Common Info field B20-B21 has a spelling error for "GIAnd LTF Type"	Change "GIAnd" to "GI And"	2017/1/9 9:42
3328	Albert Petrick	225	1 9.4.2.218.1	76	2	E	Y	76.02 9.4.2.218.1			Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3329	Albert Petrick	225	1 9.4.2.218.5	89	38	E	Y	89.38 9.4.2.218.5			Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3330	Albert Petrick	225	1 9.4.2.218.5	89	13	E	Y	89.13 9.4.2.218.5			Bit positions B0 - Bn not labeled on Figure 9-589cp--PPE Thresholds Info field format	Update Figure 9-589cp with Bit positions B0-Bn for groups of 3 bits per PPET16 and PPET8 subfields.	2017/1/9 9:42
3331	Albert Petrick	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1			Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3332	Albert Petrick	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5			Extra period	Remove extra period at the end of sentence after the word "context"	2017/1/9 9:42
3333	Albert Petrick	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1			Extra period	Remove extra period at the end of sentence after the word "allocation)"	2017/1/9 9:42
3334	Albert Petrick	225	1		2	T	Y		3287		.11ax D1.0 makes reference to IEEE P802.11REVmc-D8.0, which is essentially IEEE P802.11-2016 (the new rollup baseline standard) and soon to be published in 2017. Once it is published, P802.11REVmc-D8.0 will be removed from the IEEE 802.11 working group members area on the website and will not be available in public domain on the IEEE 802.11 work group document server for public use. All references in .11ax D1.0 to clauses in the baseline standard should be made to IEEE P802.11-2016 and not to IEEE P802.11REVmc-D8.0.	Remove IEEE P802.11REVmc(TM)/D8.0 and replace with IEEE P802.11-2016	2017/1/9 9:42
3335	Albert Petrick	225	1 27.5.2.2.1	164	53	E	Y	164.53 27.5.2.2.1			Period missing at end of sentence	Add period at end of sentence after the word "S-MPDUs))"	2017/1/9 9:42
3336	Albert Petrick	225	1			G	Y		3288		The title of the column headers in ALL of the tables need to be formatted; 1) center text in title. 2) lock 1st row of table to continue on next page.	Fix and format ALL tables headers (1st row) and enable 1st row to roll-over on next page when tables don't fit on current page.	2017/1/9 9:42

3337	Albert Petrick	225	1			G	Y		3289	Throughout .11ax D1.0 there are references where some bits have hyphens and others do not e.g., 1 bit, and 1-bit . The text, Tables and Figures should be consistent using "hyphens" as used in IEEE 802.11-2016.	Fix. Include hyphens in text, Tables and Figures similar to the format utilized in baseline IEEE 802.11-2016	2017/1/9 9:42
3338	Albert Petrick	225	1 27.5.2.2.1	164	56	E	Y	164.56 27.5.2.2.1		Period missing at end of sentence	Add period at end of sentence after the word "behavior))"	2017/1/9 9:42
3339	Albert Petrick	225	1			G	Y		3290	Throughout .11ax D1.0 cross-reference links in text to tables, figures, equations, clauses and sub-clauses either broken, and non-existent.	Fix cross-reference links in text, tables, figures, equations and external links	2017/1/9 9:42
3340	Albert Petrick	225	1			G	Y		3291	Throughout .11ax D1.0 the alignment of the terms in equations and spacing between paragraph text and equations need to be centered on the pages.	Fix spacing of terms in equations and space of text between equations.	2017/1/9 9:42
3341	Albert Petrick	225	1 3.4	7	13	E	Y	7.13 3.4	3292	hyphen error – hyphen between the words frequency and division "Orthogonal frequency-division multiple access" The use of hyphens should be consistent with what is used in IEEE 802.11-2016.	Remove hyphen after "frequency"	2017/1/9 9:42
3342	Albert Petrick	225	1 27.5.2.2.1	164	59	E	Y	164.59 27.5.2.2.1		Period missing at end of sentence	Add period at end of sentence after the word "TIDs))"	2017/1/9 9:42
3343	Albert Petrick	225	1 4.3.14a	9	33	T	Y	9.33 4.3.14a	3293	"RU" not defined	Add definition for "RU" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3344	Albert Petrick	225	1 6.3.4.2.2	11		E	Y	11.00 6.3.4.2.2	3294	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3345	Albert Petrick	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3		Extra period	Add period at end of sentence after the word "PPDU"	2017/1/9 9:42
3346	Albert Petrick	225	1 6.3.7.4.2	12	25	E	Y	12.25 6.3.7.4.2	3295	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3347	Albert Petrick	225	1 27.4.2	158	30	E	Y	158.30 27.4.2	3296	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3348	Albert Petrick	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2		Extra period	Add period at end of sentence after the word "width)"	2017/1/9 9:42
3349	Albert Petrick	225	1 9.4.2.218.2	77	55	E	Y	77.55 9.4.2.218.2		Table 9-262z misaligned Equation in "Encoding" column. "OIF" misspelled	Fix alignment of Eq Nmax = 2Maximum Number OFF-MPDUs. Change "OIF" to "OIf". Increase line spacing between sentences for aligning equation.	2017/1/9 9:42
3350	Albert Petrick	225	1 10.13.2	128	42	T	Y	128.42 10.13.2	3241	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3351	Albert Petrick	225	1 27.4.2	158	51	E	Y	158.51 27.4.2	3297	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3352	Albert Petrick	225	1 26.6.2	178	63	T	Y	178.63 26.6.2	3249	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3353	Albert Petrick	225	1 27.4.4	160	160	E	Y	161.60 27.4.4	3298	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3354	Albert Petrick	225	1 27.15.4.1	203	18	T	Y	203.18 27.15.4.1	3256	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3355	Albert Petrick	225	1 27.4.4.1	160	45	E	Y	160.45 27.4.4.1	3299	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3356	Albert Petrick	225	1 9.4.2.1	67	16	T	Y	67.16 9.4.2.1	3260	HE Capabilities Element clause number incorrect in Table 9-77 Element IDs	Change clause number to "9.4.2.218"	2017/1/9 9:42
3357	Albert Petrick	225	1 9.4.2.1	67	20	T	Y	67.20 9.4.2.1	3263	The HE Operation Element clause number is incorrect in Table 9-77 Element IDs.	Change clause number to "9.4.2.219"	2017/1/9 9:42
3358	Albert Petrick	225	1			E	Y		3300	multi-TID not capitalized	Make global change in .11ax D1.0: change "multi-TID to Multi-TID"	2017/1/9 9:42
3359	Albert Petrick	225	1 28.3.14.3	342	53	T	Y	342.53 28.3.14.3		CCDF not defined	Change "CCDF" to "complementary cumulative distribution function (CCDF)". Add definition for CCDF in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3360	Albert Petrick	225	1 25.5.2.3	167	69	T	Y	167.69 25.5.2.3	3301	"TBD" is a placeholder and not allowed in drafts in WG letter ballots as per IEEE 802.11 WG policies.	Remove TBD	2017/1/9 9:42
3361	Albert Petrick	225	1 9.3.1.20	40	1	E	Y	40.01 9.3.1.20		Clause title should not be underlined.	Remove underline; Change to "VHT/HE NDP"	2017/1/9 9:42
3362	Albert Petrick	225	1 27.3.3.4	154	39	T	Y	154.39 27.3.3.4	3302	The "L3 Frag BA Request frame", "L3 Frag BA Response" and "BA Response frame" are not defined and ambiguous. There are no figures, tables, text or timing flow between Requests and Responses.	Define "L3 Frag BA Request frame" and "L3 Frag BA Response", BA Response frames, add figures, tables and describe a procedure for L3 dynamic fragmentation.	2017/1/9 9:42
3363	Albert Petrick	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23		Parenthesis not needed in Figure 9-52c-Trigger frame	Remove parenthesis - Change "(RA)" to "RA" in Figure 9-52c-Trigger frame	2017/1/9 9:42
3364	Albert Petrick	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	3303	Text in sentence references table "Table YY-1". Table doesn't exist in .11ax D1.0 or in IEEE 802.11-2016	Fix reference and add table or delete sentence referencing table	2017/1/9 9:42

3365	Albert Petrick	225	1 9.3.1.23	41	59	E	Y	41.59 9.3.1.23		Add space between sentences	Add space at end of sentence after the word "STA."	2017/1/9 9:42
3366	Albert Petrick	225	1 27.6.2	177	43	T	Y	177.43 27.6.2	3304	Figure 27-3 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing as beamformee from beamformer.	2017/1/9 9:42
3367	Albert Petrick	225	1 27.6.2	178	6	T	Y	178.06 27.6.2	3305	Figure 27-4 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing, identify the beamformee "1 thru n" and spell out the word "TRIG" in UL TRIG PPDU	2017/1/9 9:42
3368	Albert Petrick	225	1 27.6.2	178	7	T	Y	178.07 27.6.2	3306	"CSI" in Figure 27-4 is not defined or referenced in text	Expand on the term "CSI" and describe this term in the text with relationship with HE beamformee.	2017/1/9 9:42
3369	Albert Petrick	225	1 9.3.1.23	41	61	E	Y	41.61 9.3.1.23		Add space between sentences	Add space at end of sentence after the word "address."	2017/1/9 9:42
3370	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3307	Sentence misaligned spacing	Left just "A STA fro which do11HEOptionImplemented....."	2017/1/9 9:42
3371	Albert Petrick	225	1 9.3.3.6	53	36	E	Y	53.36 9.3.3.6		spelling hyphen error in Table 9-30	In Table 9-30 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3372	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3308	Period missing at end of sentence	Add period at the end of sentence.	2017/1/9 9:42
3373	Albert Petrick	225	1 9.3.3.8	54	30	E	Y	54.30 9.3.3.8		spelling hyphen error in Table 9-32	In Table 9-32 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3374	Albert Petrick	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11		spelling hyphen error in Table 9-34	In Table 9-34 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3375	Albert Petrick	225	1 9.2.4.1.10	20	5	T	Y	20.05 9.2.4.1.10		"HCT/Order subfield" naming should be consistent when referenced in text. It's referenced as "HTC/Order field"	Change to "HCT/Order subfield" on lines 5 and 7	2017/1/9 9:42
3376	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3309	Sentence misaligned spacing	left justify "issue a PHY-CCA.indication(BUSY, {secondary40}),"	2017/1/9 9:42
3377	Albert Petrick	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1		Reverse Direction Protocol (RDP) in Table 9-18a is missing reference "subclause reference" in the Content of the Control Information subfield.	Add the following clause reference: "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"	2017/1/9 9:42
3378	Albert Petrick	225	1 9.2.4.6.4.1	22	59	T	Y	22.59 9.2.4.6.4.1		In clause A-Control 9.2.6.4 the text needs to clarify the bit length in the Control ID subfields, describe the sequence ordering and state how many Control IDs are defined and reserved. The text should flow with Table 9-15b, and Table 9-18a.	Add the following: The A-Control subfield contains a sequence of one or more Control subfields. The format of each Control subfield is (DELETE defined) [ADD TEXT: shown] in Figure 9-15b (Control subfield format). [DELETE SENTENCE: The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence.] The Control ID subfield [ADD TEXT: as shown in Figure 9-15b (Control subfield format) is 4-bits in length and] indicates the type of information carried in the Control Information subfield. The [ADD TEXT: bit] length of the Control Information subfield is fixed for each value of the Control ID subfield that is not reserved. The values of the Control ID subfield and the associated length of the Control Information subfield are defined in Table 9-18a (Control ID subfield values) [ADD	2017/1/9 9:42
3379	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3310	Sentence misaligned spacing	left justify "PHYCCA. Indication(BUSY, {primary}),.....and"	2017/1/9 9:42
3380	Albert Petrick	225	1 9.2.4.6.4.2	24	20	E	Y	24.20 9.2.4.6.4.2		Editorial formatting error with Target receiver power, TRSSI,	Remove comma "," before TRSSI and change ", TRSSI" to "(TRSSI)"	2017/1/9 9:42
3381	Albert Petrick	225	1 9.2.4.6.4.2	23	59	T	Y	23.59 9.2.4.6.4.2		Provide more clarity: UL PPDU subfield. The text should reference the "5-bits" for UL PPDU Length field in Figure 9-15c.	Insert text "is 5-bits (B0-B4) that" after the word subfield.	2017/1/9 9:42
3382	Albert Petrick	225	1 9.2.4.6.4.6	27	39	T	Y	27.39 9.2.4.6.4.6		No reference to the bits in the Reserve subfield In 9.2.4.6.4.6.	Add the following sentence "Bits (B6-B7) are reserved." after the sentence on line 39.	2017/1/9 9:42
3383	Albert Petrick	225	1 28.3.17.6.4	349	27	E	Y	349.27 28.3.17.6.4	3311	Sentence misaligned spacing	left justify "present and on of the .....or"	2017/1/9 9:42

3384	Albert Petrick	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8		The bits in Table 9-15i should be called in the text for clarification.	Add the following underlined text. The Control Information 8-bit subfield for the RDP Trigger frame is shown in Figure 9-15i (Control Information subfield format when the Control ID subfield is 6), 6-bits (B2-B7) are reserved. The AC Constraint subfield bit (B0) of the RDP field indicates whether the mapped AC of an RD Data frame is constrained to a single AC, and is defined in Table 9-10 (AC Constraint subfield values), except that if B0 equals a value of 1 indicates that the response from an HE STA contains Data frames from the same AC or higher AC as defined in 10.28.4 (Rules for RD responder). The RDG/More PPDU subfield bit (B1) is defined in Table 9-11 (RDG/More PPDU subfield values).	2017/1/9 9:42
3385	Albert Petrick	225	1 9.3.1.24	41	23	T	Y	41.23 9.3.1.24		CQI acronym not defined in Table 9-25a	Add definition for CQI in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3386	Albert Petrick	225	1 28.3.17.6.4	349	46	E	Y	349.46 28.3.17.6.4	3312	Sentence misaligned spacing	Change "BUSY,{secondary40)}" to "BUSY,{secondary40)}"	2017/1/9 9:42
3387	Albert Petrick	225	1 9.4.2.218.3	82	12	E	Y	82.12 9.4.2.218.3		Missing period after sentences in Table 9-262aa	Add "periods" after each sentence in the Definition and Encoding columns in Table 9-262aa	2017/1/9 9:42
3388	Albert Petrick	225	1 9.4.2.218.5	89	36	T	Y	89.36 9.4.2.218.5		PPET, PPET8 and PPET16 acronym not defined	Add definitions for PPET, PPET8 and PPET16 in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3389	Albert Petrick	225	1 9.4.2.221	94	56	T	Y	94.56 9.4.2.221	3244	MUEDCATimer not defined	Add definition for MUEDCATimer in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3390	Albert Petrick	225	1 28.3.17.6.4	349	21	E	Y	349.21 28.3.17.6.4	3313	Sentence misaligned spacing	Change "max(-72 dBm, OBSS_PD)" to " "max (-72 dBm, OBSS_PD)"	2017/1/9 9:42
3391	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3246	Sentence center justified should be left justified	Left justify sentence; "A STA for which dot11HEOptionImplemented is true shall set dot11VeryHighThroughputOptionImplemented or dot11HighThroughputOptionImplemented to true."	2017/1/9 9:42
3392	Albert Petrick	225	1 28.3.18.2	353	62	T	Y	353.62 28.3.18.2	3314	Spectral flatness procedure needs more clarity	Delete the sentence: "Demodulate the HE PPDUs .....procedure:" and place with the following sentence. " The HE PPDUs shall be demodulated using the following (or equivalent) procedure:"	2017/1/9 9:42
3393	Albert Petrick	225	1 28.3.11.5	317	32	T	Y	317.32 28.3.11.5	3251	BCC acronym not defined	Add definition for "BCC = binary convolutional code" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3394	Albert Petrick	225	1 28.4.3	372	48	T	Y	372.48 28.4.3	3315	Table 28-46 - HE PHY characteristics lists the aPSDUMaxLength set to 6,500,631 octets. It's not clear in the table or text what assumptions were made and how the length is calculated.	Add a NOTE at the bottom of Table 28-46 stating the assumptions and the calculation (Eq.) for determining the PSDU maximum. E.g., 1024-QAM 5/6 rate coding rate, LDPC, 160 MHz channel bandwidth, 8 spatial streams, LDPC.	2017/1/9 9:42
3395	Albert Petrick	225	1 28.3.11.5	317	33	T	Y	317.33 28.3.11.5	3252	LDPC acronym not defined	Add definition for "LDPC = low density parity check " in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3396	Albert Petrick	225	1 28.3.10.7.2	277	58	E	N	277.58 28.3.10.7.2	3316	LDPC misspelled in Table 28-17	Change "LPDC" to "LDPC" in Bandwidth column of Table 28-17	2017/1/9 9:42
3397	Albert Petrick	225	1 28.3.6.4	250	43	T	Y	250.43 28.3.6.4	3317	Four extra tones insertion; mapping not correct for Construction of L-SIG.	In f) Change "[-1, -1, -1, 1]" to {-1, -1, 1, 1}"	2017/1/9 9:42
3398	Albert Petrick	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23	3255	Space missing between words in GIAnd LTF Type subfield of Figure 9-52	Add character space between the letters "IA" in "GIAnd LTF Type". Should read as "GI And LTF Type"	2017/1/9 9:42
3399	Albert Petrick	225	1 28.3.6.5	251	11	T	Y	251.11 28.3.6.5	3318	Four extra tones insertion; mapping not correct for Construction of RL-SIG	In f) Change "[-1, -1, -1, 1]" to {-1, -1, 1, 1}"	2017/1/9 9:42
3400	Albert Petrick	225	1 9.4.1.62	56	15	E	Y	56.15 9.4.1.62	3259	Table 9-121a bit positions misaligned	Fix bit alignment with each subfield and resize Figure 9-121a to fit center of page.	2017/1/9 9:42

3401	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3319	"Doppler subfield indicates a high doppler mode of transmission." Definition, clarification and technical details are not in . 11axD1.0 with respect to the range of doppler spread and operating conditions triggering "high doppler mode". In Table 9-262aa pg. 83 "doppler procedure" defines 2-bits and references for "doppler" and makes reference to STAs using a "Doppler Procedure" for HE PPDUs transmissions. Critical technical details on the doppler procedure are lacking in .11axD1.0.	Either remove all references to Doppler in .11axD1.0 (text and in Table 9-262aa) including STA doppler support or add detailed technical content on Doppler Procedure for HE PPDU transmissions in support of clause of 9.3.1.23 and Table 9-262aa.		2017/1/9 9:42
3402	Albert Petrick	225	1 9.4.1.62	56	4	T	Y	56.04 9.4.1.62	3261	The text in Clause 9.4.1.62 HE MIMO Control field) needs clarification. The text should call out number of bits and range of bits for Figure 9-121a.	Add the following underlined text (not underlined text) : The HE MIMO Control field is included in every HE Compressed Beamforming frame (see 9.4.1.63 (HE Compressed Beamforming Report field)). The HE MIMO Control field is 40-bits (B0-B39) and is defined in Figure 9-121a (HE MIMO Control field). The subfields and bit assignments (B0-B39) are defined and described in Table 9-7a (HE MIMO Control field encoding).		2017/1/9 9:42
3403	Albert Petrick	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3	3320	Table 9-262aa defines HE-PHY Capabilities Information field. Doppler subfield makes reference to Doppler Procedure. There is no text on "Doppler procedure" procedure needs to be defined.	Add technical detail content or remove "Doppler subfield from Table 262aa		2017/1/9 9:42
3404	Albert Petrick	225	1 9.4.1.62	56	30	T	Y	56.30 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "Nc Index " corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the number of columns, Nc, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B0-B2): Set to 0 for Nc = 1 Set to 1 for Nc = 2 ... Set to 7 for Nc = 8"		2017/1/9 9:42
3405	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3321	Doppler is not defined in clause 3.4 of IEEE 802.11-2016 (802.11 REVmc D8.0)	Add "Doppler" definition in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3406	Albert Petrick	225	1 9.4.1.62	56	38	T	Y	56.38 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "Nr Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "Indicates the number of rows, Nr, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B3-B5): Set to 0 for Nr = 1 Set to 1 for Nr = 2 ... Set to 7 for Nr = 8"		2017/1/9 9:42
3407	Albert Petrick	225	1 27.3.3.1	153	19	E	Y	153.19 27.3.3.1	3322	Extra period	Remove extra period from the end of the sentence.		2017/1/9 9:42
3408	Albert Petrick	225	1 9.4.1.62	56	45	T	Y	56.45 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "BW" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the channel width used to determine the starting and ending subcarrier indexes when interpreting the RU Start Index and RU End Index subfields. For 2-bits (B6-B7): Set to 0 for 20 MHz Set to 1 for 40 MHz Set to 2 for 80 MHz Set to 3 for 160 MHz and 80+80 MHz"		2017/1/9 9:42
3409	Albert Petrick	225	1 27.3.4.1	155	44	E	Y	155.44 27.3.4.1	3323	Paragraph misaligned	left justify paragraph		2017/1/9 9:42
3410	Albert Petrick	225	1 9.4.1.62	56	53	T	Y	56.53 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "Grouping" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (wilhout the underline) in "Description" column to read: "Indicates the subcarrier grouping, Ng, used for the compressed beamforming feedback matrix: Set bit (B8) as follows: Set to 0 for Ng = 4 Set to 1 for Ng = 16"		2017/1/9 9:42
3411	Albert Petrick	225	1 27.5.2.5	171	43	E	Y	171.43 27.5.2.5	3324	Extra parenthesis	Remove extra parenthesis at the end of sentence.		2017/1/9 9:42

3412	Albert Petrick	225	1 9.4.1.62	57	4	T	Y	57.04 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "Codebook Information" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline)in "Description" column to read: "Indicates the size of codebook entries: Set bit B9 for SU and MU Feedback types as follows: If Feedback Type is ....."	2017/1/9 9:42
3413	Albert Petrick	225	1 27.5.2.5	171	40	T	Y	171.40 27.5.2.5	3325	"ACs (#2190, 2191)" are remaining CID placeholders and not part of draft .11ax D1.0	Remove references to CIDs #2190, and 2191	2017/1/9 9:42
3414	Albert Petrick	225	1 9.4.1.62	57	14	T	Y	57.14 9.4.1.62		The bit positions in Table 9-76a for subfield "Feedback Type" should correspond to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the feedback type: For 2-bits (B10-B11) Set to 0 for SU Set to 1 for MU Set to 2 for CQI feedback 3 is reserved"	2017/1/9 9:42
3415	Albert Petrick	225	1 27.5.2.5	171	41	E	Y	171.41 27.5.2.5	3326	Table number missing for Table 9-XX (Delta TID subfield encoding).	Add Table number 9-18c	2017/1/9 9:42
3416	Albert Petrick	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "Remaining Feedback Segments" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (as not underlined text) in "Description" column to read: "Indicates the number of remaining feedback segments for the associated VHT Compressed Beamforming frame: For 3-bits (B12-B14) Set to 0 for the last feedback segment of a segmented report......"	2017/1/9 9:42
3417	Albert Petrick	225	1 9.3.1.22	42	7	E	Y	42.07 9.3.1.22	3327	Figure 9-52d Common Info field B20-B21 has a spelling error for "GIAnd LTF Type"	Change "GIAnd" to "GI And"	2017/1/9 9:42
3418	Albert Petrick	225	1 9.4.1.62	57	32	T	Y	57.32 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "First Feedback Segments" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Set bit (B15) as follows: Set to 1 for the first feedback segment of a segmented report or the only feedback segment of an unsegmented report. Set to 0 if not the first feedback segment or if the VHT....."	2017/1/9 9:42
3419	Albert Petrick	225	1 9.4.1.62	57	40	T	Y	57.40 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "RU Start Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "The starting RU index 7-Bits (B16-B22) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
3420	Albert Petrick	225	1 9.4.2.218.1	76	2	E	Y	76.02 9.4.2.218.1	3328	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3421	Albert Petrick	225	1 9.4.1.62	57	43	T	Y	57.43 9.4.1.62		Add clarity. Call out bit positions in Table 9-76a for subfield "RU End Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field.	Add the following underlined text (without the underline) in "Description" column to read: "The ending RU index 7-Bits (B23-B29) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
3422	Albert Petrick	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62		The description of the Sounding Dialog Token Number in Table 9-76a is not correct. This should be similar to the description in Table 9-66.	Delete the following text from the Description column: "The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback." Add the following text: The sounding dialog token is from the HE NDP Announcement frame soliciting feedback. "	2017/1/9 9:42
3423	Albert Petrick	225	1 9.4.1.62	57	49	T	Y	57.49 9.4.1.62		The "Reserved" subfield and description is missing in Table 9-76a. corresponding to Figure 121a.	At the end of Table 9-76a insert a new row and add the following underlined text (without the underline) "Reserved" in Subfield column, and the following text in Description column, "4-bits (B36-B39) are reserved."	2017/1/9 9:42
3424	Albert Petrick	225	1 9.4.2.218.5	89	38	E	Y	89.38 9.4.2.218.5	3329	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3425	Albert Petrick	225	1 9.4.1.63	58	28	T	Y	58.28 9.4.1.63		Equation (8-1) missing	Add reference and/or detailed equation (8-1)	2017/1/9 9:42
3426	Albert Petrick	225	1 9.4.2.218.5	89	13	E	Y	89.13 9.4.2.218.5	3330	Bit positions B0 - Bn not labeled on Figure 9-589cp--PPE Thresholds Info field format	Update Figure 9-589cp with Bit positions B0-Bn for groups of 3 bits per PPET16 and PPET8 subfields.	2017/1/9 9:42
3427	Albert Petrick	225	1 9.4.1.63	59	57	T	Y	59.57 9.4.1.63		In Table 9-76c, "FB" in 20, 40 and 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42

3428	Albert Petrick	225	1 9.4.1.63	61	57	T	Y	61.57 9.4.1.63		In Table 9-76d, "FB" in 20,40, 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
3429	Albert Petrick	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1	3331	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3430	Albert Petrick	225	1 9.4.1.63	59	38	T	Y	59.38 9.4.1.63		The S-tone and E-tone description needs clarification when comparing and referencing tables 9-76c and 9-76d.	Should read as follows lines 38 to 49: The S-tone and E-tone corresponding to the possible RU indices for 20MHz, 40MHz and 80 MHz channels are listed in Table 9-76c and Table 9-76d. Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4 are shown in Table 9-76c, and for Ng = 16 in Table 9-76d. For 160 MHz, to determine the S-tone and E-tone, RUs 37 to 73 occupying the higher 80 MHz use the same entries in Table 9-76c for Ng = 4 and Table 9-76d Ng = 16 as RUs 0 to 36 occupying the lower 80 MHz. For 20 MHz, scidx(i), where 1 ≤ i ≤ Ns Ns ≤ 2, includes all subcarrier indices between the S-tone and the E-tone subcarrier indices described in Table 9-76e (Feedback subcarrier indices for 20 MHz bandwidth for Ng = 4 and Ng = 16) for Ng = 4 and Ng = 16.	2017/1/9 9:42
3431	Albert Petrick	225	1 9.4.1.63	63	21	T	Y	63.21 9.4.1.63		Calculating the AveSNRi needs more clarification.	Add the following underlined text (without the underline) and remove the strikethrough text from lines 21 through 30 as follows: The AvgSNRi in Table 9-71 (Average SNR of Space-Time Stream i subfield) is found determined by computing the SNR per subcarrier in decibels for the subcarriers in 20 MHz channel bandwidth identified in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 , and for Ng = 16 in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16, and then The computing tThe arithmetic mean is calculated of for those values. Each SNR value per subcarrier in stream i (before being averaged) corresponds to the SNR associated with the column i of the beamforming feedback matrix V determined at the beamformee. Each SNR	2017/1/9 9:42
3432	Albert Petrick	225	1 9.4.1.63	63	4	E	Y	63.04 9.4.1.63		Spelling error "indeces" in Table 9-763	Change "indeces" to "indices"	2017/1/9 9:42
3433	Albert Petrick	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	3332	Extra period	Remove extra period at the end of sentence after the word "context"	2017/1/9 9:42
3434	Albert Petrick	225	1 9.4.1.64	64	48	T	Y	64.48 9.4.1.64		Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
3435	Albert Petrick	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	3333	Extra period	Remove extra period at the end of sentence after the word "allocation)"	2017/1/9 9:42
3436	Albert Petrick	225	1 9.4.1.64	64	53	T	Y	64.53 9.4.1.64		Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
3437	Albert Petrick	225	1 9.4.1.64	64	13	E	Y	64.13 9.4.1.64		Remove paragraph indent	Fix paragraph alignment starting at "No padding is present…."	2017/1/9 9:42
3438	Albert Petrick	225	1 27.5.2.2.1	164	53	E	Y	164.53 27.5.2.2.1	3335	Period missing at end of sentence	Add period at end of sentence after the word "S-MPDUs))"	2017/1/9 9:42
3439	Albert Petrick	225	1 9.4.1.64	64	18	T	Y	64.18 9.4.1.64		Equation (9-2) is referenced in the text and in Table 9-76f HE MU Exclusive Beamforming Report information, and is not linked or referenced to any other documents. Equation (9-2) should be linked and referenced to its location IEEE 802.11-2016 (Rev D8.0) and clarified as a "Note" at the end of Table 9-76f.	Add note for equation 9-2 in text and/or add the following underlined text (without the underline) and reference link in Table 9-76f as a Note: "as defined in Equation (9-2) in clause 9.4.1.51 (MU Exclusive Beamforming Report Field)"	2017/1/9 9:42

3440	Albert Petrick	225	1 9.4.1.64	64	30	T	Y	64.30 9.4.1.64		Equation (9-2) reference in Table 9-76f calls out subcarrier k=scidx(0) and k=scidx(1). Equation 9-2 in IEEE 802.11-2016 (Rev D8.0) in clause 9.4.1.51 specifies k=sscidx(0) and k=sscidx(1) There appears to be an ambiguity in equation in 9-2 and with k=scidx(_)	Fix references for subcarrier k=scidx(0) and k=scidx(1) in Table 9-76f (lines 30-54) to match assumptions with equation 9-2 in clause 9.4.1.51 in IEEE 802.11-2016 (Rev D8.0)	2017/1/9 9:42
3441	Albert Petrick	225	1 28.4.2	371	36	T	Y	371.36 28.4.2		Clarify "aSignalExtension" referenced from Table 19-25	Add the following underlined text (without the underline): and is aSignalExtension (0us for 5 GHz band, 6us for 2.4 GHz band)	2017/1/9 9:42
3442	Albert Petrick	225	1 27.5.2.2.1	164	56	E	Y	164.56 27.5.2.2.1	3338	Period missing at end of sentence	Add period at end of sentence after the word "behavior))"	2017/1/9 9:42
3443	Albert Petrick	225	1 28.4.2	371	39	E	Y	371.39 28.4.2		Missing period	Add period at the end of sentence after "false"	2017/1/9 9:42
3444	Albert Petrick	225	1 9.2.5.2	32	1	E	Y	32.01 9.2.5.2		Format error - sentence alignment	Sentence format needs to be left justified.	2017/1/9 9:42
3445	Albert Petrick	225	1 27.5.2.2.1	164	59	E	Y	164.59 27.5.2.2.1	3342	Period missing at end of sentence	Add period at end of sentence after the word "TIDs))"	2017/1/9 9:42
3446	Albert Petrick	225	1 9.3.1.9.1	34	12	T	Y	34.12 9.3.1.9.1		In Figure 9-33 (BA Control Field) Bit (B5) in the Reserve sub-field is marked as deleted (strikethrough) as shown. The Reserved subfield now shows 7-bits (B6-B11). The text does not describe B5. Define B5 or correct Figure 9-33	Fix as commented	2017/1/9 9:42
3447	Albert Petrick	225	1 B.4.27.2	413	45	E	Y	413.45 B.4.27.2		Numbering / letter (5GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "5GHz" to "5 GHz"	2017/1/9 9:42
3448	Albert Petrick	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3	3345	Extra period	Add period at end of sentence after the word "PPDU"	2017/1/9 9:42
3449	Albert Petrick	225	1 9.3.1.23	45	6	E	Y	45.06 9.3.1.23		Number / letter (2.4GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "2.4GHz" to "2.4 GHz"	2017/1/9 9:42
3450	Albert Petrick	225	1 9.4.2.218.2	76	24	E	Y	76.24 9.4.2.218.2		Format error - sentence alignment	Fix paragraph alignment - left justify.	2017/1/9 9:42
3451	Albert Petrick	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2	3348	Extra period	Add period at end of sentence after the word "width)"	2017/1/9 9:42
3452	Albert Petrick	225	1 9.4.2.218.2	77	55	E	Y	77.55 9.4.2.218.2	3349	Table 9-262z misaligned Equation in "Encoding" column. "Off" misspelled	Fix alignment of Eq Nmax = 2Maximum Number OFF-MPDUs. Change "Off" to "Off". Increase line spacing between sentences for aligning equation.	2017/1/9 9:42
3453	Albert Petrick	225	1 9.4.2.218.3	81	35	E	Y	81.35 9.4.2.218.3		In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield NSTA Total For < 80 MHz is labeled as having 2-bits. There are 3-bits (B37 -B39).	Change Bits "2" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9m-589cl	2017/1/9 9:42
3454	Albert Petrick	225	1 10.13.2	128	42	T	Y	128.42 10.13.2	3241	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3455	Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3		In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For < 80 MHz" is mark as having 1-bit. There are 3-bits (B46 -B48).	Change Bits "1" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9-589cl	2017/1/9 9:42
3456	Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3270	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For > 80 MHz" is labeled as 1-bit. There are 3-bits (B49 -B51).	Change Bits "1" to "3" for subfield "NSTS Total for > 80 MHz" in Figure 9-589cl	2017/1/9 9:42
3457	Albert Petrick	225	1 9.4.2.218.3	83	6	T	Y	83.06 9.4.2.218.3	3274	Add clarity. Call out bit positions in Table 9-262aa for subfield "Device Class" corresponding to those bit positions in Figure 9-589cl	In "Definition" column: Add "B12:" at the beginning of the sentence." In the "Encoding" column: Before sentence Add "B12:" "Set to 1 to indicate STA is a Class A device." In the "Encoding" column: Before sentence Add "B12:" Set to 0 to indicate STA is a Class B device. Note: This field is reserved when transmitting STA is an AP STA."	2017/1/9 9:42
3458	Albert Petrick	225	1 26.6.2	178	63	T	Y	178.63 26.6.2	3249	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3459	Albert Petrick	225	1 9.4.2.218.3	83	13	T	Y	83.13 9.4.2.218.3	3277	Add clarity and call out bit positions in Table 9-262aa for subfield "LDPC Coding In Payload" corresponding to those bit positions in Figure 9-589cl	Change text in "Definition" column to read: "B13: Indicates support of transmission....." Change text in "Encoding" column to read: "B13: Set to 1 to indicate STA... B13: Set to 9 otherwise. "	2017/1/9 9:42

3460	Albert Petrick	225	1 9.4.2.218.3	83	16	T	Y	83.16 9.4.2.218.3	3282	Add clarity and call out bit positions in Table 9-262 aa for subfield "HE-LTF And GI For HE PPDUs" corresponding to those bit positions in Figure 9-589cl	Change text in "Encoding column to read: "For B14 and B15: Set to 1 if supported by the STA. Set to 0 otherwise."	2017/1/9 9:42
3461	Albert Petrick	225	1 27.15.4.1	203	18	T	Y	203.18 27.15.4.1	3256	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3462	Albert Petrick	225	1 9.4.2.218.3	82	15	E	Y	82.15 9.4.2.218.3	3286	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 2.4 GHz.	2017/1/9 9:42
3463	Albert Petrick	225	1 9.4.2.1	67	16	T	Y	67.16 9.4.2.1	3260	HE Capabilities Element clause number incorrect in Table 9-77 Element IDs	Change clause number to "9.4.2.218"	2017/1/9 9:42
3464	Albert Petrick	225	1 9.4.2.1	67	20	T	Y	67.20 9.4.2.1	3263	The HE Operation Element clause number is incorrect in Table 9-77 Element IDs.	Change clause number to "9.4.2.219"	2017/1/9 9:42
3465	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3		Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
3466	Albert Petrick	225	1 28.3.14.3	342	53	T	Y	342.53 28.3.14.3	3359	CCDF not defined	Change "CCDF" to "complementary cumulative distribution function (CCDF)". Add definition for CCDF in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3467	Albert Petrick	225	1 9.3.1.20	40	1	E	Y	40.01 9.3.1.20	3361	Clause title should not be underlined.	Remove underline; Change to "VHT/HE NDP"	2017/1/9 9:42
3468	Albert Petrick	225	1 9.4.2.218.3	82	20	E	Y	82.20 9.4.2.218.3		Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
3469	Albert Petrick	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	3363	Parenthesis not needed in Figure 9-52c-Trigger frame	Remove parenthesis - Change "(RA)" to "RA" in Figure 9-52c-Trigger frame	2017/1/9 9:42
3470	Albert Petrick	225	1 9.3.1.23	41	59	E	Y	41.59 9.3.1.23	3365	Add space between sentences	Add space at end of sentence after the word "STA."	2017/1/9 9:42
3471	Albert Petrick	225	1 9.4.2.218.3	82	23	E	Y	82.23 9.4.2.218.3		Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
3472	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3		Table 9-262aa, "Encoding column" missing period at end of sentence	Fix. Change "Nole" to "NOTE" and add colon ":" after "NOTE:"	2017/1/9 9:42
3473	Albert Petrick	225	1 9.3.1.23	41	61	E	Y	41.61 9.3.1.23	3369	Add space between sentences	Add space at end of sentence after the word "address."	2017/1/9 9:42
3474	Albert Petrick	225	1 9.4.2.218.3	82	44	T	Y	82.44 9.4.2.218.3		Table 9-262aa, grammar issue	Change "of" to "on"	2017/1/9 9:42
3475	Albert Petrick	225	1 9.3.3.6	53	36	E	Y	53.36 9.3.3.6	3371	spelling hyphen error in Table 9-30	In Table 9-30 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3476	Albert Petrick	225	1 9.4.2.218.3	82	47	E	Y	82.47 9.4.2.218.3		Table 9-262aa, "Definition column" missing period at end of sentence and line between paragraphs	Fix. In the Definition column Add period "." after "punctured." and carriage return before B9, B10, and B11 on lines 47, 51, and 56. On line 60 add period after "is present."	2017/1/9 9:42
3477	Albert Petrick	225	1 9.3.3.8	54	30	E	Y	54.30 9.3.3.8	3373	spelling hyphen error in Table 9-32	In Table 9-32 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3478	Albert Petrick	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11	3374	spelling hyphen error in Table 9-34	In Table 9-34 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3479	Albert Petrick	225	1 9.4.2.218.3	93	25	E	Y	93.25 9.4.2.218.3		Table 9-262aa, missing period at the end of sentence	Fix. In the "Definition column", Add period "." after the "duration" on lines 25 and 29.	2017/1/9 9:42
3480	Albert Petrick	225	1 9.2.4.1.10	20	5	T	Y	20.05 9.2.4.1.10	3375	"HCT/Order subfield" naming should be consistent when referenced in text. It's referenced as "HTC/Order field"	Change to "HCT/Order subfield" on lines 5 and 7	2017/1/9 9:42
3481	Albert Petrick	225	1 9.4.2.218.3	83	34	E	Y	83.34 9.4.2.218.3		Table 9-262aa, missing period and colon in sentence.	Fix. In the "Definition column, Add period "." after the "stream" on lines 35 and 39. In Encoding column Add ":" after B18 on line 34 and B19 on line 37.	2017/1/9 9:42
3482	Albert Petrick	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1	3377	Reverse Direction Protocol (RDP) in Table 9-18a is missing reference "subclause reference" in the Content of the Control Information subfield.	Add the following clause reference: "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"	2017/1/9 9:42

3483	Albert Petrick	225	1 9.2.4.6.4.1	22	59	T	Y	22.59 9.2.4.6.4.1		In clause A-Control 9.2.6.4 the text needs to clarify the bit length in the Control ID subfields, describe the sequence ordering and state how many Control IDs are defined and reserved. The text should flow with Table 9-15b, and Table 9-18a.	Add the following underlined text (without the underline), and remove the strikethrough text from lines 59 to 65 on page 22 and lines 11 - 12 to read as follows: The A-Control subfield contains a sequence of one or more Control subfields. The format of each Control subfield is defined shown in Figure 9-15b (Control subfield format). The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence. The Control ID subfield as shown in Figure 9-15b (Control subfield format) is 4-bits in length and indicates the type of information carried in the Control Information subfield. The bit length of the Control Information subfield is fixed for each value of the Control ID subfield that is not reserved. The values of the Control ID subfield and the associated length of the Control Information subfield are		2017/1/9 9:42
3484	Albert Petrick	225	1 9.4.2.218.3	83	40	E	Y	83.40 9.4.2.218.3		Table 9-262aa, missing period and colon in sentence.	In the Definition column, Add colon ":" after B20 and B21. Add period after "procedure." on lines 41 and 43. In Encoding column Add colon after B20 on line 40 and B21 on line 43. Add extra line space between lines 41 and 42.		2017/1/9 9:42
3485	Albert Petrick	225	1 9.2.4.6.4.2	24	20	E	Y	24.20 9.2.4.6.4.2	3380	Editorial formatting error with Target receiver power, TRSSI,	Remove comma "," before TRSSI and change ", TRSSI" to "(TRSSI)"		2017/1/9 9:42
3486	Albert Petrick	225	1 9.4.2.218.3	83	58	E	Y	83.58 9.4.2.218.3		Table 9-262aa, missing period at the end of sentence.	Add period after "MU-MIMO" on line 58.		2017/1/9 9:42
3487	Albert Petrick	225	1 9.2.4.6.4.2	23	59	T	Y	23.59 9.2.4.6.4.2	3381	Provide more clarity: UL PPDU subfield. The text should reference the "5-bits" for UL PPDU Length field in Figure 9-15c	Insert text "is 5-bits (B0-B4) that" after the word subfield.		2017/1/9 9:42
3488	Albert Petrick	225	1 9.4.2.218.3	82	11	T	Y	82.11 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "Dual Band Support" corresponding to those bit positions in Figure 9-589cl	Add bit B0 in Definition column Change to: "B0 indicates support of both…."		2017/1/9 9:42
3489	Albert Petrick	225	1 9.2.4.6.4.6	27	39	T	Y	27.39 9.2.4.6.4.6	3382	No reference to the bits in the Reserve subfield In 9.2.4.6.4.6.	Add the following sentence "Bits (B6-B7) are reserved." after the sentence on line 39.		2017/1/9 9:42
3490	Albert Petrick	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "UL HE MU PPDU Payload Support" corresponding to those bit positions in Figure 9-589cl	Add bit B30 in Definition column Change to: "B30 indicates that the STA supports the reception of……"		2017/1/9 9:42
3491	Albert Petrick	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	3384	The bits in Table 9-15i should be called in the text for clarification.	Add the following underlined text. The Control Information 8-bit subfield for the RDP Trigger frame is shown in Figure 9-15i (Control Information subfield format when the Control ID subfield is 6), 6-bits (B2-B7) are reserved. The AC Constraint subfield bit (B0) of the RDP field indicates whether the mapped AC of an RD Data frame is constrained to a single AC, and is defined in Table 9-10 (AC Constraint subfield values), except that if B0 equals a value of 1 indicates that the response from an HE STA contains Data frames from the same AC or higher AC as defined in 10.28.4 (Rules for RD responder). The RDG/More PPDU subfield bit (B1) is defined in Table 9-11 (RDG/More PPDU subfield values).		2017/1/9 9:42
3492	Albert Petrick	225	1 9.4.2.218.3	84	31	T	Y	84.31 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B31 in Definition column Change to: "B31 indicates support for operation as an SU beamformer."		2017/1/9 9:42
3493	Albert Petrick	225	1 9.3.1.24	41	23	T	Y	41.23 9.3.1.24	3385	CQI acronym not defined in Table 9-25a	Add definiion for CQI in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42

3494	Albert Petrick	225	1 9.4.2.218.3	84	36	T	Y	84.36 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformee" corresponding to those bit positions in Figure 9-589cl	Add bit B32 in Definition column Change to: "B32 indicates support for operation as an SU beamformee."	2017/1/9 9:42
3495	Albert Petrick	225	1 9.4.2.218.3	82	12	E	Y	82.12 9.4.2.218.3	3387	Missing period after sentences in Table 9-262aa	Add "periods" after each sentence in the Definition and Encoding columns in Table 9-262aa	2017/1/9 9:42
3496	Albert Petrick	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "MU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B33 in Definition column Change to: "B33 indicates support for operation as an MU beamformer."	2017/1/9 9:42
3497	Albert Petrick	225	1 9.4.2.218.5	89	36	T	Y	89.36 9.4.2.218.5	3388	PPET, PPET8 and PPET16 acronym not defined	Add definitions for PPET, PPET8 and PPET16 in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3498	Albert Petrick	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3	3267	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamforemee STS For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B34-B36 in Definition column Change to: "B34-B36 indicates the maximum number of space-time streams the STA can receive in an HE NDP."	2017/1/9 9:42
3499	Albert Petrick	225	1 9.4.2.221	94	56	T	Y	94.56 9.4.2.221	3244	MUEDCATimer not defined	Add definition for MUEDCATimer in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3500	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3246	Sentence center justified should be left justified	Left justify sentence; "A STA for which dot11HEOptionImplemented is true shall set dot11VeryHighThroughputOptionImplemented or dot11HighThroughputOptionImplemented to true."	2017/1/9 9:42
3501	Albert Petrick	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3	3272	Add clarity and call out bit positions in Table 9-262aa for subfield "NTST Total For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B37-B39 in Definition column Change to: "B37-B39 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
3502	Albert Petrick	225	1 28.3.11.5	317	32	T	Y	317.32 28.3.11.5	3251	BCC acronym not defined	Add definition for "BCC = binary convolutional code" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3503	Albert Petrick	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3	3276	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamformee STS for > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B40-B42 in Definition column Change to: "B40-B42 indicates the maximum number for.....HE NDP."	2017/1/9 9:42
3504	Albert Petrick	225	1 28.3.11.5	317	33	T	Y	317.33 28.3.11.5	3252	LDPC acronym not defined	Add definition for "LDPC = low density parity check " in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3505	Albert Petrick	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	3281	Add clarity and call out bit positions in Table 9-262aa for subfield "NSTS Total For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B44-B45 in Definition column Change to: "B43-B45 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
3506	Albert Petrick	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23	3255	Space missing between words in GIAnd LTF Type subfield of Figure 9-52	Add character space between the letters "IA" in "GIAnd LTF Type". Should read as "GI And LTF Type"	2017/1/9 9:42
3507	Albert Petrick	225	1 9.4.2.218.3	85	20	T	Y	85.20 9.4.2.218.3	3285	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B46-B48 in Definition column Change to: "B46-B48 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
3508	Albert Petrick	225	1 9.4.1.62	56	15	E	Y	56.15 9.4.1.62	3259	Table 9-121a bit positions misaligned	Fix bit alignment with each subfield and resize Figure 9-121a to fit center of page.	2017/1/9 9:42
3509	Albert Petrick	225	1 9.4.2.218.3	85	22	E	Y	85.22 9.4.2.218.3		Missing period at end of sentence in Definition column of Table 9-262aa.	Add period at the end of sentence "HE NDP"	2017/1/9 9:42
3510	Albert Petrick	225	1 9.4.1.62	56	4	T	Y	56.04 9.4.1.62	3261	The text in Clause 9.4.1.62 HE MIMO Control field) needs clarification. The text should call out number of bits and range of bits for Figure 9-121a.	Add the following underlined text (not underlined text) . The HE MIMO Control field is included in every HE Compressed Beamforming frame (see 9.4.1.63 (HE Compressed Beamforming Report field)). The HE MIMO Control field is 40-bits (B0-B39) and is defined in Figure 9-121a (HE MIMO Control field). The subfields and bit assignments (B0-B39) are defined and described in Table 9-7a (HE MIMO Control field encoding).	2017/1/9 9:42

3511	Albert Petrick	225	1 9.4.2.218.3	85	26	T	Y	85.26 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B48-B51 in Definition column Change to: "B49-B51 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
3512	Albert Petrick	225	1 9.4.1.62	56	30	T	Y	56.30 9.4.1.62	3404	Add clarity. Call out bit positions in Table 9-76a for subfield "Nc Index " corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the number of columns, Nc, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B0-B2): Set to 0 for Nc = 1 Set to 1 for Nc = 2 ... Set to 7 for Nc = 8"	2017/1/9 9:42
3513	Albert Petrick	225	1 9.4.1.62	56	38	T	Y	56.38 9.4.1.62	3406	Add clarity. Call out bit positions in Table 9-76a for subfield "Nr Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "Indicates the number of rows, Nr, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B3-B5): Set to 0 for Nr = 1 Set to 1 for Nr = 2 ... Set to 7 for Nr = 8"	2017/1/9 9:42
3514	Albert Petrick	225	1 9.4.2.218.3	85	28	E	Y	85.28 9.4.2.218.3		Missing period at end of sentence in Definition column of Table 9-262aa.	Fix. Add period at the end of sentence "HE NDP."	2017/1/9 9:42
3515	Albert Petrick	225	1 9.4.1.62	56	45	T	Y	56.45 9.4.1.62	3408	Add clarity. Call out bit positions in Table 9-76a for subfield "BW" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the channel width used to determine the starting and ending subcarrier indexes when interpreting the RU Start Index and RU End Index subfields. For 2-bits (B6-B7): Set to 0 for 20 MHz Set to 1 for 40 MHz Set to 2 for 80 MHz Set to 3 for 160 MHz and 80+80 MHz"	2017/1/9 9:42
3516	Albert Petrick	225	1 9.4.2.218.3	85	29	E	Y	85.29 9.4.2.218.3		Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
3517	Albert Petrick	225	1 9.4.1.62	56	53	T	Y	56.53 9.4.1.62	3410	Add clarity. Call out bit positions in Table 9-76a for subfield "Grouping" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates tes the subcarrier grouping, Ng, used for the compressed beamforming feedback matrix: Set bit (B8) as follows: Set to 0 for Ng = 4 Set to 1 for Ng = 16"	2017/1/9 9:42
3518	Albert Petrick	225	1 9.4.1.62	57	4	T	Y	57.04 9.4.1.62	3412	Add clarity. Call out bit positions in Table 9-76a for subfield "Codebook Information" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline)in "Description" column to read: "Indicates the size of codebook entries: Set bit B9 for SU and MU Feedback types as follows: If Feedback Type is ....."	2017/1/9 9:42
3519	Albert Petrick	225	1 9.4.1.62	57	14	T	Y	57.14 9.4.1.62	3414	The bit positions in Table 9-76a for subfield "Feedback Type" should correspond to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the feedback type: For 2-bits (B10-B11) Set to 0 for SU Set to 1 for MU Set to 2 for CQI feedback 3 is reserved"	2017/1/9 9:42
3520	Albert Petrick	225	1 9.4.2.218.3	85	24	E	Y	85.24 9.4.2.218.3		Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
3521	Albert Petrick	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62	3416	Add clarity. Call out bit positions in Table 9-76a for subfield "Remaining Feedback Segments" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (as not underlined text) in "Description" column to read: "Indicates the number of remaining feedback segments for the associated VHT Compressed Beamforming frame: For 3-bits (B12-B14) Set to 0 for the last feedback segment of a segmented report......"	2017/1/9 9:42
3522	Albert Petrick	225	1 9.4.2.218.3	85	31	T	Y	85.31 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For SU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B52 in Definition column Change to: "B52 indicates if the HE beamformee....."	2017/1/9 9:42

3523	Albert Petrick	225	1 9.4.1.62	57	32	T	Y	57.32 9.4.1.62	3418	Add clarity. Call out bit positions in Table 9-76a for subfield "First Feedback Segments" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Set bit (B15) as follows: Set to 1 for the first feedback segment of a segmented report or the only feedback segment of an unsegmented report. Set to 0 if not the first feedback segment or if the VHT....."		2017/1/9 9:42
3524	Albert Petrick	225	1 9.4.2.218.3	85	35	T	Y	85.35 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For MU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B53 in Definition column Change to: "B53 indicates if the HE beamformee....."		2017/1/9 9:42
3525	Albert Petrick	225	1 9.4.1.62	57	40	T	Y	57.40 9.4.1.62	3419	Add clarity. Call out bit positions in Table 9-76a for subfield "RU Start Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "The starting RU index 7-Bits (B16-B22) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."		2017/1/9 9:42
3526	Albert Petrick	225	1 9.4.2.218.3	85	37	E	Y	85.37 9.4.2.218.3		In Table 9-262aa missing period at the end of sentence.	Add period after "MU-type feedback."		2017/1/9 9:42
3527	Albert Petrick	225	1 9.4.1.62	57	43	T	Y	57.43 9.4.1.62	3421	Add clarity. Call out bit positions in Table 9-76a for subfield "RU End Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field.	Add the following underlined text (without the underline) in "Description" column to read: "The ending RU index 7-Bits (B23-B29) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."		2017/1/9 9:42
3528	Albert Petrick	225	1 9.4.2.218.3	85	39	T	Y	85.39 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (𝜓, 𝜎Ω) = (4, 2) For SU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B54 in Definition column Change to: "B54 indicates if the HE beamformee....."		2017/1/9 9:42
3529	Albert Petrick	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62		The description of the Sounding Dialog Token Number in Table 9-76a is not correct. This should be similar to the description in Table 9-66.	Add the following underlined text (without the underline) and remove the strikethrough text in "Description" column to read: "The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback. The sounding dialog token is from the HE NDP Announcement frame soliciting feedback. "		2017/1/9 9:42
3530	Albert Petrick	225	1 9.4.2.218.3	85	44	T	Y	85.44 9.4.2.218.3		Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (𝜓, 𝜎Ω) = (7,5) For MU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B55 in Definition column Change to: "B55 indicates if the HE beamformee....."		2017/1/9 9:42
3531	Albert Petrick	225	1 9.4.1.62	57	49	T	Y	57.49 9.4.1.62	3423	The "Reserved" subfield and description is missing in Table 9-76a. corresponding to Figure 121a.	At the end of Table 9-76a insert a new row and add the following underlined text (without the underline) "Reserved" in Subfield column, and the following text in Description column. "4-bits (B36-B39) are reserved."		2017/1/9 9:42
3532	Albert Petrick	225	1 9.4.2.218.3	85	50	E	Y	85.50 9.4.2.218.3		In Table 9-262aa, Missing periods and line spacing between sentences.	In the "Definition" column, Add period at the end of sentences e.i., after "feedback." on lines 50, 52, 54, 57, 59 and 61. Add line space carriage return after "feedback on lines 50, 52, 54, 57 and 59. In "Encoding" column, Add line spacing carriage return after "otherwise." on line 55.		2017/1/9 9:42
3533	Albert Petrick	225	1 9.4.1.63	58	28	T	Y	58.28 9.4.1.63	3425	Equation (8-1) missing	Add reference and/or detailed equation (8-1)		2017/1/9 9:42
3534	Albert Petrick	225	1 9.4.2.218.3	86	6	T	Y	86.06 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "HE ER SU Payload" corresponding to those bit positions in Figure 9-589cl.	Add bit B59 in Definition column Change to: "B59: indicates the support of transmission....."		2017/1/9 9:42
3535	Albert Petrick	225	1 9.4.1.63	59	57	T	Y	59.57 9.4.1.63	3427	In Table 9-76c, "FB" in 20, 40 and 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.		2017/1/9 9:42
3536	Albert Petrick	225	1 9.4.2.218.3	86	11	T	Y	86.11 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" corresponding to those bit positions in Figure 9-589cl.	Add bit B60 in Definition column Change to: "B60: indicates the non-AP STA supports....."		2017/1/9 9:42

3537	Albert Petrick	225	1 9.4.1.63	61	57	T	Y	61.57 9.4.1.63	3428	In Table 9-76d, "FB" in 20,40, 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
3538	Albert Petrick	225	1 9.4.2.218.3	86	14	T	Y	86.14 9.4.2.218.3		Add clarity and call out a "Note" reference in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" in the Encoding column.	Add change to read: "Note: This field is reserved for an AP."	2017/1/9 9:42
3539	Albert Petrick	225	1 9.4.1.63	59	38	T	Y	59.38 9.4.1.63		The S-tone and E-tone description needs clarification when comparing and referencing tables 9-76c and 9-76d.	Add underlined text (without the underline) and remove strikethrough text from line 38 to 49 as follows: The S-tone and E-tone corresponding to the possible RU indices for 20MHz, 40MHz and 80 MHz channels are listed in Table 9-76c and Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 are shown in Table 9-76c, and for Ng = 16 for in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16. For 160 MHz, to determine the S-tone and E-tone, RUs 37 to 73 occupying the higher 80 MHz use the same entries in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) and Table 9-76d (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index Ng = 16) as	2017/1/9 9:42
3540	Albert Petrick	225	1 9.4.2.218.3	86	16	T	Y	86.16 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "PPE Threshold Present" corresponding to those bit position in Figure 9-589cl.	Add bit B61 in Definition column Change to: "B61: indicates whether or no the PPE....."	2017/1/9 9:42
3541	Albert Petrick	225	1 9.4.1.63	63	21	T	Y	63.21 9.4.1.63	3431	Calculating the AveSNRi needs more clarification.	Add the following underlined text (without the underline) and remove the strikethrough text from lines 21 through 30 as follows: The AvgSNRi in Table 9-71 (Average SNR of Space-Time Stream i subfield) is found determined by computing the SNR per subcarrier in decibels for the subcarriers in 20 MHz channel bandwidth identified in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 , and for Ng = 16 in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16, and then The computing tThe arithmetic mean is calculated of for those values. Each SNR value per subcarrier in stream i (before being averaged) corresponds to the SNR associated with the column i of the beamforming feedback matrix V determined at the beamformee. Each SNR	2017/1/9 9:42
3542	Albert Petrick	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "SRP-based SR Support" corresponding to those bit position in Figure 9-589cl.	Add bit B62 in Definition column Change to: "B62: indicates that the STA supports SRP-based....."	2017/1/9 9:42
3543	Albert Petrick	225	1 9.4.1.63	63	4	E	Y	63.04 9.4.1.63	3432	Spelling error "indeces" in Table 9-763	Change "indeces" to "indices"	2017/1/9 9:42
3544	Albert Petrick	225	1 9.4.2.218.3	86	19	E	Y	86.19 9.4.2.218.3		In Table 9-262aa, missing period after sentence.	Add period "." at the end of sentence after "operation."	2017/1/9 9:42
3545	Albert Petrick	225	1 9.4.1.64	64	48	T	Y	64.48 9.4.1.64	3434	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
3546	Albert Petrick	225	1 9.4.2.218.3	86	21	T	Y	86.21 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "Power Boost Factor +Yr Support" corresponding to those bit position in Figure 9-589cl.	Add bit B63 in Definition column Change to: "B63: indicates that the STA supports....."	2017/1/9 9:42
3547	Albert Petrick	225	1 9.4.1.64	64	53	T	Y	64.53 9.4.1.64	3436	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42

3548	Albert Petrick	225	1 9.4.2.218.3	86	22	E	Y	86.22 9.4.2.218.3		In Table 9-262aa, missing period after sentence.	Add period at the end of sentence after "range [0.5, 2]."	2017/1/9 9:42
3549	Albert Petrick	225	1 9.4.1.64	64	13	E	Y	64.13 9.4.1.64	3437	Remove paragraph indent	Fix paragraph alignment starting at "No padding is present...."	2017/1/9 9:42
3550	Albert Petrick	225	1 9.4.2.218.3	86	24	T	Y	86.24 9.4.2.218.3		Add clarity and call out bit position in Table 9-262aa for subfield "4x HE-LTF And 0.8 us GI Support For HE PPDUs" corresponding to those bit position in Figure 9-589cl.	Add bit B64 in Definition column Change to: "B64: indicates for the reception of 4x LTF....."	2017/1/9 9:42
3551	Albert Petrick	225	1 9.4.1.64	64	18	T	Y	64.18 9.4.1.64	3439	Equation (9-2) is referenced in the text and in Table 9-76f HE MU Exclusive Beamforming Report information, and is not linked or referenced to any other documents. Equation (9-2) should be linked and referenced to its location IEEE 802.11-2016 (Rev D8.0) and clarified as a "Note" at the end of Table 9-76f.	Add note for equation 9-2 in text and/or add the following underlined text (without the underline) and reference link in Table 9-76f as a Note: "as defined in Equation (9-2) in clause 9.4.1.51 (MU Exclusive Beamforming Report Field)"	2017/1/9 9:42
3552	Albert Petrick	225	1 9.4.2.218.3	86	28	T	Y	86.28 9.4.2.218.3		Missing "Reserve" Subfield, and text for Definition and Encoding in Table 9-262aa. The Reserve subfield should correspond to the 7 bit positions B65 -B71 in Figure 9-589Cl.	At the end of Table 9-262-aa. Add "Reserved" in Subfield column. Add text (see underlined text) "B65 - B71 (7-bits) are reserved." Encoding column leave blank.	2017/1/9 9:42
3553	Albert Petrick	225	1 9.4.1.64	64	30	T	Y	64.30 9.4.1.64	3440	Equation (9-2) reference in Table 9-76f calls out subcarrier k=scidx(0) and k=scidx(1). Equation 9-2 in IEEE 802.11-2016 (Rev D8.0) in clause 9.4.1.51 specifies k=sscidx(0) and k=sscidx(1) There appears to be an ambiguity in equation in 9-2 and with k=scidx(_)	Fix references for subcarrier k=scidx(0) and k=scidx(1) in Table 9-76f (lines 30-54) to match assumptions with equation 9-2 in clause 9.4.1.51 in IEEE 802.11-2016 (Rev D8.0)	2017/1/9 9:42
3554	Albert Petrick	225	1 9.4.2.218.3	86	31	T	Y	86.31 9.4.2.218.3		Class A STAs are declared "high capability devices" and class B STAs as "low capability devices" This is the only reference in .11axD1.0 to these terms. Class A and class B STAs are defined in sub-clause 28.3.14 (Transmit requirements for an HE trigger-based PPDU). Transmit power accuracy and RSSI measurement accuracy are discussed in detail e.g., Table 28-40. To eliminate ambiguities, "low and high capability devices" should be defined and referenced back to clause 28.3.14.	Add definition for "low and high capability" devices in clause 28.3.14, and add text reference back to clause 28.3.14. Add underline text (without the underline) to read: "Class A STAs are high capability devices and class B STAs are low capability devices as described in 28.3.14 (Transmit requirements for an HE trigger-based PPDU).	2017/1/9 9:42
3555	Albert Petrick	225	1 28.4.2	371	36	T	Y	371.36 28.4.2	3441	Clarify "aSignalExtension" referenced from Table 19-25	Add the following underlined text (without the underline): and is aSignalExtension (0us for 5 GHz band, 6us for 2.4 GHz band)	2017/1/9 9:42
3556	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2		The "Value" column in Table 18-1 (TXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 17-1 in subclause 17.2.2.1 of .11axD1.0, or Table 18-1, 18-3 in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.	2017/1/9 9:42
3557	Albert Petrick	225	1 28.4.2	371	39	E	Y	371.39 28.4.2	3443	Missing period	Add period at the end of sentence after "false"	2017/1/9 9:42
3558	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2		The "Value" column in Table 18-3 (RXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 18-3 in subclause 17.2.2.1 of .11axD1.0, or Tables 18-1, 18-3, in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.	2017/1/9 9:42
3559	Albert Petrick	225	1 9.2.5.2	32	1	E	Y	32.01 9.2.5.2	3444	Format error - sentence alignment	Sentence format needs to be left justified.	2017/1/9 9:42

3560	Albert Petrick	225	1 28.3.18.4.4	355	38	T	Y	355.38 28.3.18.4.4		The EVM for MCS7 (-27 dB) is based on the maximum tx power of MCS7. Clarification is needed why it is being used for BPSK...64-QAM as shown in Table 28-45. The EVM value was selected for UL OFDMA PPDUs. This should be noted or expanded in the text in clause 28.3.18.4.4	Add the following underlined text (without the underline) in the "Note" on line 40 in Table 28-45 as follows: "which EVM is test is conducted. "EVM of -27 dB, is used when the Tx Power is less than the maximum power of MCS7, and assists the AP in managing RUs for UL OFDMA PPDU transmissions."	2017/1/9 9:42
3561	Albert Petrick	225	1 9.3.1.9.1	34	12	T	Y	34.12 9.3.1.9.1	3446	In Figure 9-33 (BA Control Field) Bit (B5) in the Reserve sub-field is marked as deleted (strikethrough) as shown. The Reserved subfield now shows 7-bits (B6-B11). The text does not describe B5. Define B5 or correct Figure 9-33	Fix as commented	2017/1/9 9:42
3562	Albert Petrick	225	1 9.4.2.218.2	76	47	E	Y	76.47 9.4.2.218.2		In Figure 9-589ck - (HE MAC PHY Capabilities Information field format) subfield "Group Addressed Multi-STA BlockAck In DL MU Support" is mark as having 4-bits. This is not correct. There is 1-bit assigned (B24).	Change Bits "4" to "1" for subfield "Group Addressed Multi-STA BlockAck In DL MU Support" in Figure 9-589ck.	2017/1/9 9:42
3563	Albert Petrick	225	1 B.4.27.2	413	45	E	Y	413.45 B.4.27.2	3447	Numbering / letter (5GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "5GHz" to "5 GHz"	2017/1/9 9:42
3564	Albert Petrick	225	1 28.3.17.3	345	64	E	Y	345.64 28.3.17.3		Missing Table number reference in clause 28.3.17.3	Change "Table xx-a" to "Table 28-41"	2017/1/9 9:42
3565	Albert Petrick	225	1		2	T	Y		3287	.11ax D1.0 makes reference to IEEE P802.11REVmc-D8.0, which is essentially IEEE P802.11-2016 (the new rollup baseline standard) and soon to be published in 2017. Once it is published, P802.11REVmc-D8.0 will be removed from the IEEE 802.11 working group members area on the website and will not be available in public domain on the IEE 802.11 work group document server for public use. All references in .11ax D1.0 to clauses in the baseline standard should be made to IEEE P802.11-2016 and not to IEEE P802.11REVmc-D8.0.	Remove IEEE P802.11REVmc(TM)/D8.0 and replace with IEEE P802.11-2016	2017/1/9 9:42
3566	Albert Petrick	225	1 9.3.1.23	45	6	E	Y	45.06 9.3.1.23	3449	Number / letter (2.4GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "2.4GHz" to "2.4 GHz"	2017/1/9 9:42
3567	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4		Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
3568	Albert Petrick	225	1			G	Y		3288	The title of the column headers in ALL of the tables need to be formatted; 1) center text in title. 2) lock 1st row of table to continue on next page.	Fix and format ALL tables headers (1st row) and enable 1st row to roll-over on next page when tables don't fit on current page.	2017/1/9 9:42
3569	Albert Petrick	225	1			G	Y		3289	Throughout .11ax D1.0 there are references where some bits have hyphens and others do not e.g., 1 bit, and 1-bit . The text, Tables and Figures should be consistent using "hyphens" as used in IEEE 802.11-2016.	Fix. Include hyphens in text, Tables and Figures similar to the format utilized in baseline IEEE 802.11-2016	2017/1/9 9:42
3570	Albert Petrick	225	1 9.4.2.218.2	76	24	E	Y	76.24 9.4.2.218.2	3450	Format error - sentence alignment	Fix paragraph alignment - left justify.	2017/1/9 9:42
3571	Albert Petrick	225	1			G	Y		3290	Throughout .11ax D1.0 cross-reference links in text to tables, figures, equations, clauses and sub-clauses either broken, and non-existent.	Fix cross-reference links in text, tables, figures, equations and external links	2017/1/9 9:42
3572	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4		Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
3573	Albert Petrick	225	1 9.4.2.218.3	81	35	E	Y	81.35 9.4.2.218.3	3453	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield NSTA Total For < 80 MHz is labeled as having 2-bits. There are 3-bits (B37 -B39).	Change Bits "2" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9m-589cl	2017/1/9 9:42
3574	Albert Petrick	225	1			G	Y		3291	Throughout .11ax D1.0 the alignment of the terms in equations and spacing between paragraph text and equations need to be centered on the pages.	Fix spacing of terms in equations and space of text between equations.	2017/1/9 9:42
3575	Albert Petrick	225	1 28.3.18.4.4	357	11	E	Y	357.11 28.3.18.4.4		Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42

3576	Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3455	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For < 80 MHz" is mark as having 1-bit. There are 3-bits (B46 -B48).	Change Bits "1" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9-589cl	2017/1/9 9:42
3577	Albert Petrick	225	1 3.4	7	13	E	Y	7.13 3.4	3292	hyphen error -- hyphen between the words frequency and division "Orthogonal frequency-division multiple access" The use of hyphens should be consistent with what is used in IEEE 802.11-2016.	Remove hyphen after "frequency"	2017/1/9 9:42
3578	Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3270	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For > 80 MHz" is labeled as 1-bit. There are 3-bits (B49 -B51).	Change Bits "1" to "3" for subfield "NSTS Total for > 80 MHz" in Figure 9-589cl	2017/1/9 9:42
3579	Albert Petrick	225	1 4.3.14a	9	33	T	Y	9.33 4.3.14a	3293	"RU" not defined	Add definition for "RU" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3580	Albert Petrick	225	1 28.3.18.4.4	357	14	E	Y	357.14 28.3.18.4.4		Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42
3581	Albert Petrick	225	1 9.4.2.218.3	83	6	T	Y	83.06 9.4.2.218.3	3274	Add clarity. Call out bit positions in Table 9-262aa for subfield "Device Class" corresponding to those bit positions in Figure 9-589cl	In "Definition" column: Add "B12:" at the beginning of the sentence." In the "Encoding" column: Before sentence Add "B12:" "Set to 1 to indicate STA is a Class A device." In the "Encoding" column: Before sentence Add "B12:" Set to 0 to indicate STA is a Class B device. Note: This field is reserved when transmitting STA is an AP STA."	2017/1/9 9:42
3582	Albert Petrick	225	1 6.3.4.2.2	11		E	Y	11.00 6.3.4.2.2	3294	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3583	Albert Petrick	225	1 28.3.11.13	331	48	E	Y	331.48 28.3.11.13		Misspelling in PPDU BW in Table 28-31 Pilot indices for 52-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-31	2017/1/9 9:42
3584	Albert Petrick	225	1 9.4.2.218.3	83	13	T	Y	83.13 9.4.2.218.3	3277	Add clarity and call out bit positions in Table 9-262aa for subfield "LDPC Coding In Payload" corresponding to those bit positions in Figure 9-589cl	Change text in "Definition" column to read: "B13: Indicates support of transmission...." Change text in "Encoding" column to read: "B13: Set to 1 to indicate STA... B13: Set to 9 otherwise.. "	2017/1/9 9:42
3585	Albert Petrick	225	1 28.3.11.13	332	30	E	Y	332.30 28.3.11.13		Misspelling in PPDU BW in Table 28-33 Pilot indices for 106-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-33	2017/1/9 9:42
3586	Albert Petrick	225	1 9.4.2.218.3	83	16	T	Y	83.16 9.4.2.218.3	3282	Add clarity and call out bit positions in Table 9-262 aa for subfield "HE-LTF And GI For HE PPDUs" corresponding to those bit positions in Figure 9-589cl	Change text in "Encoding column to read: "For B14 and B15: Set to 1 if supported by the STA. Set to 0 otherwise."	2017/1/9 9:42
3587	Albert Petrick	225	1 6.3.7.4.2	12	25	E	Y	12.25 6.3.7.4.2	3295	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3588	Albert Petrick	225	1 9.4.2.218.3	82	15	E	Y	82.15 9.4.2.218.3	3286	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 2.4 GHz.	2017/1/9 9:42
3589	Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13		Misspelling in PPDU BW in Table 28-34 Pilot indices for 242-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-34	2017/1/9 9:42
3590	Albert Petrick	225	1 27.4.2	158	30	E	Y	158.30 27.4.2	3296	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3591	Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13		Misspelling in PPDU BW in Table 28-36 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-36	2017/1/9 9:42
3592	Albert Petrick	225	1 28.3.11.13	334	43	E	Y	334.43 28.3.11.13		Misspelling in PPDU BW in Table 28-37 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-37	2017/1/9 9:42
3593	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3465	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
3594	Albert Petrick	225	1 28.3.12	339	3	E	Y	339.03 28.3.12		Grammar error in text referencing Table 28-38 in clause 28.3.12	Add underlined text (without the underline) to read: "The 3-bit Packet Extension field in HE-SIG-A is defined as shown in Table 28-38.....HE-SIG-A)."	2017/1/9 9:42
3595	Albert Petrick	225	1 27.4.2	158	51	E	Y	158.51 27.4.2	3297	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3596	Albert Petrick	225	1 28.3.11.1	314	36	E	Y	314.36 28.3.11.1		Spelling error "non STBC" in several clauses in .11axD1.0. Not consistent with IEEE 802.11-2016.	Global change text "non STBC" to "non-STBC" (add hyphen after non) throughout .11axD1.0, in text, Figures, Tables and subclause headers.	2017/1/9 9:42
3597	Albert Petrick	225	1 9.4.2.218.3	82	20	E	Y	82.20 9.4.2.218.3	3468	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42

3598	Albert Petrick	225	1 28.3.10.7.2	281		E	Y	281.00 28.3.10.7.2		Missing period in Table 28-18	Add period. Change "is punctured" to "is punctured."	2017/1/9 9:42
3599	Albert Petrick	225	1 27.4.4	160	160	E	Y	161.60 27.4.4	3298	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3600	Albert Petrick	225	1 28.3.10.7.2	276	44	T	Y	276.44 28.3.10.7.2		Table 28-17 referencing B11-B14 Spatial Reuse suggests the need for more development. This is a place holder e.g., TBD.	Delete note in Table 28-17: NOTE: this part needs further development.	2017/1/9 9:42
3601	Albert Petrick	225	1 9.4.2.218.3	82	23	E	Y	82.23 9.4.2.218.3	3471	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
3602	Albert Petrick	225	1 27.4.4.1	160	45	E	Y	160.45 27.4.4.1	3299	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3603	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3472	Table 9-262aa, "Encoding column" missing period at end of sentence	Fix. Change "Note" to "NOTE" and add colon ":" after "NOTE:"	2017/1/9 9:42
3604	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3		Period missing at end of sentence	Add period at the end of the sentence after "preamble".	2017/1/9 9:42
3605	Albert Petrick	225	1 9.4.2.218.3	82	44	T	Y	82.44 9.4.2.218.3	3474	Table 9-262aa, grammar issue	Change "of" to "on"	2017/1/9 9:42
3606	Albert Petrick	225	1 28.3.14.3	342	45	T	Y	342.45 28.3.14.3		In clause 28.3.14.3 transmit power requirements and RSSI measurement accuracy requirements are defined for signal level ranges in dBm operating in the 2.4 GHz and 5GHz bands. The requirements are defined for nominal (room) temperature conditions. Specifying transmit power measurements and RSSI accuracy measurements over temperature is implementation dependent and could be regulatory dependent. Specifying a specific operation temperature drives an implementation and is out-of-scope of the standard.	Delete sentence: "The requirements are for nominal (room) temperature conditions."	2017/1/9 9:42
3607	Albert Petrick	225	1 9.4.2.218.3	82	47	E	Y	82.47 9.4.2.218.3	3476	Table 9-262aa, "Definition column" missing period at end of sentence and line between paragraphs	Fix. In the Definition column Add period "." after "punctured." and carriage return before B9, B10, and B11 on lines 47, 51, and 56. On line 60 add period after "is present."	2017/1/9 9:42
3608	Albert Petrick	225	1			E	Y		3300	multi-TID not capitalized	Make global change in .11ax D1.0: change "multi-TID to Multi-TID"	2017/1/9 9:42
3609	Albert Petrick	225	1 28.3.14.3	342	46	T	Y	342.46 28.3.14.3		In clause 28.3.14.3 the RSSI is measured during the "PHY legacy preamble". The RSSI_LEGACY is defined, but the PHY legacy preamble is not. It's not define or referenced in the IEEE 802.11-2016 baseline. This should be defined and referenced back to the IEEE 802.11-2016 baseline standard.	Add definition for PHY legacy preamble in clause 3.4 Definitions, acronyms, and abbreviations with reference back to IEEE 802.11-2016 figures, text or subclause	2017/1/9 9:42
3610	Albert Petrick	225	1 9.4.2.218.3	93	25	E	Y	93.25 9.4.2.218.3	3479	Table 9-262aa, missing period at the end of sentence	Fix. In the "Definition column", Add period "." after the "duration" on lines 25 and 29.	2017/1/9 9:42
3611	Albert Petrick	225	1 25.5.2.3	167	69	T	Y	167.69 25.5.2.3	3301	"TBD" is a placeholder and not allowed in drafts in WG letter ballots as per IEEE 802.11 WG policies.	Remove TBD	2017/1/9 9:42
3612	Albert Petrick	225	1 28.3.18.2	354	46	E	Y	354.46 28.3.18.2		Extra digit in Table 28-44	Change "+3441" to "+344"	2017/1/9 9:42
3613	Albert Petrick	225	1 9.4.2.218.3	83	34	E	Y	83.34 9.4.2.218.3	3481	Table 9-262aa, missing period and colon in sentence.	Fix. In the "Definition column, Add period "." after the "stream" on lines 35 and 39. In Encoding column Add ":" after B18 on line 34 and B19 on line 37.	2017/1/9 9:42
3614	Albert Petrick	225	1 27.3.3.4	154	39	T	Y	154.39 27.3.3.4	3302	The "L3 Frag BA Request frame", "L3 Frag BA Response" and "BA Response frame" are not defined and ambiguous. There are no figures, tables, text or timing flow between Requests and Responses.	Define "L3 Frag BA Request frame" and "L3 Frag BA Response", BA Response frames, add figures, tables and describe a procedure for L3 dynamic fragmentation.	2017/1/9 9:42
3615	Albert Petrick	225	1 28.3.14.3	342	12	E	Y	342.12 28.3.14.3		Spelling error with MCS 7	Change "MCS 7" to "MCS7"	2017/1/9 9:42
3616	Albert Petrick	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	3303	Text in sentence references table "Table YY-1". Table doesn't exist in .11ax D1.0 or in IEEE 802.11-2016	Fix reference and add table or delete sentence referencing table	2017/1/9 9:42
3617	Albert Petrick	225	1 28.3.14.3	342	10	E	Y	342.10 28.3.14.3		Spelling error with MCS 0	Change "MCS 0" to "MCS0"	2017/1/9 9:42
3618	Albert Petrick	225	1 27.6.2	177	43	T	Y	177.43 27.6.2	3304	Figure 27-3 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing as beamformee from beamformer.	2017/1/9 9:42
3619	Albert Petrick	225	1 28.3.14.3	342	36	E	Y	342.36 28.3.14.3		In Table 28-40 in the Case A column, there is a hyphen character.	Remove hyphen "-" character and leave cell blank	2017/1/9 9:42

3620	Albert Petrick	225	1 9.4.2.218.3	83	40	E	Y	83.40 9.4.2.218.3	3484	Table 9-262aa, missing period and colon in sentence.	In the Definition column, Add colon ":" after B20 and B21. Add period after "procedure." on lines 41 and 43. In Encoding column Add colon after B20 on line 40 and B21 on line 43. Add extra line space between lines 41 and 42.	2017/1/9 9:42
3621	Albert Petrick	225	1 27.6.2	178	6	T	Y	178.06 27.6.2	3305	Figure 27-4 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing, identify the beamformee "1 thru n" and spell out the word "TRIG" in UL TRIG PPDU	2017/1/9 9:42
3622	Albert Petrick	225	1 28.3.16	344	45	E	Y	344.45 28.3.16		In Figure 28-36 (HE NDP PPDU format) the PE field is the Packet Extension field. The text should reference this field.	Change "Packet Extension" to "Packet Extension (PE)"	2017/1/9 9:42
3623	Albert Petrick	225	1 9.4.2.218.3	83	58	E	Y	83.58 9.4.2.218.3	3486	Table 9-262aa, missing period at the end of sentence.	Add period after "MU-MIMO" on line 58.	2017/1/9 9:42
3624	Albert Petrick	225	1 27.6.2	178	7	T	Y	178.07 27.6.2	3306	"CSI" in Figure 27-4 is not defined or referenced in text	Expand on the term "CSI" and describe this term in the text with relationship with HE beamformee.	2017/1/9 9:42
3625	Albert Petrick	225	1 9.4.2.218.3	82	11	T	Y	82.11 9.4.2.218.3	3488	Add clarity and call out bit position in Table 9-262aa for subfield "Dual Band Support" corresponding to those bit positions in Figure 9-589cl	Add bit B0 in Definition column Change to: "B0 indicates support of both...."	2017/1/9 9:42
3626	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3307	Sentence misaligned spacing	Left just "A STA fro which do11HEOptionImplemented..... "	2017/1/9 9:42
3627	Albert Petrick	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3	3490	Add clarity and call out bit position in Table 9-262aa for subfield "UL HE MU PPDU Payload Support" corresponding to those bit positions in Figure 9-589cl	Add bit B30 in Definition column Change to: "B30 indicates that the STA supports the reception of....."	2017/1/9 9:42
3628	Albert Petrick	225	1 28.3.16	344	36	E	Y	344.36 28.3.16		Remove space between sentences	Delete lines 35 and 36. The text should read as follows: NDP is the only HE sounding format. The format of an HE NDP PPDU is shown in Figure 28-36 (HE NDP PPDU format).	2017/1/9 9:42
3629	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3308	Period missing at end of sentence	Add period at the end of sentence.	2017/1/9 9:42
3630	Albert Petrick	225	1 9.4.2.218.3	84	31	T	Y	84.31 9.4.2.218.3	3492	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B31 in Definition column Change to: "B31 indicates support for operation as an SU beamformer."	2017/1/9 9:42
3631	Albert Petrick	225	1 28.3.17.4	347	13	E	Y	347.13 28.3.17.4		Extra line space between paragraphs	Remove line 13	2017/1/9 9:42
3632	Albert Petrick	225	1 9.4.2.218.3	84	36	T	Y	84.36 9.4.2.218.3	3494	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformee" corresponding to those bit positions in Figure 9-589cl	Add bit B32 in Definition column Change to: "B32 indicates support for operation as an SU beamformee."	2017/1/9 9:42
3633	Albert Petrick	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	3496	Add clarity and call out bit position in Table 9-262aa for subfield "MU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B33 in Definition column Change to: "B33 indicates support for operation as an MU beamformer."	2017/1/9 9:42
3634	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3309	Sentence misaligned spacing	left justify "issue a PHY-CCA.indication(BUSY, {secondary40})."	2017/1/9 9:42
3635	Albert Petrick	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3	3267	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamforemee STS For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B34-B36 in Definition column Change to: "B34-B36 indicates the maximum number of space-time streams the STA can receive in an HE NDP."	2017/1/9 9:42
3636	Albert Petrick	225	1 28.3.17.6.4	349	15	E	Y	349.15 28.3.17.6.4		Paragraph misaligned	Left justify paragraph	2017/1/9 9:42
3637	Albert Petrick	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3	3272	Add clarity and call out bit positions in Table 9-262aa for subfield "NTST Total For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B37-B39 in Definition column Change to: "B37-B39 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
3638	Albert Petrick	225	1 28.5	373	28	E	Y	373.28 28.5	3242	Units "Mbps" in Table 28-47 through Tables 28-102 not consistent with units "Mb/s" in text, tables and figures in IEEE 802.11-2016.	Change "Mbps" to "Mb/s" in Tables 28-47 through Table 28-102. There are 54 tables that need updating!	2017/1/9 9:42
3639	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3310	Sentence misaligned spacing	left justify "PHYCCA. Indication(BUSY, {primary}).....and"	2017/1/9 9:42
3640	Albert Petrick	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3	3276	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamformee STS for > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B40-B42 in Definition column Change to: "B40-B42 indicates the maximum number for.....HE NDP."	2017/1/9 9:42

3641	Albert Petrick	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	3281	Add clarity and call out bit positions in Table 9-262aa for subfield "NSTS Total For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B44-B45 in Definition column Change to: "B43-B45 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
3642	Albert Petrick	225	1 28.1.1	209	16	E	Y	209.16 28.1.1	3250	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
3643	Albert Petrick	225	1 28.3.17.6.4	349	27	E	Y	349.27 28.3.17.6.4	3311	Sentence misaligned spacing	left justify "present and on of the.....or"	2017/1/9 9:42
3644	Albert Petrick	225	1 9.4.2.218.3	85	20	T	Y	85.20 9.4.2.218.3	3285	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B46-B48 in Definition column Change to: "B46-B48 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
3645	Albert Petrick	225	1		2	T	Y		3287	.11ax D1.0 makes reference to IEEE P802.11REVmc-D8.0, which is essentially IEEE P802.11-2016 (the new rollup baseline standard) and soon to be published in 2017. Once it is published, P802.11REVmc-D8.0 will be removed from the IEEE 802.11 working group members area on the website and will not be available in public domain on the IEEE 802.11 work group document server for public use. All references in .11ax D1.0 to clauses in the baseline standard should be made to IEEE P802.11-2016 and not to IEEE P802.11REVmc-D8.0.	Remove IEEE P802.11REVmc(TM)D8.0 and replace with IEEE P802.11-2016	2017/1/9 9:42
3646	Albert Petrick	225	1 9.4.2.218.3	85	22	E	Y	85.22 9.4.2.218.3	3509	Missing period at end of sentence in Definition column of Table 9-262aa.	Add period at the end of sentence "HE NDP"	2017/1/9 9:42
3647	Albert Petrick	225	1			G	Y		3288	The title of the column headers in ALL of the tables need to be formatted: 1) center text in title. 2) lock 1st row of table to continue on next page.	Fix and format ALL tables headers (1st row) and enable 1st row to roll-over on next page when tables don't fit on current page.	2017/1/9 9:42
3648	Albert Petrick	225	1 9.4.2.218.3	85	26	T	Y	85.26 9.4.2.218.3	3511	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B48-B51 in Definition column Change to: "B49-B51 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
3649	Albert Petrick	225	1 28.3.17.6.4	349	46	E	Y	349.46 28.3.17.6.4	3312	Sentence misaligned spacing	Change "BUSY, (secondary40))" to "BUSY,(secondary40))"	2017/1/9 9:42
3650	Albert Petrick	225	1 28.1.1	209	19	E	Y	209.19 28.1.1	3258	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
3651	Albert Petrick	225	1			G	Y		3289	Throughout .11ax D1.0 there are references where some bits have hyphens and others do not e.g., 1 bit, and 1-bit . The text, Tables and Figures should be consistent using "hyphens" as used in IEEE 802.11-2016.	Fix. Include hyphens in text, Tables and Figures similar to the format utilized in baseline IEEE 802.11-2016	2017/1/9 9:42
3652	Albert Petrick	225	1			G	Y		3290	Throughout .11ax D1.0 cross-reference links in text to tables, figures, equations, clauses and sub-clauses either broken, and non-existent.	Fix cross-reference links in text, tables, figures, equations and external links	2017/1/9 9:42
3653	Albert Petrick	225	1			G	Y		3291	Throughout .11ax D1.0 the alignment of the terms in equations and spacing between paragraph text and equations need to be centered on the pages.	Fix spacing of terms in equations and space of text between equations.	2017/1/9 9:42
3654	Albert Petrick	225	1 9.4.2.218.3	85	28	E	Y	85.28 9.4.2.218.3	3514	Missing period at end of sentence in Definition column of Table 9-262aa.	Fix. Add period at the end of sentence "HE NDP."	2017/1/9 9:42
3655	Albert Petrick	225	1 28.3.17.6.4	349	21	E	Y	349.21 28.3.17.6.4	3313	Sentence misaligned spacing	Change "max(-72 dBm, OBSS_PD)" to " "max (-72 dBm, OBSS_PD)"	2017/1/9 9:42
3656	Albert Petrick	225	1 28.1.1	209	22	E	Y	209.22 28.1.1	3265	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
3657	Albert Petrick	225	1 3.4	7	13	E	Y	7.13 3.4	3292	hyphen error – hyphen between the words frequency and division "Orthogonal frequency-division multiple access" The use of hyphens should be consistent with what is used in IEEE 802.11-2016.	Remove hyphen after "frequency"	2017/1/9 9:42
3658	Albert Petrick	225	1 9.4.2.218.3	85	29	E	Y	85.29 9.4.2.218.3	3516	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42

3659	Albert Petrick	225	1 28.3.18.2	353	62	T	Y	353.62 28.3.18.2	3314	Spectral flatness procedure needs more clarity	Delete the sentence: "Demodulate the HE PPDUs .....procedure;" and place with the following sentence. " The HE PPDUs shall be demodulated using the following (or equivalent) procedure."	2017/1/9 9:42
3660	Albert Petrick	225	1 4.3.14a	9	33	T	Y	9.33 4.3.14a	3293	"RU" not defined	Add definition for "RU" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3661	Albert Petrick	225	1 28.4.3	372	48	T	Y	372.48 28.4.3	3315	Table 28-46 - HE PHY characteristics lists the aPSDUMaxLength set to 6,500,631 octets. It's not clear in the table or text what assumptions were made and how the length is calculated.	Add a NOTE at the bottom of Table 28-46 stating the assumptions and the calculation (Eq.) for determining the PSDU maximum. E.g., 1024-QAM 5/6 rate coding rate, LDPC, 160 MHz channel bandwidth, 8 spatial streams, LDPC.	2017/1/9 9:42
3662	Albert Petrick	225	1 6.3.4.2.2	11		E	Y	11.00 6.3.4.2.2	3294	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3663	Albert Petrick	225	1 28.1.1	210	6	E	Y	210.06 28.1.1		Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
3664	Albert Petrick	225	1 28.3.10.7.2	277	58	E	N	277.58 28.3.10.7.2	3316	LDPC misspelled in Table 28-17	Change "LPDC" to "LDPC" in Bandwidth column of Table 28-17	2017/1/9 9:42
3665	Albert Petrick	225	1 9.4.2.218.3	85	24	E	Y	85.24 9.4.2.218.3	3520	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
3666	Albert Petrick	225	1 28.3.6.4	250	43	T	Y	250.43 28.3.6.4	3317	Four extra tones insertion; mapping not correct for Construction of L-SIG.	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
3667	Albert Petrick	225	1 9.4.2.218.3	85	31	T	Y	85.31 9.4.2.218.3	3522	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For SU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B52 in Definition column Change to: "B52 indicates if the HE beamformee....."	2017/1/9 9:42
3668	Albert Petrick	225	1 6.3.7.4.2	12	25	E	Y	12.25 6.3.7.4.2	3295	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
3669	Albert Petrick	225	1 28.3.6.5	251	11	T	Y	251.11 28.3.6.5	3318	Four extra tones insertion; mapping not correct for Construction of RL-SIG	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
3670	Albert Petrick	225	1 9.4.2.218.3	85	35	T	Y	85.35 9.4.2.218.3	3524	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For MU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B53 in Definition column Change to: "B53 indicates if the HE beamformee....."	2017/1/9 9:42
3671	Albert Petrick	225	1 28.1.1	210	9	E	Y	210.09 28.1.1		Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
3672	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3319	"Doppler subfield indicates a high doppler mode of transmission." Definition, clarification and technical details are not in .11axD1.0 with respect to the range of doppler spread and operating conditions triggering "high doppler mode". In Table 9-262aa pg. 83 "doppler procedure" defines 2-bits and references for "doppler" and makes reference to STAs using a "Doppler Procedure" for HE PPDUs transmissions. Critical technical details on the doppler procedure are lacking in .11axD1.0.	Either remove all references to Doppler in .11axD1.0 (text and in Table 9-262aa) including STA doppler support or add detailed technical content on Doppler Procedure for HE PPDU transmissions in support of clause of 9.3.1.23 and Table 9-262aa.	2017/1/9 9:42
3673	Albert Petrick	225	1 27.4.2	158	30	E	Y	158.30 27.4.2	3296	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
3674	Albert Petrick	225	1 9.4.2.218.3	85	37	E	Y	85.37 9.4.2.218.3	3526	In Table 9-262aa missing period at the end of sentence.	Add period after "MU-type feedback."	2017/1/9 9:42
3675	Albert Petrick	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3	3320	Table 9-262aa defines HE-PHY Capabilities Information field. Doppler subfield makes reference to Doppler Procedure. There is no text on "Doppler procedure" procedure needs to be defined.	Add technical detail content or remove "Doppler subfield from Table 262aa	2017/1/9 9:42
3676	Albert Petrick	225	1 9.4.2.218.3	85	39	T	Y	85.39 9.4.2.218.3	3528	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (Nr, nC) = {4, 2} For SU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B54 in Definition column Change to: "B54 indicates if the HE beamformee....."	2017/1/9 9:42
3677	Albert Petrick	225	1 28.1.1	210	13	E	Y	210.13 28.1.1		Period missing at end of sentence	Add period at the of sentence after "MHz"	2017/1/9 9:42
3678	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3321	Doppler is not defined in clause 3.4 of IEEE 802.11-2016 (802.11 REVmc D8.0)	Add "Doppler" definition in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42

3679	Albert Petrick	225	1 9.4.2.218.3	85	44	T	Y	85.44 9.4.2.218.3	3530	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (i^ψ, i^(Φ)) = (7,5) For MU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B55 in Definition column Change to: "B55 indicates if the HE beamformee....."		2017/1/9 9:42
3680	Albert Petrick	225	1 27.4.2	158	51	E	Y	158.51 27.4.2	3297	multi-TID not capitalized	change "multi-TID" to "Multi-TID"		2017/1/9 9:42
3681	Albert Petrick	225	1 27.3.3.1	153	19	E	Y	153.19 27.3.3.1	3322	Extra period	Remove extra period from the end of the sentence.		2017/1/9 9:42
3682	Albert Petrick	225	1 9.4.2.218.3	85	50	E	Y	85.50 9.4.2.218.3	3532	In Table 9-262aa, Missing periods and line spacing between sentences.	In the "Definition" column, Add period at the end of sentences e.i., after "feedback." on lines 50, 52, 54, 57, 59 and 61. Add line space carriage return after "feedback on lines 50, 52, 54, 57 and 59. In "Encoding" column, Add line spacing carriage return after "otherwise." on line 55.		2017/1/9 9:42
3683	Albert Petrick	225	1 27.3.4.1	155	44	E	Y	155.44 27.3.4.1	3323	Paragraph misaligned	left justify paragraph		2017/1/9 9:42
3684	Albert Petrick	225	1 9.4.2.218.3	86	6	T	Y	86.06 9.4.2.218.3	3534	Add clarity and call out bit position in Table 9-262aa for subfield "HE ER SU Payload" corresponding to those bit positions in Figure 9-589cl.	Add bit B59 in Definition column Change to: "B59: indicates the support of transmission....."		2017/1/9 9:42
3685	Albert Petrick	225	1 28.1.1	210	15	E	Y	210.15 28.1.1		Period missing at end of sentence	Add period at the of sentence after "subcarriers"		2017/1/9 9:42
3686	Albert Petrick	225	1 27.4.4	160	160	E	Y	161.60 27.4.4	3298	multi-TID not capitalized	change "multi-TID" to "Multi-TID"		2017/1/9 9:42
3687	Albert Petrick	225	1 27.5.2.5	171	43	E	Y	171.43 27.5.2.5	3324	Extra parenthesis	Remove extra parenthesis at the end of sentence.		2017/1/9 9:42
3688	Albert Petrick	225	1 9.4.2.218.3	86	11	T	Y	86.11 9.4.2.218.3	3536	Add clarity and call out bit position in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" corresponding to those bit positions in Figure 9-589cl.	Add bit B60 in Definition column Change to: "B60: indicates the non-AP STA supports....."		2017/1/9 9:42
3689	Albert Petrick	225	1 27.5.2.5	171	40	T	Y	171.40 27.5.2.5	3325	"ACs (#2190, 2191)" are remaining CID placeholders and not part of draft .11ax D1.0	Remove references to CIDs #2190, and 2191		2017/1/9 9:42
3690	Albert Petrick	225	1 9.4.2.218.3	86	14	T	Y	86.14 9.4.2.218.3	3538	Add clarity and call out a "Note" reference in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" in the Encoding column.	Add change to read: "Note: This field is reserved for an AP."		2017/1/9 9:42
3691	Albert Petrick	225	1 28.1.1	210	17	E	Y	210.17 28.1.1		Period missing at end of sentence	Add period at the of sentence after "4"		2017/1/9 9:42
3692	Albert Petrick	225	1 27.5.2.5	171	41	E	Y	171.41 27.5.2.5	3326	Table number missing for Table 9-XX (Delta TID subfield encoding).	Add Table number 9-18c		2017/1/9 9:42
3693	Albert Petrick	225	1 27.4.4.1	160	45	E	Y	160.45 27.4.4.1	3299	multi-TID not capitalized	change "multi-TID" to "Multi-TID"		2017/1/9 9:42
3694	Albert Petrick	225	1 9.4.2.218.3	86	16	T	Y	86.16 9.4.2.218.3	3540	Add clarity and call out bit position in Table 9-262aa for subfield "PPE Threshold Present" corresponding to those bit position in Figure 9-589cl.	Add bit B61 in Definition column Change to: "B61: indicates whether or no the PPE....."		2017/1/9 9:42
3695	Albert Petrick	225	1 9.3.1.22	42	7	E	Y	42.07 9.3.1.22	3327	Figure 9-52d Common Info field B20-B21 has a spelling error for "GIAnd LTF Type"	Change "GIAnd" to "GI And"		2017/1/9 9:42
3696	Albert Petrick	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3	3542	Add clarity and call out bit position in Table 9-262aa for subfield "SRP-based SR Support" corresponding to those bit position in Figure 9-589cl.	Add bit B62 in Definition column Change to: "B62: indicates that the STA supports SRP-based....."		2017/1/9 9:42
3697	Albert Petrick	225	1 9.4.2.218.3	86	19	E	Y	86.19 9.4.2.218.3	3544	In Table 9-262aa, missing period after sentence.	Add period " " at the end of sentence after "operation."		2017/1/9 9:42
3698	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1		Period missing at end of sentence	Add period at the of sentence after "11"		2017/1/9 9:42
3699	Albert Petrick	225	1			E	Y		3300	multi-TID not capitalized	Make global change in .11ax D1.0: change "multi-TID to Multi-TID"		2017/1/9 9:42
3700	Albert Petrick	225	1 9.4.2.218.3	86	21	T	Y	86.21 9.4.2.218.3	3546	Add clarity and call out bit position in Table 9-262aa for subfield "Power Boost Factor +^r Support" corresponding to those bit position in Figure 9-589cl.	Add bit B63 in Definition column Change to: "B63: indicates that the STA supports....."		2017/1/9 9:42
3701	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1		Referencing "MCS 10" not consistent in text in .11ax D1.0. Should use "MCS10"	Change "MCS 10" to MCS10" Change "11" to "MCS11"		2017/1/9 9:42
3702	Albert Petrick	225	1 9.4.2.218.1	76	2	E	Y	76.02 9.4.2.218.1	3328	Extra period	Remove extra period from the end of sentence.		2017/1/9 9:42
3703	Albert Petrick	225	1 25.5.2.3	167	69	T	Y	167.69 25.5.2.3	3301	"TBD" is a placeholder and not allowed in drafts in WG letter ballots as per IEEE 802.11 WG policies.	Remove TBD		2017/1/9 9:42
3704	Albert Petrick	225	1 27.3.3.4	154	39	T	Y	154.39 27.3.3.4	3302	The "L3 Frag BA Request frame", "L3 Frag BA Response" and "BA Response frame" are not defined and ambiguous. There are no figures, tables, text or timing flow between Requests and Responses.	Define "L3 Frag BA Request frame" and "L3 Frag BA Response", BA Response frames, add figures, tables and describe a procedure for L3 dynamic fragmentation.		2017/1/9 9:42

3705	Albert Petrick	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	3303	Text in sentence references table "Table YY-1". Table doesn't exist in .11ax D1.0 or in IEEE 802.11-2016	Fix reference and add table or delete sentence referencing table	2017/1/9 9:42
3706	Albert Petrick	225	1 9.4.2.218.3	86	22	E	Y	86.22 9.4.2.218.3	3548	In Table 9-262aa, missing period after sentence.	Add period at the end of sentence after "range [0.5, 2]."	2017/1/9 9:42
3707	Albert Petrick	225	1 28.1.1	210	22	E	Y	210.22 28.1.1		Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
3708	Albert Petrick	225	1 9.4.2.218.5	89	38	E	Y	89.38 9.4.2.218.5	3329	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3709	Albert Petrick	225	1 27.6.2	177	43	T	Y	177.43 27.6.2	3304	Figure 27-3 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing as beamformee from beamformer.	2017/1/9 9:42
3710	Albert Petrick	225	1 9.4.2.218.3	86	24	T	Y	86.24 9.4.2.218.3	3550	Add clarity and call out bit position in Table 9-262aa for subfield "4x HE-LTF And 0.8 us GI Support For HE PPDUs" corresponding to those bit position in Figure 9-589cl.	Add bit B64 in Definition column Change to: "B64: indicates for the reception of 4x LTF....."	2017/1/9 9:42
3711	Albert Petrick	225	1 9.4.2.218.5	89	13	E	Y	89.13 9.4.2.218.5	3330	Bit positions B0 - Bn not labeled on Figure 9-589cp--PPE Thresholds Info field format	Update Figure 9-589cp with Bit positions B0-Bn for groups of 3 bits per PPET16 and PPET8 subfields.	2017/1/9 9:42
3712	Albert Petrick	225	1 27.6.2	178	6	T	Y	178.06 27.6.2	3305	Figure 27-4 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing, identify the beamformee "1 thru n" and spell out the word "TRIG" in UL TRIG PPDU	2017/1/9 9:42
3713	Albert Petrick	225	1 9.4.2.218.3	86	28	T	Y	86.28 9.4.2.218.3	3552	Missing "Reserve" Subfield, and text for Definition and Encoding in Table 9-262aa. The Reserve subfield should correspond to the 7 bit positions B65 -B71 in Figure 9-589Cl.	At the end of Table 9-262-aa. Add "Reserved" in Subfield column. Add text (see underlined text) "B65 - B71 (7-bits) are reserved." Encoding column leave blank.	2017/1/9 9:42
3714	Albert Petrick	225	1 28.1.1	210	26	E	Y	210.26 28.1.1		Period missing at end of sentence	Add period at the of sentence after "STA"	2017/1/9 9:42
3715	Albert Petrick	225	1 27.6.2	178	7	T	Y	178.07 27.6.2	3306	"CSI" in Figure 27-4 is not defined or referenced in text	Expand on the term "CSI" and describe this term in the text with relationship with HE beamformee.	2017/1/9 9:42
3716	Albert Petrick	225	1 9.4.2.218.3	86	31	T	Y	86.31 9.4.2.218.3	3554	Class A STAs are declared "high capability devices" and class B STAs as "low capability devices" This is the only reference in .11axD1.0 to these terms. Class A and class B STAs are defined in sub-clause 28.3.14 (Transmit requirements for an HE trigger-based PPDU). Transmit power accuracy and RSSI measurement accuracy are discussed in detail e.g., Table 28-40. To eliminate ambiguities, "low and high capability devices" should be defined and referenced back to clause 28.3.14.	Add definition for "low and high capability" devices in clause 28.3.14, and add text reference back to clause 28.3.14. Add underline text (without the underline) to read: "Class A STAs are high capability devices and class B STAs are low capability devices as described in 28.3.14 (Transmit requirements for an HE trigger-based PPDU).	2017/1/9 9:42
3717	Albert Petrick	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1	3331	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3718	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3307	Sentence misaligned spacing	Left just "A STA fro which do11HEOptionImplemented...."	2017/1/9 9:42
3719	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2	3556	The "Value" column in Table 18-1 (TXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 17-1 in subclause 17.2.2.1 of .11axD1.0, or Table 18-1, 18-3 in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.	2017/1/9 9:42
3720	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3308	Period missing at end of sentence	Add period at the end of sentence.	2017/1/9 9:42
3721	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2	3558	The "Value" column in Table 18-3 (RXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 18-3 in subclause 17.2.2.1 of .11axD1.0, or Tables 18-1, 18-3, in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.	2017/1/9 9:42

3722 Albert Petrick	225	1 28.1.1	210	30	E	Y	210.30 28.1.1		Period missing at end of sentence	Add period at the of sentence after "STA"	2017/1/9 9:42
3723 Albert Petrick	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	3332	Extra period	Remove extra period at the end of sentence after the word "context"	2017/1/9 9:42
3724 Albert Petrick	225	1 28.3.18.4.4	355	38	T	Y	355.38 28.3.18.4.4	3560	The EVM for MCS7 (-27 dB) is based on the maximum tx power of MCS7. Clarification is needed why it is being used for BPSK...64-QAM as shown in Table 28-45. The EVM value was selected for UL OFDMA PPDUs. This should be noted or expanded in the text in clause 28.3.18.4.4	Add the following underlined text (without the underline) in the "Note" on line 40 in Table 28-45 as follows: "which EVM is test is conducted. "EVM of -27 dB, is used when the Tx Power is less than the maximum power of MCS7, and assists the AP in managing RUs for UL OFDMA PPDU transmissions."	2017/1/9 9:42
3725 Albert Petrick	225	1 9.4.2.218.2	76	47	E	Y	76.47 9.4.2.218.2	3562	In Figure 9-589ck - (HE MAC PHY Capabilities Information field format) subfield "Group Addressed Multi-STA BlockAck In DL MU Support" is mark as having 4-bits. This is not correct. There is 1-bit assigned (B24).	Change Bits "4" to "1" for subfield "Group Addressed Multi-STA BlockAck In DL MU Support" in Figure 9-589ck.	2017/1/9 9:42
3726 Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3309	Sentence misaligned spacing	left justify "issue a PHY-CCA.inidication(BUSY, {secondary40}),."	2017/1/9 9:42
3727 Albert Petrick	225	1 28.1.1	210	31	E	Y	210.31 28.1.1		Period missing at end of sentence	Add period at the of sentence after "MSC11"	2017/1/9 9:42
3728 Albert Petrick	225	1 28.3.17.3	345	64	E	Y	345.64 28.3.17.3	3564	Missing Table number reference in clause 28.3.17.3	Change "Table xx-a" to "Table 28-41"	2017/1/9 9:42
3729 Albert Petrick	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	3333	Extra period	Remove extra period at the end of sentence after the word "allocation)"	2017/1/9 9:42
3730 Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3567	Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
3731 Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3310	Sentence misaligned spacing	left justify "PHYCCA. Indication(BUSY, {primary}).....and"	2017/1/9 9:42
3732 Albert Petrick	225	1 28.1.1	210	33	E	Y	210.33 28.1.1	3247	Period missing at end of sentence	Add period at the of sentence after "5"	2017/1/9 9:42
3733 Albert Petrick	225	1 27.5.2.2.1	164	53	E	Y	164.53 27.5.2.2.1	3335	Period missing at end of sentence	Add period at end of sentence after the word "S-MPDUs))"	2017/1/9 9:42
3734 Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3572	Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
3735 Albert Petrick	225	1 28.3.17.6.4	349	27	E	Y	349.27 28.3.17.6.4	3311	Sentence misaligned spacing	left justify "present and on of the .....or"	2017/1/9 9:42
3736 Albert Petrick	225	1 28.3.18.4.4	357	11	E	Y	357.11 28.3.18.4.4	3575	Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42
3737 Albert Petrick	225	1 28.1.1	210	35	E	Y	210.35 28.1.1	3254	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
3738 Albert Petrick	225	1 27.5.2.2.1	164	56	E	Y	164.56 27.5.2.2.1	3338	Period missing at end of sentence	Add period at end of sentence after the word "behavior))"	2017/1/9 9:42
3739 Albert Petrick	225	1 28.3.17.6.4	349	46	E	Y	349.46 28.3.17.6.4	3312	Sentence misaligned spacing	Change "BUSY, {secondary40})" to "BUSY,{secondary40))"	2017/1/9 9:42
3740 Albert Petrick	225	1 28.3.18.4.4	357	14	E	Y	357.14 28.3.18.4.4	3580	Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42
3741 Albert Petrick	225	1 28.1.1	210	38	E	Y	210.38 28.1.1	3264	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3742 Albert Petrick	225	1 27.5.2.2.1	164	59	E	Y	164.59 27.5.2.2.1	3342	Period missing at end of sentence	Add period at end of sentence after the word "TIDs))"	2017/1/9 9:42
3743 Albert Petrick	225	1 28.3.11.13	331	48	E	Y	331.48 28.3.11.13	3583	Misspelling in PPDU BW in Table 28-31 Pilot indices for 52-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-31	2017/1/9 9:42
3744 Albert Petrick	225	1 28.3.17.6.4	349	21	E	Y	349.21 28.3.17.6.4	3313	Sentence misaligned spacing	Change "max(-72 dBm, OBSS_PD)" to " "max (-72 dBm, OBSS_PD)"	2017/1/9 9:42
3745 Albert Petrick	225	1 28.3.11.13	332	30	E	Y	332.30 28.3.11.13	3585	Misspelling in PPDU BW in Table 28-33 Pilot indices for 106-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-33	2017/1/9 9:42
3746 Albert Petrick	225	1 28.3.18.2	353	62	T	Y	353.62 28.3.18.2	3314	Spectral flatness procedure needs more clarity	Delete the sentence: "Demodulate the HE PPDUs .....procedure:" and place with the following sentence. " The HE PPDUs shall be demodulated using the following (or equivalent) procedure:"	2017/1/9 9:42
3747 Albert Petrick	225	1 28.1.1	210	41	E	Y	210.41 28.1.1		Period missing at end of sentence	Add period at the of sentence after "MIMO)"	2017/1/9 9:42
3748 Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13	3589	Misspelling in PPDU BW in Table 28-34 Pilot indices for 242-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-34	2017/1/9 9:42
3749 Albert Petrick	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3	3345	Extra period	Add period at end of sentence after the word "PPDU"	2017/1/9 9:42

3750	Albert Petrick	225	1 28.4.3	372	48	T	Y	372.48 28.4.3	3315	Table 28-46 - HE PHY characteristics lists the aPSDUMaxLength set to 6,500,631 octets. It's not clear in the table or text what assumptions were made and how the length is calculated.	Add a NOTE at the bottom of Table 28-46 stating the assumptions and the calculation (Eq.) for determining the PSDU maximum. E.g., 1024-QAM 5/6 rate coding rate, LDPC, 160 MHz channel bandwidth, 8 spatial streams, LDPC.	2017/1/9 9:42
3751	Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13	3591	Misspelling in PPDU BW in Table 28-36 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-36	2017/1/9 9:42
3752	Albert Petrick	225	1 28.3.10.7.2	277	58	E	N	277.58 28.3.10.7.2	3316	LDPC misspelled in Table 28-17	Change "LPDC" to "LDPC" in Bandwidth column of Table 28-17	2017/1/9 9:42
3753	Albert Petrick	225	1 28.3.11.13	334	43	E	Y	334.43 28.3.11.13	3592	Misspelling in PPDU BW in Table 28-37 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-37	2017/1/9 9:42
3754	Albert Petrick	225	1 28.1.1	210	44	E	Y	210.44 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3755	Albert Petrick	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2	3348	Extra period	Add period at end of sentence after the word "width)"	2017/1/9 9:42
3756	Albert Petrick	225	1 28.3.6.4	250	43	T	Y	250.43 28.3.6.4	3317	Four extra tones insertion; mapping not correct for Construction of L-SIG.	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
3757	Albert Petrick	225	1 28.3.12	339	3	E	Y	339.03 28.3.12	3594	Grammar error in text referencing Table 28-38 in clause 28.3.12	Add underlined text (without the underline) to read: "The 3-bit Packet Extension field in HE-SIG-A is defined as shown in Table 28-38.....HE-SIG-A)."	2017/1/9 9:42
3758	Albert Petrick	225	1 28.3.6.5	251	11	T	Y	251.11 28.3.6.5	3318	Four extra tones insertion; mapping not correct for Construction of RL-SIG	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
3759	Albert Petrick	225	1 9.4.2.218.2	77	55	E	Y	77.55 9.4.2.218.2	3349	Table 9-262z misaligned Equation in "Encoding" column. "OIF" misspelled	Fix alignment of Eq Nmax = 2Maximum Number OFF-MPDUs. Change "OIF" to "Off". Increase line spacing between sentences for aligning equation.	2017/1/9 9:42
3760	Albert Petrick	225	1 28.3.11.1	314	36	E	Y	314.36 28.3.11.1	3596	Spelling error "non STBC" in several clauses in .11axD1.0. Not consistent with IEEE 802.11-2016.	Global change text "non STBC" to "non-STBC" (add hyphen after non) throughout .11axD1.0, in text, Figures, Tables and subclause headers.	2017/1/9 9:42
3761	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3319	"Doppler subfield indicates a high doppler mode of transmission." Definition, clarification and technical details are not in .11axD1.0 with respect to the range of doppler spread and operating conditions triggering "high doppler mode". In Table 9-262aa pg. 83 "doppler procedure" defines 2-bits and references for "doppler" and makes reference to STAs using a "Doppler Procedure" for HE PPDUs transmissions. Critical technical details on the doppler procedure are lacking in .11axD1.0.	Either remove all references to Doppler in .11axD1.0 (text and in Table 9-262aa) including STA doppler support or add detailed technical content on Doppler Procedure for HE PPDU transmissions in support of clause of 9.3.1.23 and Table 9-262aa.	2017/1/9 9:42
3762	Albert Petrick	225	1 10.13.2	128	42	T	Y	128.42 10.13.2	3241	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3763	Albert Petrick	225	1 28.1.1	210	46	E	Y	210.46 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3764	Albert Petrick	225	1 28.3.10.7.2	281		E	Y	281.00 28.3.10.7.2	3598	Missing period in Table 28-18	Add period. Change "is punctured" to "is punctured."	2017/1/9 9:42
3765	Albert Petrick	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3	3320	Table 9-262aa defines HE-PHY Capabilities Information field. Doppler subfield makes reference to Doppler Procedure. There is no text on "Doppler procedure" procedure needs to be defined.	Add technical detail content or remove "Doppler subfield from Table 262aa	2017/1/9 9:42
3766	Albert Petrick	225	1 28.3.10.7.2	276	44	T	Y	276.44 28.3.10.7.2	3600	Table 28-17 referencing B11-B14 Spatial Reuse suggests the need for more development. This is a place holder e.g., TBD.	Delete note in Table 28-17: NOTE: this part needs further development.	2017/1/9 9:42
3767	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3321	Doppler is not defined in clause 3.4 of IEEE 802.11-2016 (802.11 REVmc D8.0)	Add "Doppler" definition in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3768	Albert Petrick	225	1 26.6.2	178	63	T	Y	178.63 26.6.2	3249	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
3769	Albert Petrick	225	1 28.1.1	210	48	E	Y	210.48 28.1.1		Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
3770	Albert Petrick	225	1 27.3.3.1	153	19	E	Y	153.19 27.3.3.1	3322	Extra period	Remove extra period from the end of the sentence.	2017/1/9 9:42
3771	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3604	Period missing at end of sentence	Add period at the end of the sentence after "preamble".	2017/1/9 9:42
3772	Albert Petrick	225	1 27.3.4.1	155	44	E	Y	155.44 27.3.4.1	3323	Paragraph misaligned	left justify paragraph	2017/1/9 9:42

3773	Albert Petrick	225	1 28.3.14.3	342	45	T	Y	342.45 28.3.14.3	3606	In clause 28.3.14.3 transmit power requirements and RSSI measurement accuracy requirements are defined for signal level ranges in dBm operating in the 2.4 GHz and 5GHz bands. The requirements are defined for nominal (room) temperature conditions. Specifying transmit power measurements and RSSI accuracy measurements over temperature is implementation dependent and could be regulatory dependent. Specifying a specific operation temperature drives an implementation and is out-of-scope of the standard.	Delete sentence: "The requirements are for nominal (room) temperature conditions."		2017/1/9 9:42
3774	Albert Petrick	225	1 27.5.2.5	171	43	E	Y	171.43 27.5.2.5	3324	Extra parenthesis	Remove extra parenthesis at the end of sentence.		2017/1/9 9:42
3775	Albert Petrick	225	1 27.15.4.1	203	18	T	Y	203.18 27.15.4.1	3256	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"		2017/1/9 9:42
3776	Albert Petrick	225	1 28.1.1	210	50	E	Y	210.50 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"		2017/1/9 9:42
3777	Albert Petrick	225	1 28.3.14.3	342	46	T	Y	342.46 28.3.14.3	3609	In clause 28.3.14.3 the RSSI is measured during the "PHY legacy preamble". The RSSI_LEGACY is defined, but the PHY legacy preamble is not. It's not define or referenced in the IEEE 802.11-2016 baseline. This should be defined and referenced back to the IEEE 802.11-2016 baseline standard.	Add definition for PHY legacy preamble in clause 3.4 Definitions, acronyms, and abbreviations with reference back to IEEE 802.11-2016 figures, text or subclause		2017/1/9 9:42
3778	Albert Petrick	225	1 27.5.2.5	171	40	T	Y	171.40 27.5.2.5	3325	"ACs (#2190, 2191)" are remaining CID placeholders and not part of draft .11ax D1.0	Remove references to CIDs #2190, and 2191		2017/1/9 9:42
3779	Albert Petrick	225	1 9.4.2.1	67	16	T	Y	67.16 9.4.2.1	3260	HE Capabilities Element clause number incorrect in Table 9-77 Element IDs	Change clause number to "9.4.2.218"		2017/1/9 9:42
3780	Albert Petrick	225	1 28.3.18.2	354	46	E	Y	354.46 28.3.18.2	3612	Extra digit in Table 28-44	Change "+3441" to "+344"		2017/1/9 9:42
3781	Albert Petrick	225	1 27.5.2.5	171	41	E	Y	171.41 27.5.2.5	3326	Table number missing for Table 9-XX (Delta TID subfield encoding).	Add Table number 9-18c		2017/1/9 9:42
3782	Albert Petrick	225	1 9.4.2.1	67	20	T	Y	67.20 9.4.2.1	3263	The HE Operation Element clause number is incorrect in Table 9-77 Element IDs.	Change clause number to "9.4.2.219"		2017/1/9 9:42
3783	Albert Petrick	225	1 28.3.14.3	342	12	E	Y	342.12 28.3.14.3	3615	Spelling error with MCS 7	Change "MCS 7" to "MCS7"		2017/1/9 9:42
3784	Albert Petrick	225	1 9.3.1.22	42	7	E	Y	42.07 9.3.1.22	3327	Figure 9-52d Common Info field B20-B21 has a spelling error for "GIAnd LTF Type"	Change "GIAnd" to "GI And"		2017/1/9 9:42
3785	Albert Petrick	225	1 28.1.1	210	58	E	Y	210.58 28.1.1		Period missing at end of sentence	Add period at the of sentence after "PPDUs"		2017/1/9 9:42
3786	Albert Petrick	225	1 28.3.14.3	342	53	T	Y	342.53 28.3.14.3	3359	CCDF not defined	Change "CCDF" to "complementary cumulative distribution function (CCDF)". Add definition for CCDF in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3787	Albert Petrick	225	1 28.3.14.3	342	10	E	Y	342.10 28.3.14.3	3617	Spelling error with MCS 0	Change "MCS 0" to "MCS0"		2017/1/9 9:42
3788	Albert Petrick	225	1 9.3.1.20	40	1	E	Y	40.01 9.3.1.20	3361	Clause title should not be underlined.	Remove underline; Change to "VHT/HE NDP"		2017/1/9 9:42
3789	Albert Petrick	225	1 28.3.14.3	342	36	E	Y	342.36 28.3.14.3	3619	In Table 28-40 in the Case A column, there is a hyphen character.	Remove hyphen "-" character and leave cell blank		2017/1/9 9:42
3790	Albert Petrick	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	3363	Parenthesis not needed in Figure 9-52c-Trigger frame	Remove parenthesis - Change "(RA)" to "RA" in Figure 9-52c-Trigger frame		2017/1/9 9:42
3791	Albert Petrick	225	1 9.4.2.218.1	76	2	E	Y	76.02 9.4.2.218.1	3328	Extra period	Remove extra period from the end of sentence.		2017/1/9 9:42
3792	Albert Petrick	225	1 28.1.1	210	64	E	Y	210.64 28.1.1		Period missing at end of sentence	Add period at the of sentence after "20 MHz"		2017/1/9 9:42
3793	Albert Petrick	225	1 28.3.16	344	45	E	Y	344.45 28.3.16	3622	In Figure 28-36 (HE NDP PPDU format) the PE field is the Packet Extension field. The text should reference this field.	Change "Packet Extension" to "Packet Extension (PE)"		2017/1/9 9:42
3794	Albert Petrick	225	1 9.3.1.23	41	59	E	Y	41.59 9.3.1.23	3365	Add space between sentences	Add space at end of sentence after the word "STA."		2017/1/9 9:42
3795	Albert Petrick	225	1 28.1.1	210	64	T	Y	210.64 28.1.1		Bandwidth should be specific to 20 MHz channels	Add the word "channel" before "bandwidth"		2017/1/9 9:42
3796	Albert Petrick	225	1 9.4.2.218.5	89	38	E	Y	89.38 9.4.2.218.5	3329	Extra period	Remove extra period from the end of sentence.		2017/1/9 9:42
3797	Albert Petrick	225	1 28.3.16	344	36	E	Y	344.36 28.3.16	3628	Remove space between sentences	Delete lines 35 and 36. The text should read as follows: NDP is the only HE sounding format. The format of an HE NDP PPDU is shown in Figure 28-36 (HE NDP PPDU format).		2017/1/9 9:42
3798	Albert Petrick	225	1 9.3.1.23	41	61	E	Y	41.61 9.3.1.23	3369	Add space between sentences	Add space at end of sentence after the word "address."		2017/1/9 9:42

3799	Albert Petrick	225	1 9.4.2.218.5	89	13	E	Y	89.13 9.4.2.218.5	3330	Bit positions B0 - Bn not labeled on Figure 9-589cp--PPE Thresholds Info field format	Update Figure 9-589cp with Bit positions B0-Bn for groups of 3 bits per PPET16 and PPET8 subfields.	2017/1/9 9:42
3800	Albert Petrick	225	1 28.1.1	211	5	E	Y	211.05 28.1.1		Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
3801	Albert Petrick	225	1 28.3.17.4	347	13	E	Y	347.13 28.3.17.4	3631	Extra line space between paragraphs	Remove line 13	2017/1/9 9:42
3802	Albert Petrick	225	1 9.3.3.6	53	36	E	Y	53.36 9.3.3.6	3371	spelling hyphen error in Table 9-30	In Table 9-30 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3803	Albert Petrick	225	1 9.3.3.8	54	30	E	Y	54.30 9.3.3.8	3373	spelling hyphen error in Table 9-32	In Table 9-32 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3804	Albert Petrick	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1	3331	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
3805	Albert Petrick	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11	3374	spelling hyphen error in Table 9-34	In Table 9-34 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
3806	Albert Petrick	225	1 28.3.17.6.4	349	15	E	Y	349.15 28.3.17.6.4	3636	Paragraph misaligned	Left justify paragraph	2017/1/9 9:42
3807	Albert Petrick	225	1 28.1.1	211	8	E	Y	211.08 28.1.1		Period missing at end of sentence	Add period at the of sentence after "PPDU"	2017/1/9 9:42
3808	Albert Petrick	225	1 9.2.4.1.10	20	5	T	Y	20.05 9.2.4.1.10	3375	"HCT/Order subfield" naming should be consistent when referenced in text. It's referenced as "HTC/Order field"	Change to "HCT/Order subfield" on lines 5 and 7	2017/1/9 9:42
3809	Albert Petrick	225	1 28.5	373	28	E	Y	373.28 28.5	3242	Units "Mbps" in Table 28-47 through Tables 28-102 not consistent with units "Mb/s" in text, tables and figures in IEEE 802.11-2016.	Change "Mbps" to "Mb/s" in Tables 28-47 through Table 28-102. There are 54 tables that need updating!	2017/1/9 9:42
3810	Albert Petrick	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1	3377	Reverse Direction Protocol (RDP) in Table 9-18a is missing reference "subclause reference" in the Content of the Control Information subfield.	Add the following clause reference: "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"	2017/1/9 9:42
3811	Albert Petrick	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	3332	Extra period	Remove extra period at the end of sentence after the word "context"	2017/1/9 9:42
3812	Albert Petrick	225	1 9.2.4.6.4.1	22	59	T	Y	22.59 9.2.4.6.4.1	3483	In clause A-Control 9.2.6.4 the text needs to clarify the bit length in the Control ID subfields, describe the sequence ordering and state how many Control IDs are defined and reserved. The text should flow with Table 9-15b, and Table 9-18a.	Add the following underlined text (without the underline), and remove the strikethrough text from lines 59 to 65 on page 22 and lines 11 - 12 to read as follows: The A-Control subfield contains a sequence of one or more Control subfields. The format of each Control subfield is defined shown in Figure 9-15b (Control subfield format). The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence. The Control ID subfield as shown in Figure 9-15b (Control subfield format) is 4-bits in length and indicates the type of information carried in the Control Information subfield. The bit length of the Control Information subfield is fixed for each value of the Control ID subfield that is not reserved. The values of the Control ID subfield and the associated length of the Control Information subfield are	2017/1/9 9:42
3813	Albert Petrick	225	1 28.1.1	211	9	E	Y	211.09 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3814	Albert Petrick	225	1 28.1.1	209	16	E	Y	209.16 28.1.1	3250	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
3815	Albert Petrick	225	1 9.2.4.6.4.2	24	20	E	Y	24.20 9.2.4.6.4.2	3380	Editorial formatting error with Target receiver power, TRSSI,	Remove comma "," before TRSSI and change ", TRSSI" to "(TRSSI)"	2017/1/9 9:42
3816	Albert Petrick	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	3333	Extra period	Remove extra period at the end of sentence after the word "allocation)"	2017/1/9 9:42
3817	Albert Petrick	225	1 9.2.4.6.4.2	23	59	T	Y	23.59 9.2.4.6.4.2	3381	Provide more clarity: UL PPDU subfield. The text should reference the "5-bits" for UL PPDU Length field in Figure 9-15c.	Insert text "is 5-bits (B0-B4) that" after the word subfield.	2017/1/9 9:42
3818	Albert Petrick	225	1 28.1.1	211	13	E	Y	211.13 28.1.1	3273	Period missing at end of sentence	Add period at the of sentence after "DL OFDMA)"	2017/1/9 9:42
3819	Albert Petrick	225	1 9.2.4.6.4.6	27	39	T	Y	27.39 9.2.4.6.4.6	3382	No reference to the bits in the Reserve subfield In 9.2.4.6.4.6.	Add the following sentence "Bits (B6-B7) are reserved." after the sentence on line 39.	2017/1/9 9:42
3820	Albert Petrick	225	1 28.1.1	209	19	E	Y	209.19 28.1.1	3258	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
3821	Albert Petrick	225	1 27.5.2.2.1	164	53	E	Y	164.53 27.5.2.2.1	3335	Period missing at end of sentence	Add period at end of sentence after the word "S-MPDUs))"	2017/1/9 9:42

3822	Albert Petrick	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	3384	The bits in Table 9-15i should be called in the text for clarification.	Add the following underlined text. The Control Information 8-bit subfield for the RDP Trigger frame is shown in Figure 9-15i (Control Information subfield format when the Control ID subfield is 6), 6-bits (B2-B7) are reserved. The AC Constraint subfield bit (B0) of the RDP field indicates whether the mapped AC of an RD Data frame is constrained to a single AC, and is defined in Table 9-10 (AC Constraint subfield values), except that if B0 equals a value of 1 indicates that the response from an HE STA contains Data frames from the same AC or higher AC as defined in 10.28.4 (Rules for RD responder). The RDG/More PPDU subfield bit (B1) is defined in Table 9-11 (RDG/More PPDU subfield values).		2017/1/9 9:42
3823	Albert Petrick	225	1 9.3.1.24	41	23	T	Y	41.23 9.3.1.24	3385	CQI acronym not defined in Table 9-25a	Add definition for CQI in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3824	Albert Petrick	225	1 28.1.1	211	15	E	Y	211.15 28.1.1	3283	Period missing at end of sentence	Add period at the of sentence after "UL OFDMA)"		2017/1/9 9:42
3825	Albert Petrick	225	1 9.4.2.218.3	82	12	E	Y	82.12 9.4.2.218.3	3387	Missing period after sentences in Table 9-262aa	Add "periods" after each sentence in the Definition and Encoding columns in Table 9-262aa		2017/1/9 9:42
3826	Albert Petrick	225	1 28.1.1	209	22	E	Y	209.22 28.1.1	3265	Period missing at end of sentence	Add period at the of sentence after "band"		2017/1/9 9:42
3827	Albert Petrick	225	1 27.5.2.2.1	164	56	E	Y	164.56 27.5.2.2.1	3338	Period missing at end of sentence	Add period at end of sentence after the word "behavior))"		2017/1/9 9:42
3828	Albert Petrick	225	1 9.4.2.218.5	89	36	T	Y	89.36 9.4.2.218.5	3388	PPET, PPET8 and PPET16 acronym not defined	Add definitions for PPET, PPET8 and PPET16 in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3829	Albert Petrick	225	1 28.1.1	211	18	E	Y	211.18 28.1.1		Period missing at end of sentence	Add period at the of sentence after "streams"		2017/1/9 9:42
3830	Albert Petrick	225	1 9.4.2.221	94	56	T	Y	94.56 9.4.2.221	3244	MUEDCATimer not defined	Add definition for MUEDCATimer in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3831	Albert Petrick	225	1 28.1.1	210	6	E	Y	210.06 28.1.1	3663	Period missing at end of sentence	Add period at the of sentence after "bandwidth"		2017/1/9 9:42
3832	Albert Petrick	225	1 27.5.2.2.1	164	59	E	Y	164.59 27.5.2.2.1	3342	Period missing at end of sentence	Add period at end of sentence after the word "TIDs))"		2017/1/9 9:42
3833	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3246	Sentence center justified should be left justified	Left justify sentence; "A STA for which dot11HEOptionImplemented is true shall set dot11VeryHighThroughputOptionImplemented or dot11HighThroughputOptionImplemented to true."		2017/1/9 9:42
3834	Albert Petrick	225	1 28.3.11.5	317	32	T	Y	317.32 28.3.11.5	3251	BCC acronym not defined	Add definition for "BCC = binary convolutional code" in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3835	Albert Petrick	225	1 28.1.1	211	21	E	Y	211.21 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"		2017/1/9 9:42
3836	Albert Petrick	225	1 28.3.11.5	317	33	T	Y	317.33 28.3.11.5	3252	LDPC acronym not defined	Add definition for "LDPC = low density parity check " in clause 3.4 Definitions, acronyms, and abbreviations		2017/1/9 9:42
3837	Albert Petrick	225	1 28.1.1	210	9	E	Y	210.09 28.1.1	3671	Period missing at end of sentence	Add period at the of sentence after "bandwidth"		2017/1/9 9:42
3838	Albert Petrick	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3	3345	Extra period	Add period at end of sentence after the word "PPDU"		2017/1/9 9:42
3839	Albert Petrick	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23	3255	Space missing between words in GIAnd LTF Type subfield of Figure 9-52	Add character space between the letters "IA" in "GIAnd LTF Type". Should read as "GI And LTF Type"		2017/1/9 9:42
3840	Albert Petrick	225	1 9.4.1.62	56	15	E	Y	56.15 9.4.1.62	3259	Table 9-121a bit positions misaligned	Fix bit alignment with each subfield and resize Figure 9-121a to fit center of page.		2017/1/9 9:42
3841	Albert Petrick	225	1 28.1.1	211	26	E	Y	211.26 28.1.1		Period missing at end of sentence	Add period at the of sentence after "OFDMA)"		2017/1/9 9:42
3842	Albert Petrick	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2	3348	Extra period	Add period at end of sentence after the word "width)"		2017/1/9 9:42
3843	Albert Petrick	225	1 28.1.1	210	13	E	Y	210.13 28.1.1	3677	Period missing at end of sentence	Add period at the of sentence after "MHz"		2017/1/9 9:42

3844	Albert Petrick	225	1 9.4.1.62	56	4	T	Y	56.04 9.4.1.62	3261	The text in Clause 9.4.1.62 HE MIMO Control field) needs clarification. The text should call out number of bits and range of bits for Figure 9-121a.	Add the following underlined text (not underlined text) . The HE MIMO Control field is included in every HE Compressed Beamforming frame (see 9.4.1.63 (HE Compressed Beamforming Report field)). The HE MIMO Control field is 40-bits (B0-B39) and is defined in Figure 9-121a (HE MIMO Control field). The subfields and bit assignments (B0-B39) are defined and described in Table 9-7a (HE MIMO Control field encoding).		2017/1/9 9:42
3845	Albert Petrick	225	1 9.4.2.218.2	77	55	E	Y	77.55 9.4.2.218.2	3349	Table 9-262z misaligned Equation in "Encoding" column. "Off" misspelled	Fix alignment of Eq Nmax = 2Maximum Number OFF-MPDUs. Change "Off" to "Off". Increase line spacing between sentences for aligning equation.		2017/1/9 9:42
3846	Albert Petrick	225	1 9.4.1.62	56	30	T	Y	56.30 9.4.1.62	3404	Add clarity. Call out bit positions in Table 9-76a for subfield "Nc Index " corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the number of columns, Nc, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B0-B2): Set to 0 for Nc = 1 Set to 1 for Nc = 2 ... Set to 7 for Nc = 8"		2017/1/9 9:42
3847	Albert Petrick	225	1 28.1.1	211	29	E	Y	211.29 28.1.1		Period missing at end of sentence	Add period at the of sentence after "MIMO)"		2017/1/9 9:42
3848	Albert Petrick	225	1 10.13.2	128	42	T	Y	128.42 10.13.2	3241	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"		2017/1/9 9:42
3849	Albert Petrick	225	1 9.4.1.62	56	38	T	Y	56.38 9.4.1.62	3406	Add clarity. Call out bit positions in Table 9-76a for subfield "Nr Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "Indicates the number of rows, Nr, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B3-B5): Set to 0 for Nr = 1 Set to 1 for Nr = 2 ... Set to 7 for Nr = 8"		2017/1/9 9:42
3850	Albert Petrick	225	1 28.1.1	210	15	E	Y	210.15 28.1.1	3685	Period missing at end of sentence	Add period at the of sentence after "subcarriers"		2017/1/9 9:42
3851	Albert Petrick	225	1 9.4.1.62	56	45	T	Y	56.45 9.4.1.62	3408	Add clarity. Call out bit positions in Table 9-76a for subfield "BW" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the channel width used to determine the starting and ending subcarrier indexes when interpreting the RU Start Index and RU End Index subfields. For 2-bits (B6-B7): Set to 0 for 20 MHz Set to 1 for 40 MHz Set to 2 for 80 MHz Set to 3 for 160 MHz and 80+80 MHz"		2017/1/9 9:42
3852	Albert Petrick	225	1 9.4.1.62	56	53	T	Y	56.53 9.4.1.62	3410	Add clarity. Call out bit positions in Table 9-76a for subfield "Grouping" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the subcarrier grouping, Ng, used for the compressed beamforming feedback matrix: Set bit (B8) as follows: Set to 0 for Ng = 4 Set to 1 for Ng = 16"		2017/1/9 9:42
3853	Albert Petrick	225	1 26.6.2	178	63	T	Y	178.63 26.6.2	3249	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"		2017/1/9 9:42
3854	Albert Petrick	225	1 28.1.1	211	32	E	Y	211.32 28.1.1		Period missing at end of sentence	Add period at the of sentence after "OFDMA)"		2017/1/9 9:42
3855	Albert Petrick	225	1 28.1.1	210	17	E	Y	210.17 28.1.1	3691	Period missing at end of sentence	Add period at the of sentence after "4"		2017/1/9 9:42
3856	Albert Petrick	225	1 9.4.1.62	57	4	T	Y	57.04 9.4.1.62	3412	Add clarity. Call out bit positions in Table 9-76a for subfield "Codebook Information" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline)in "Description" column to read: "Indicates the size of codebook entries: Set bit B9 for SU and MU Feedback types as follows: If Feedback Type is ....."		2017/1/9 9:42
3857	Albert Petrick	225	1 9.4.1.62	57	14	T	Y	57.14 9.4.1.62	3414	The bit positions in Table 9-76a for subfield "Feedback Type" should correspond to those bit posiitons in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the feedback type: For 2-bits (B10-B11) Set to 0 for SU Set to 1 for MU Set to 2 for CQI feedback 3 is reserved"		2017/1/9 9:42
3858	Albert Petrick	225	1 27.15.4.1	203	18	T	Y	203.18 27.15.4.1	3256	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"		2017/1/9 9:42
3859	Albert Petrick	225	1 28.1.1	211	34	E	Y	211.34 28.1.1		Period missing at end of sentence	Add period at the of sentence after "PPDU"		2017/1/9 9:42

3860	Albert Petrick	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62	3416	Add clarity. Call out bit positions in Table 9-76a for subfield "Remaining Feedback Segments" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (as not underlined text) in "Description" column to read: "Indicates the number of remaining feedback segments for the associated VHT Compressed Beamforming frame: For 3-bits (B12-B14) Set to 0 for the last feedback segment of a segmented report……"	2017/1/9 9:42
3861	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1	3698	Period missing at end of sentence	Add period at the of sentence after "11"	2017/1/9 9:42
3862	Albert Petrick	225	1 9.4.2.1	67	16	T	Y	67.16 9.4.2.1	3260	HE Capabilities Element clause number incorrect in Table 9-77 Element IDs	Change clause number to "9.4.2.218"	2017/1/9 9:42
3863	Albert Petrick	225	1 9.4.1.62	57	32	T	Y	57.32 9.4.1.62	3418	Add clarity. Call out bit positions in Table 9-76a for subfield "First Feedback Segments" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (wilhout the underline) in "Description" column to read: "Set bit (B15) as follows: Set to 1 for the first feedback segment of a segmented report or the only feedback segment of an unsegmented report. Set to 0 if not the first feedback segment or if the VHT……."	2017/1/9 9:42
3864	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1	3701	Referencing "MCS 10" not consistent in text in .11ax D1.0. Should use "MCS10"	Change "MCS 10" to MCS10" Change "11" to "MCS11"	2017/1/9 9:42
3865	Albert Petrick	225	1 9.4.2.1	67	20	T	Y	67.20 9.4.2.1	3263	The HE Operation Element clause number is incorrect in Table 9-77 Element IDs.	Change clause number to "9.4.2.219"	2017/1/9 9:42
3866	Albert Petrick	225	1 9.4.1.62	57	40	T	Y	57.40 9.4.1.62	3419	Add clarity. Call out bit positions in Table 9-76a for subfield "RU Start Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "The starting RU index 7-Bits (B16-B22) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
3867	Albert Petrick	225	1 28.3.14.3	342	53	T	Y	342.53 28.3.14.3	3359	CCDF not defined	Change "CCDF" to "complementary cumulative distribution function (CCDF)". Add definiton for CCDF in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3868	Albert Petrick	225	1 28.1.1	211	38	E	Y	211.38 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3869	Albert Petrick	225	1 9.4.1.62	57	43	T	Y	57.43 9.4.1.62	3421	Add clarity. Call out bit positions in Table 9-76a for subfield "RU End Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field.	Add the following underlined text (without the underline) in "Description" column to read: "The ending RU index 7-Bits (B23-B29) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
3870	Albert Petrick	225	1 9.3.1.20	40	1	E	Y	40.01 9.3.1.20	3361	Clause title should not be underlined.	Remove underline; Change to "VHT/HE NDP"	2017/1/9 9:42
3871	Albert Petrick	225	1 28.1.1	210	22	E	Y	210.22 28.1.1	3707	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
3872	Albert Petrick	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	3529	The description of the Sounding Dialog Token Number in Table 9-76a is not correct. This should be similar to the description in Table 9-66.	Add the following underlined text (without the underline) and remove the strikethrough text in "Description" column to read: "The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback. The sounding dialog token is from the HE NDP Announcement frame soliciting feedback."	2017/1/9 9:42
3873	Albert Petrick	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	3363	Parenthesis not needed in Figure 9-52c-Trigger frame	Remove parenthesis - Change "(RA)" to "RA" in Figure 9-52c-Trigger frame	2017/1/9 9:42
3874	Albert Petrick	225	1 9.4.1.62	57	49	T	Y	57.49 9.4.1.62	3423	The "Reserved" subfield and description is missing in Table 9-76a. corresponding to Figure 121a.	At the end of Table 9-76a insert a new row and add the following underlined text (without the underline) "Reserved" in Subfield column, and the following text in Description column. "4-bits (B36-B39) are reserved."	2017/1/9 9:42
3875	Albert Petrick	225	1 28.1.1	211	41	E	Y	211.41 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3876	Albert Petrick	225	1 9.3.1.23	41	59	E	Y	41.59 9.3.1.23	3365	Add space between sentences	Add space at end of sentence after the word "STA."	2017/1/9 9:42
3877	Albert Petrick	225	1 9.4.1.63	58	28	T	Y	58.28 9.4.1.63	3425	Equation (8-1) missing	Add reference and/or detailed equation (8-1)	2017/1/9 9:42
3878	Albert Petrick	225	1 28.1.1	210	26	E	Y	210.26 28.1.1	3714	Period missing at end of sentence	Add period at the of sentence after "STA"	2017/1/9 9:42
3879	Albert Petrick	225	1 9.4.1.63	59	57	T	Y	59.57 9.4.1.63	3427	In Table 9-76c, "FB" in 20, 40 and 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
3880	Albert Petrick	225	1 28.1.1	211	42	E	Y	211.42 28.1.1		Period missing at end of sentence	Add period at the of sentence after "puncturing"	2017/1/9 9:42

3881	Albert Petrick	225	1 9.4.1.63	61	57	T	Y	61.57 9.4.1.63	3428	In Table 9-76d, "FB" in 20,40, 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.		2017/1/9 9:42
3882	Albert Petrick	225	1 9.3.1.23	41	61	E	Y	41.61 9.3.1.23	3369	Add space between sentences	Add space at end of sentence after the word "address."		2017/1/9 9:42
3883	Albert Petrick	225	1 9.4.1.63	59	38	T	Y	59.38 9.4.1.63	3539	The S-tone and E-tone description needs clarification when comparing and referencing tables 9-76c and 9-76d.	Add underlined text (without the underline) and remove strikethrough text from line 38 to 49 as follows: The S-tone and E-tone corresponding to the possible RU indices for 20MHz, 40MHz and 80 MHz channels are listed in Table 9-76c and Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 are shown in Table 9-76c, and for Ng = 16 for in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16. For 160 MHz, to determine the S-tone and E-tone, RUs 37 to 73 occupying the higher 80 MHz use the same entries in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) and Table 9-76d (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index Ng = 16) as		2017/1/9 9:42
3884	Albert Petrick	225	1 28.1.1	210	30	E	Y	210.30 28.1.1	3722	Period missing at end of sentence	Add period at the of sentence after "STA".		2017/1/9 9:42
3885	Albert Petrick	225	1 9.3.3.6	53	36	E	Y	53.36 9.3.3.6	3371	spelling hyphen error in Table 9-30	In Table 9-30 remove hyphen change "pre-sent" to "present"		2017/1/9 9:42
3886	Albert Petrick	225	1 9.4.1.63	63	21	T	Y	63.21 9.4.1.63	3431	Calculating the AveSNRi needs more clarification.	Add the following underlined text (without the underline) and remove the strikethrough text from lines 21 through 30 as follows: The AvgSNRi in Table 9-71 (Average SNR of Space-Time Stream i subfield) is found determined by computing the SNR per subcarrier in decibels for the subcarriers in 20 MHz channel bandwidth identified in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 , and for Ng = 16 in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16, and then The computing tThe arithmetic mean is calculated of for those values. Each SNR value per subcarrier in stream i (before being averaged) corresponds to the SNR associated with the column i of the beamforming feedback matrix V determined at the beamformee. Each SNR		2017/1/9 9:42
3887	Albert Petrick	225	1 9.3.3.8	54	30	E	Y	54.30 9.3.3.8	3373	spelling hyphen error in Table 9-32	In Table 9-32 remove hyphen change "pre-sent" to "present"		2017/1/9 9:42
3888	Albert Petrick	225	1 28.1.1	211	47	E	Y	211.47 28.1.1		Period missing at end of sentence	Add period at the of sentence after "OFDMA)"		2017/1/9 9:42
3889	Albert Petrick	225	1 9.4.1.63	63	4	E	Y	63.04 9.4.1.63	3432	Spelling error "indeces" in Table 9-763	Change "indeces" to "indices"		2017/1/9 9:42
3890	Albert Petrick	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11	3374	spelling hyphen error in Table 9-34	In Table 9-34 remove hyphen change "pre-sent" to "present"		2017/1/9 9:42
3891	Albert Petrick	225	1 28.1.1	210	31	E	Y	210.31 28.1.1	3727	Period missing at end of sentence	Add period at the of sentence after "MSC11"		2017/1/9 9:42
3892	Albert Petrick	225	1 9.4.1.64	64	48	T	Y	64.48 9.4.1.64	3434	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR		2017/1/9 9:42
3893	Albert Petrick	225	1 9.2.4.1.10	20	5	T	Y	20.05 9.2.4.1.10	3375	"HCT/Order subfield" naming should be consistent when referenced in text. It's referenced as "HTC/Order field"	Change to "HCT/Order subfield" on lines 5 and 7		2017/1/9 9:42
3894	Albert Petrick	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1	3377	Reverse Direction Protocol (RDP) in Table 9-18a is missing reference "subclause reference" in the Content of the Control Information subfield.	Add the following clause reference: "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"		2017/1/9 9:42

3895	Albert Petrick	225	1 28.1.1	211	50	E	Y	211.50 28.1.1		Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
3896	Albert Petrick	225	1 9.2.4.6.4.1	22	59	T	Y	22.59 9.2.4.6.4.1	3483	In clause A-Control 9.2.6.4 the text needs to clarify the bit length in the Control ID subfields, describe the sequence ordering and state how many Control IDs are defined and reserved. The text should flow with Table 9-15b, and Table 9-18a.	Add the following underlined text (without the underline), and remove the strikethrough text from lines 59 to 65 on page 22 and lines 11 - 12 to read as follows: The A-Control subfield contains a sequence of one or more Control subfields. The format of each Control subfield is defined shown in Figure 9-15b (Control subfield format). The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence. The Control ID subfield as shown in Figure 9-15b (Control subfield format) is 4-bits in length and indicates the type of information carried in the Control Information subfield. The bit length of the Control Information subfield is fixed for each value of the Control ID subfield that is not reserved. The values of the Control ID subfield and the associated length of the Control Information subfield are	2017/1/9 9:42
3897	Albert Petrick	225	1 28.1.1	210	33	E	Y	210.33 28.1.1	3247	Period missing at end of sentence	Add period at the of sentence after "S"	2017/1/9 9:42
3898	Albert Petrick	225	1 9.4.1.64	64	53	T	Y	64.53 9.4.1.64	3436	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
3899	Albert Petrick	225	1 9.2.4.6.4.2	24	20	E	Y	24.20 9.2.4.6.4.2	3380	Editorial formatting error with Target receiver power, TRSSI,	Remove comma "," before TRSSI and change ", TRSSI" to "(TRSSI)"	2017/1/9 9:42
3900	Albert Petrick	225	1 9.4.1.64	64	13	E	Y	64.13 9.4.1.64	3437	Remove paragraph indent	Fix paragraph alignment starting at "No padding is present...."	2017/1/9 9:42
3901	Albert Petrick	225	1 28.1.1	211	62	E	Y	211.62 28.1.1	3268	Period missing at end of sentence	Add period at the of sentence after "least 4"	2017/1/9 9:42
3902	Albert Petrick	225	1 9.2.4.6.4.2	23	59	T	Y	23.59 9.2.4.6.4.2	3381	Provide more clarity: UL PPDU subfield. The text should reference the "5-bits" for UL PPDU Length field in Figure 9-15c.	Insert text "is 5-bits (B0-B4) that" after the word subfield.	2017/1/9 9:42
3903	Albert Petrick	225	1 9.4.1.64	64	18	T	Y	64.18 9.4.1.64	3439	Equation (9-2) is referenced in the text and in Table 9-76f HE MU Exclusive Beamforming Report information, and is not linked or referenced to any other documents. Equation (9-2) should be linked and referenced to its location IEEE 802.11-2016 (Rev D8.0) and clarified as a "Note" at the end of Table 9-76f.	Add note for equation 9-2 in text and/or add the following underlined text (without the underline) and reference link in Table 9-76f as a Note: "as defined in Equation (9-2) in clause 9.4.1.51 (MU Exclusive Beamforming Report Field)"	2017/1/9 9:42
3904	Albert Petrick	225	1 28.1.1	210	35	E	Y	210.35 28.1.1	3254	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
3905	Albert Petrick	225	1 9.2.4.6.4.6	27	39	T	Y	27.39 9.2.4.6.4.6	3382	No reference to the bits in the Reserve subfield In 9.2.4.6.4.6.	Add the following sentence "Bits (B6-B7) are reserved." after the sentence on line 39.	2017/1/9 9:42
3906	Albert Petrick	225	1 9.4.1.64	64	30	T	Y	64.30 9.4.1.64	3440	Equation (9-2) reference in Table 9-76f calls out subcarrier k=scidx(0) and k=scidx(1). Equation 9-2 in IEEE 802.11-2016 (Rev D8.0) in clause 9.4.1.51 specifies k=sscidx(0) and k=sscidx(1) There appears to be an ambiguity in equation in 9-2 and with k=scidx(_)	Fix references for subcarrier k=scidx(0) and k=scidx(1) in Table 9-76f (lines 30-54) to match assumptions with equation 9-2 in clause 9.4.1.51 in IEEE 802.11-2016 (Rev D8.0)	2017/1/9 9:42

3907	Albert Petrick	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	3384	The bits in Table 9-15i should be called in the text for clarification.	Add the following underlined text. The Control Information 8-bit subfield for the RDP Trigger frame is shown in Figure 9-15i (Control Information subfield format when the Control ID subfield is 6), 6-bits (B2-B7) are reserved. The AC Constraint subfield bit (B0) of the RDP field indicates whether the mapped AC of an RD Data frame is constrained to a single AC, and is defined in Table 9-10 (AC Constraint subfield values), except that if B0 equals a value of 1 indicates that the response from an HE STA contains Data frames from the same AC or higher AC as defined in 10.28.4 (Rules for RD responder). The RDG/More PPDU subfield bit (B1) is defined in Table 9-11 (RDG/More PPDU subfield values).	2017/1/9 9:42
3908	Albert Petrick	225	1 28.4.2	371	36	T	Y	371.36 28.4.2	3441	Clarify "aSignalExtension" referenced from Table 19-25	Add the following underlined text (without the underline): and is aSignalExtension (0us for 5 GHz band, 6us for 2.4 GHz band)	2017/1/9 9:42
3909	Albert Petrick	225	1 28.1.1	212	2	E	Y	212.02 28.1.1	3280	Period missing at end of sentence	Add period at the of sentence after "applicable"	2017/1/9 9:42
3910	Albert Petrick	225	1 9.3.1.24	41	23	T	Y	41.23 9.3.1.24	3385	CQI acronym not defined in Table 9-25a	Add definition for CQI in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3911	Albert Petrick	225	1 28.1.1	210	38	E	Y	210.38 28.1.1	3264	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3912	Albert Petrick	225	1 28.4.2	371	39	E	Y	371.39 28.4.2	3443	Missing period	Add period at the end of sentence after "false"	2017/1/9 9:42
3913	Albert Petrick	225	1 9.4.2.218.3	82	12	E	Y	82.12 9.4.2.218.3	3387	Missing period after sentences in Table 9-262aa	Add "periods" after each sentence in the Definition and Encoding columns in Table 9-262aa	2017/1/9 9:42
3914	Albert Petrick	225	1 9.2.5.2	32	1	E	Y	32.01 9.2.5.2	3444	Format error - sentence alignment	Sentence format needs to be left justified.	2017/1/9 9:42
3915	Albert Petrick	225	1 28.1.1	212	2	E	Y	212.02 28.1.1		Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3916	Albert Petrick	225	1 9.4.2.218.5	89	36	T	Y	89.36 9.4.2.218.5	3388	PPET, PPET8 and PPET16 acronym not defined	Add definitions for PPET, PPET8 and PPET16 in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3917	Albert Petrick	225	1 9.3.1.9.1	34	12	T	Y	34.12 9.3.1.9.1	3446	In Figure 9-33 (BA Control Field) Bit (B5) in the Reserve sub-field is marked as deleted (strikethrough) as shown. The Reserved subfield now shows 7-bits (B6-B11). The text does not describe B5. Define B5 or correct Figure 9-33	Fix as commented	2017/1/9 9:42
3918	Albert Petrick	225	1 28.1.1	210	41	E	Y	210.41 28.1.1	3747	Period missing at end of sentence	Add period at the of sentence after "MIMO)"	2017/1/9 9:42
3919	Albert Petrick	225	1 9.4.2.221	94	56	T	Y	94.56 9.4.2.221	3244	MUEDCATimer not defined	Add definition for MUEDCATimer in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3920	Albert Petrick	225	1 B.4.27.2	413	45	E	Y	413.45 B.4.27.2	3447	Numbering / letter (5GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "5GHz" to "5 GHz"	2017/1/9 9:42
3921	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3246	Sentence center justified should be left justified	Left justify sentence; "A STA for which dot11HEOptionImplemented is true shall set dot11VeryHighThroughputOptionImplemented or dot11HighThroughputOptionImplemented to true."	2017/1/9 9:42
3922	Albert Petrick	225	1 9.3.1.23	45	6	E	Y	45.06 9.3.1.23	3449	Number / letter (2.4GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "2.4GHz" to "2.4 GHz"	2017/1/9 9:42
3923	Albert Petrick	225	1 28.1.1	212	9	E	Y	212.09 28.1.1		Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
3924	Albert Petrick	225	1 28.3.11.5	317	32	T	Y	317.32 28.3.11.5	3251	BCC acronym not defined	Add definition for "BCC = binary convolutional code" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3925	Albert Petrick	225	1 28.1.1	210	44	E	Y	210.44 28.1.1	3754	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3926	Albert Petrick	225	1 28.3.11.5	317	33	T	Y	317.33 28.3.11.5	3252	LDPC acronym not defined	Add definition for "LDPC = low density parity check " in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
3927	Albert Petrick	225	1 9.4.2.218.2	76	24	E	Y	76.24 9.4.2.218.2	3450	Format error - sentence alignment	Fix paragraph alignment - left justify.	2017/1/9 9:42
3928	Albert Petrick	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23	3255	Space missing between words in GIAnd LTF Type subfield of Figure 9-52	Add character space between the letters "IA" in "GIAnd LTF Type". Should read as "GI And LTF Type"	2017/1/9 9:42
3929	Albert Petrick	225	1 28.1.1	212	14	E	Y	212.14 28.1.1		Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42

3930 Albert Petrick	225	1 9.4.2.218.3	81	35	E	Y	81.35 9.4.2.218.3	3453	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield NSTA Total For < 80 MHz is labeled as having 2-bits. There are 3-bits (B37 -B39).	Change Bits "2" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9m-589cl	2017/1/9 9:42
3931 Albert Petrick	225	1 9.4.1.62	56	15	E	Y	56.15 9.4.1.62	3259	Table 9-121a bit positions misalgned	Fix bit alignment with each subfield and resize Figure 9-121a to fit center of page.	2017/1/9 9:42
3932 Albert Petrick	225	1 28.1.1	210	46	E	Y	210.46 28.1.1	3763	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3933 Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3455	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For < 80 MHz" is mark as having 1-bit. There are 3-bits (B46 -B48).	Change Bits "1" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9-589cl	2017/1/9 9:42
3934 Albert Petrick	225	1 9.4.1.62	56	4	T	Y	56.04 9.4.1.62	3261	The text in Clause 9.4.1.62 HE MIMO Control field) needs clarification. The text should call out number of bits and range of bits for Figure 9-121a.	Add the following underlined text (not underlined text) . The HE MIMO Control field is included in every HE Compressed Beamforming frame (see 9.4.1.63 (HE Compressed Beamforming Report field)). The HE MIMO Control field is 40-bits (B0-B39) and is defined in Figure 9-121a (HE MIMO Control field). The subfields and bit assignments (B0-B39) are defined and described in Table 9-7a (HE MIMO Control field encoding).	2017/1/9 9:42
3935 Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3270	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For > 80 MHz" is labeled as 1-bit. There are 3-bits (B49 -B51).	Change Bits "1" to "3" for subfield "NSTS Total for > 80 MHz" in Figure 9-589cl	2017/1/9 9:42
3936 Albert Petrick	225	1 28.1.1	212	17	E	Y	212.17 28.1.1		Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
3937 Albert Petrick	225	1 9.4.1.62	56	30	T	Y	56.30 9.4.1.62	3404	Add clarity. Call out bit positions in Table 9-76a for subfield "Nc Index " corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the number of columns, Nc, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B0-B2): Set to 0 for Nc = 1 Set to 1 for Nc = 2 ... Set to 7 for Nc = 8"	2017/1/9 9:42
3938 Albert Petrick	225	1 9.4.2.218.3	83	6	T	Y	83.06 9.4.2.218.3	3274	Add clarity. Call out bit positions in Table 9-262aa for subfield "Device Class" corresponding to those bit positions in Figure 9-589cl	In "Definition" column: Add "B12:" at the beginning of the sentence." In the "Encoding" column: Before sentence Add "B12:" "Set to 1 to indicate STA is a Class A device." In the "Encoding" column: Before sentence Add "B12:" Set to 0 to indicate STA is a Class B device. Note: This field is reserved when transmitting STA is an AP STA."	2017/1/9 9:42
3939 Albert Petrick	225	1 28.1.1	210	48	E	Y	210.48 28.1.1	3769	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
3940 Albert Petrick	225	1 9.4.1.62	56	38	T	Y	56.38 9.4.1.62	3406	Add clarity. Call out bit positions in Table 9-76a for subfield "Nr Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "Indicates the number of rows, Nr, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B3-B5): Set to 0 for Nr = 1 Set to 1 for Nr = 2 ... Set to 7 for Nr = 8"	2017/1/9 9:42
3941 Albert Petrick	225	1 9.4.2.218.3	83	13	T	Y	83.13 9.4.2.218.3	3277	Add clarity and call out bit positions in Table 9-262aa for subfield "LDPC Coding In Payload" corresponding to those bit positions in Figure 9-589cl	Change text in "Definition" column to read: "B13: Indicates support of transmission...." Change text in "Encoding" column to read: "B13: Set to 1 to indicate STA... B13: Set to 9 otherwise. "	2017/1/9 9:42

3942	Albert Petrick	225	1 9.4.1.62	56	45	T	Y	56.45 9.4.1.62	3408	Add clarity. Call out bit positions in Table 9-76a for subfield "BW" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the channel width used to determine the starting and ending subcarrier indexes when interpreting the RU Start Index and RU End Index subfields. For 2-bits (B6-B7): Set to 0 for 20 MHz Set to 1 for 40 MHz Set to 2 for 80 MHz Set to 3 for 160 MHz and 80+80 MHz"	2017/1/9 9:42
3943	Albert Petrick	225	1 28.1.1	212	19	E	Y	212.19 28.1.1		Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
3944	Albert Petrick	225	1 9.4.2.218.3	83	16	T	Y	83.16 9.4.2.218.3	3282	Add clarity and call out bit positions in Table 9-262 aa for subfield "HE-LTF And GI For HE PPDUs" corresponding to those bit positions in Figure 9-589cl	Change text in "Encoding column to read: "For B14 and B15: Set to 1 if supported by the STA. Set to 0 otherwise."	2017/1/9 9:42
3945	Albert Petrick	225	1 9.4.1.62	56	53	T	Y	56.53 9.4.1.62	3410	Add clarity. Call out bit positions in Table 9-76a for subfield "Grouping" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (wilhout the underline) in "Description" column to read: "Indicates the subcarrier grouping, Ng, used for the compressed beamforming feedback matrix: Set bit (B8) as follows: Set to 0 for Ng = 4 Set to 1 for Ng = 16"	2017/1/9 9:42
3946	Albert Petrick	225	1 28.1.1	210	50	E	Y	210.50 28.1.1	3776	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3947	Albert Petrick	225	1 9.4.2.218.3	82	15	E	Y	82.15 9.4.2.218.3	3286	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 2.4 GHz.	2017/1/9 9:42
3948	Albert Petrick	225	1 9.4.1.62	57	4	T	Y	57.04 9.4.1.62	3412	Add clarity. Call out bit positions in Table 9-76a for subfield "Codebook Information" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (wilhout the underline)in "Description" column to read: "Indicates the size of codebook entries: Set bit B9 for SU and MU Feedback types as follows: If Feedback Type is ....."	2017/1/9 9:42
3949	Albert Petrick	225	1 9.4.1.62	57	14	T	Y	57.14 9.4.1.62	3414	The bit positions in Table 9-76a for subfield "Feedback Type" should correspond to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the feedback type: For 2-bits (B10-B11) Set to 0 for SU Set to 1 for MU Set to 2 for CQI feedback 3 is reserved"	2017/1/9 9:42
3950	Albert Petrick	225	1 28.1.1	212	22	E	Y	212.22 28.1.1		Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
3951	Albert Petrick	225	1 28.1.1	210	58	E	Y	210.58 28.1.1	3785	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
3952	Albert Petrick	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62	3416	Add clarity. Call out bit positions in Table 9-76a for subfield "Remaining Feedback Segments" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (as not underlined text) in "Description" column to read: "Indicates the number of remaining feedback segments for the associated VHT Compressed Beamforming frame: For 3-bits (B12-B14) Set to 0 for the last feedback segment of a segmented report......"	2017/1/9 9:42
3953	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3465	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
3954	Albert Petrick	225	1 9.4.1.62	57	32	T	Y	57.32 9.4.1.62	3418	Add clarity. Call out bit positions in Table 9-76a for subfield "First Feedback Segments" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (wilhout the underline) in "Description" column to read: "Set bit (B15) as follows: Set to 1 for the first feedback segment of a segmented report or the only feedback segment of an unsegmented report. Set to 0 if not the first feedback segment or if the VHT....."	2017/1/9 9:42
3955	Albert Petrick	225	1 9.4.1.62	57	40	T	Y	57.40 9.4.1.62	3419	Add clarity. Call out bit positions in Table 9-76a for subfield "RU Start Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "The starting RU index 7-Bits (B16-B22) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
3956	Albert Petrick	225	1 28.1.1	212	27	E	Y	212.27 28.1.1		Period missing at end of sentence	Add period at the of sentence after "applicable"	2017/1/9 9:42
3957	Albert Petrick	225	1 28.1.1	210	64	E	Y	210.64 28.1.1	3792	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
3958	Albert Petrick	225	1 9.4.2.218.3	82	20	E	Y	82.20 9.4.2.218.3	3468	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42

3959	Albert Petrick	225	1 9.4.1.62	57	43	T	Y	57.43 9.4.1.62	3421	Add clarity. Call out bit positions in Table 9-76a for subfield "RU End Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field.	Add the following underlined text (without the underline) in "Description" column to read: "The ending RU index 7-Bits (B23-B29) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
3960	Albert Petrick	225	1 28.1.1	210	64	T	Y	210.64 28.1.1	3795	Bandwidth should be specific to 20 MHz channels	Add the word "channel" before "bandwidth"	2017/1/9 9:42
3961	Albert Petrick	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	3529	The description of the Sounding Dialog Token Number in Table 9-76a is not correct. This should be similar to the description in Table 9-66.	Add the following underlined text (without the underline) and remove the strikethrough text in "Description" column to read: "The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback. The sounding dialog token is from the HE NDP Announcement frame soliciting feedback. "	2017/1/9 9:42
3962	Albert Petrick	225	1 28.1.1	212	35	E	Y	212.35 28.1.1		Period missing at end of sentence	Add period at the of sentence after "least 4"	2017/1/9 9:42
3963	Albert Petrick	225	1 9.4.1.62	57	49	T	Y	57.49 9.4.1.62	3423	The "Reserved" subfield and description is missing in Table 9-76a. corresponding to Figure 121a.	At the end of Table 9-76a insert a new row and add the following underlined text (without the underline) "Reserved" in Subfield column, and the following text in Description column. "4-bits (B36-B39) are reserved."	2017/1/9 9:42
3964	Albert Petrick	225	1 9.4.2.218.3	82	23	E	Y	82.23 9.4.2.218.3	3471	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
3965	Albert Petrick	225	1 9.4.1.63	58	28	T	Y	58.28 9.4.1.63	3425	Equation (8-1) missing	Add reference and/or detailed equation (8-1)	2017/1/9 9:42
3966	Albert Petrick	225	1 28.1.1	211	5	E	Y	211.05 28.1.1	3800	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
3967	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3472	Table 9-262aa, "Encoding column" missing period at end of sentence	Fix. Change "Note" to "NOTE" and add colon ":" after "NOTE:"	2017/1/9 9:42
3968	Albert Petrick	225	1 9.4.1.63	59	57	T	Y	59.57 9.4.1.63	3427	In Table 9-76c, "FB" in 20, 40 and 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
3969	Albert Petrick	225	1 9.4.2.218.3	82	44	T	Y	82.44 9.4.2.218.3	3474	Table 9-262aa, grammar issue	Change "of" to "on"	2017/1/9 9:42
3970	Albert Petrick	225	1 28.1.1	212	39	E	Y	212.39 28.1.1		Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42
3971	Albert Petrick	225	1 9.4.1.63	61	57	T	Y	61.57 9.4.1.63	3428	In Table 9-76d, "FB" in 20,40, 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
3972	Albert Petrick	225	1 9.4.2.218.3	82	47	E	Y	82.47 9.4.2.218.3	3476	Table 9-262aa, "Definition column" missing period at end of sentence and line between paragraphs	Fix. In the Definition column Add period "." after "punctured." and carriage return before B9, B10, and B11 on lines 47, 51, and 56. On line 60 add period after "is present."	2017/1/9 9:42
3973	Albert Petrick	225	1 28.1.1	211	8	E	Y	211.08 28.1.1	3807	Period missing at end of sentence	Add period at the of sentence after "PPDU"	2017/1/9 9:42
3974	Albert Petrick	225	1 9.4.1.63	59	38	T	Y	59.38 9.4.1.63	3539	The S-tone and E-tone description needs clarification when comparing and referencing tables 9-76c and 9-76d.	Add underlined text (wihout the underline) and remove strikethrough text from line 38 to 49 as follows: The S-tone and E-tone corresponding to the possible RU indices for 20MHz, 40MHz and 80 MHz channels are listed in Table 9-76c and Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 are shown in Table 9-76c, and for Ng = 16 for in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16. For 160 MHz, to determine the S-tone and E-tone, RUs 37 to 73 occupying the higher 80 MHz use the same entries in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) and Table 9-76d (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index Ng = 16) as	2017/1/9 9:42
3975	Albert Petrick	225	1 9.4.2.218.3	93	25	E	Y	93.25 9.4.2.218.3	3479	Table 9-262aa, missing period at the end of sentence	Fix. In the "Definition column", Add period "." after the "duration" on lines 25 and 29.	2017/1/9 9:42

3976	Albert Petrick	225	1 28.1.1	212	43	E	Y	212.43 28.1.1		Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42
3977	Albert Petrick	225	1 9.4.1.63	63	21	T	Y	63.21 9.4.1.63	3431	Calculating the AveSNRi needs more clarification.	Add the following underlined text (without the underline) and remove the strikethrough text from lines 21 through 30 as follows: The AvgSNRi in Table 9-71 (Average SNR of Space-Time Stream i subfield) is found determined by computing the SNR per subcarrier in decibels for the subcarriers in 20 MHz channel bandwidth identified in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 , and for Ng = 16 in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16, and then The computing tThe arithmetic mean is calculated of for those values. Each SNR value per subcarrier in stream i (before being averaged) corresponds to the SNR associated with the column i of the beamforming feedback matrix V determined at the beamformee. Each SNR	2017/1/9 9:42
3978	Albert Petrick	225	1 9.4.2.218.3	83	34	E	Y	83.34 9.4.2.218.3	3481	Table 9-262aa, missing period and colon in sentence.	Fix. In the "Definition column, Add period "." after the "stream" on lines 35 and 39. In Encoding column Add ":" after B18 on line 34 and B19 on line 37.	2017/1/9 9:42
3979	Albert Petrick	225	1 28.3.3.2	230	1	E	Y	230.01 28.3.3.2		Missing hyphen	Add hyphen " - " after "484"	2017/1/9 9:42
3980	Albert Petrick	225	1 9.4.1.63	63	4	E	Y	63.04 9.4.1.63	3432	Spelling error "indeces" in Table 9-763.	Change "indeces" to "indices"	2017/1/9 9:42
3981	Albert Petrick	225	1 28.1.1	211	9	E	Y	211.09 28.1.1	3813	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
3982	Albert Petrick	225	1 9.4.1.64	64	48	T	Y	64.48 9.4.1.64	3434	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
3983	Albert Petrick	225	1 9.4.2.218.3	83	40	E	Y	83.40 9.4.2.218.3	3484	Table 9-262aa, missing period and colon in sentence.	In the Definition column, Add colon ":" after B20 and B21. Add period after "procedure." on lines 41 and 43. In Encoding column Add colon after B20 on line 40 and B21 on line 43. Add extra line space between lines 41 and 42.	2017/1/9 9:42
3984	Albert Petrick	225	1		2	T	Y		3287	.11ax D1.0 makes reference to IEEE P802.11REVmc-D8.0, which is essentially IEEE P802.11-2016 (the new rollup baseline standard) and soon to be published in 2017. Once it is published, P802.11REVmc-D8.0 will be removed from the IEEE 802.11 working group members area on the website and will not be available in public domain on the IEEE 802.11 work group document server for public use. All references in .11ax D1.0 to clauses in the baseline standard should be made to IEEE P802.11-2016 and not to IEEE P802.11REVmc-D8.0.	Remove IEEE P802.11REVmc(TM)/D8.0 and replace with IEEE P802.11-2016	2017/1/9 9:42
3985	Albert Petrick	225	1 9.4.2.218.3	83	58	E	Y	83.58 9.4.2.218.3	3486	Table 9-262aa, missing period at the end of sentence.	Add period after "MU-MIMO" on line 58.	2017/1/9 9:42
3986	Albert Petrick	225	1 28.3.10.5	212	49	E	Y	212.49 28.3.10.5		Period missing at end of sentence	Add period at the of sentence after "false"	2017/1/9 9:42
3987	Albert Petrick	225	1 28.1.1	211	13	E	Y	211.13 28.1.1	3273	Period missing at end of sentence	Add period at the of sentence after "DL OFDMA)"	2017/1/9 9:42
3988	Albert Petrick	225	1			G	Y		3288	The title of the column headers in ALL of the tables need to be formatted; 1) center text in title. 2) lock 1st row of table to continue on next page.	Fix and format ALL tables headers (1st row) and enable 1st row to roll-over on next page when tables don't fit on current page.	2017/1/9 9:42
3989	Albert Petrick	225	1 9.4.1.64	64	53	T	Y	64.53 9.4.1.64	3436	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
3990	Albert Petrick	225	1 9.4.2.218.3	82	11	T	Y	82.11 9.4.2.218.3	3488	Add clarity and call out bit position in Table 9-262aa for subfield "Dual Band Support" corresponding to those bit positions in Figure 9-589cl	Add bit B0 in Definition column Change to: "B0 indicates support of both...."	2017/1/9 9:42
3991	Albert Petrick	225	1 28.3.10.7.2	275	21	E	Y	275.21 28.3.10.7.2		Period missing in Table 28-16	Add period after "1"	2017/1/9 9:42

3992	Albert Petrick	225	1			G	Y		3289	Throughout .11ax D1.0 there are references where some bits have hyphens and others do not e.g., 1 bit, and 1-bit . The text, Tables and Figures should be consistent using "hyphens" as used in IEEE 802.11-2016.	Fix. Include hyphens in text, Tables and Figures similar to the format utilized in baseline IEEE 802.11-2016	2017/1/9 9:42
3993	Albert Petrick	225	1 9.4.1.64	64	13	E	Y	64.13 9.4.1.64	3437	Remove paragraph indent	Fix paragraph alignment starting at "No padding is present...."	2017/1/9 9:42
3994	Albert Petrick	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3	3490	Add clarity and call out bit position in Table 9-262aa for subfield "UL HE MU PPDU Payload Support" corresponding to those bit positions in Figure 9-589cl	Add bit B30 in Definition column Change to: "B30 indicates that the STA supports the reception of....."	2017/1/9 9:42
3995	Albert Petrick	225	1 28.3.1.8.3	289	19	E	Y	289.19 28.3.1.8.3		Missing space between sentences	Add space and the end of the sentence after the period " . "	2017/1/9 9:42
3996	Albert Petrick	225	1 28.1.1	211	15	E	Y	211.15 28.1.1	3283	Period missing at end of sentence	Add period at the of sentence after "(UL OFDMA)"	2017/1/9 9:42
3997	Albert Petrick	225	1			G	Y		3290	Throughout .11ax D1.0 cross-reference links in text to tables, figures, equations, clauses and sub-clauses either broken, and non-existent.	Fix cross-reference links in text, tables, figures, equations and external links	2017/1/9 9:42
3998	Albert Petrick	225	1 9.4.1.64	64	18	T	Y	64.18 9.4.1.64	3439	Equation (9-2) is referenced in the text and in Table 9-76f HE MU Exclusive Beamforming Report information, and is not linked or referenced to any other documents. Equation (9-2) should be linked and referenced to its location IEEE 802.11-2016 (Rev D8.0) and clarified as a "Note" at the end of Table 9-76f.	Add note for equation 9-2 in text and/or add the following underlined text (without the underline) and reference link in Table 9-76f as a Note: "as defined in Equation (9-2) in clause 9.4.1.51 (MU Exclusive Beamforming Report Field)"	2017/1/9 9:42
3999	Albert Petrick	225	1 9.4.2.218.3	84	31	T	Y	84.31 9.4.2.218.3	3492	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B31 in Definition column Change to: "B31 indicates support for operation as an SU beamformer."	2017/1/9 9:42
4000	Albert Petrick	225	1 28.3.5	246	33	T	Y	246.33 28.3.5		OFDMA PPDU not clarified with HE	Add underlined text (without the underline) and remove strikethrough text from line 33 to 35 as follows: "This also includes the SU transmission in an RU that is part of a downlink or uplink HE OFDMA PPDU, and a transmission from one STA that is part of an UL MU-MIMO transmission in current RU.	2017/1/9 9:42
4001	Albert Petrick	225	1			G	Y		3291	Throughout .11ax D1.0 the alignment of the terms in equations and spacing between paragraph text and equations need to be centered on the pages.	Fix spacing of terms in equations and space of text between equations.	2017/1/9 9:42
4002	Albert Petrick	225	1 9.4.1.64	64	30	T	Y	64.30 9.4.1.64	3440	Equation (9-2) reference in Table 9-76f calls out subcarrier k=scidx(0) and k=scidx(1). Equation 9-2 in IEEE 802.11-2016 (Rev D8.0) in clause 9.4.1.51 specifies k=sscidx(0) and k=sscidx(1) There appears to be an ambiguity in equation in 9-2 and with k=scidx(_)	Fix references for subcarrier k=scidx(0) and k=scidx(1) in Table 9-76f (lines 30-54) to match assumptions with equation 9-2 in clause 9.4.1.51 in IEEE 802.11-2016 (Rev D8.0)	2017/1/9 9:42
4003	Albert Petrick	225	1 9.4.2.218.3	84	36	T	Y	84.36 9.4.2.218.3	3494	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformee" corresponding to those bit positions in Figure 9-589cl	Add bit B32 in Definition column Change to: "B32 indicates support for operation as an SU beamformee."	2017/1/9 9:42
4004	Albert Petrick	225	1 3.4	7	13	E	Y	7.13 3.4	3292	hyphen error -- hyphen between the words frequency and division "Orthogonal frequency-division multiple access" The use of hyphens should be consistent with what is used in IEEE 802.11-2016.	Remove hyphen after "frequency"	2017/1/9 9:42
4005	Albert Petrick	225	1 28.4.2	371	36	T	Y	371.36 28.4.2	3441	Clarify "aSignalExtension" referenced from Table 19-25	Add the following underlined text (without the underline): and is aSignalExtension (0us for 5 GHz band, 6us for 2.4 GHz band)	2017/1/9 9:42
4006	Albert Petrick	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	3496	Add clarity and call out bit position in Table 9-262aa for subfield "MU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B33 in Definition column Change to: "B33 indicates support for operation as an MU beamformer."	2017/1/9 9:42
4007	Albert Petrick	225	1 28.1.1	211	18	E	Y	211.18 28.1.1	3829	Period missing at end of sentence	Add period at the of sentence after "streams"	2017/1/9 9:42
4008	Albert Petrick	225	1 28.3.11.2	315	33	E	Y	315.33 28.3.11.2		Paragraph misaligned	Left justify	2017/1/9 9:42
4009	Albert Petrick	225	1 4.3.14a	9	33	T	Y	9.33 4.3.14a	3293	"RU" not defined	Add definition for "RU" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42

4010 Albert Petrick	225	1 28.4.2	371	39	E	Y	371.39 28.4.2	3443	Missing period	Add period at the end of sentence after "false"	2017/1/9 9:42
4011 Albert Petrick	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3	3267	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamforemee STS For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B34-B36 in Definition column Change to: "B34-B36 indicates the maximum number of space-time streams the STA can receive in an HE NDP."	2017/1/9 9:42
4012 Albert Petrick	225	1 28.3.11.3	317	4	E	Y	317.04 28.3.11.3		Grammar issue	Delete the word "as"	2017/1/9 9:42
4013 Albert Petrick	225	1 6.3.4.2.2	11		E	Y	11.00 6.3.4.2.2	3294	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
4014 Albert Petrick	225	1 9.2.5.2	32	1	E	Y	32.01 9.2.5.2	3444	Format error - sentence alignment	Sentence format needs to be left justified.	2017/1/9 9:42
4015 Albert Petrick	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3	3272	Add clarity and call out bit positions in Table 9-262aa for subfield "NTST Total For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B37-B39 in Definition column Change to: "B37-B39 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
4016 Albert Petrick	225	1 28.3.6.4	250	36	T	Y	250.36 28.3.6.4		Binary convolutional coding and BCC referenced in various subclauses, figures, and tables. This should be defined.	Add definition for "BCC" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4017 Albert Petrick	225	1 28.1.1	211	21	E	Y	211.21 28.1.1	3835	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4018 Albert Petrick	225	1 9.3.1.9.1	34	12	T	Y	34.12 9.3.1.9.1	3446	In Figure 9-33 (BA Control Field) Bit (B5) in the Reserve sub-field is marked as deleted (strikethrough) as shown. The Reserved subfield now shows 7-bits (B6-B11). The text does not describe B5. Define B5 or correct Figure 9-33	Fix as commented	2017/1/9 9:42
4019 Albert Petrick	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3	3276	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamformee STS for > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B40-B42 in Definition column Change to: "B40-B42 indicates the maximum number for.....HE NDP."	2017/1/9 9:42
4020 Albert Petrick	225	1 B.4.27.2	413	45	E	Y	413.45 B.4.27.2	3447	Numbering / letter (5GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "5GHz" to "5 GHz"	2017/1/9 9:42
4021 Albert Petrick	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	3281	Add clarity and call out bit positions in Table 9-262aa for subfield "NSTS Total For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B44-B45 in Definition column Change to: "B43-B45 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
4022 Albert Petrick	225	1 6.3.7.4.2	12	25	E	Y	12.25 6.3.7.4.2	3295	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
4023 Albert Petrick	225	1 9.3.1.23	45	6	E	Y	45.06 9.3.1.23	3449	Number / letter (2.4GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "2.4GHz" to "2.4 GHz"	2017/1/9 9:42
4024 Albert Petrick	225	1 9.4.2.218.3	85	20	T	Y	85.20 9.4.2.218.3	3285	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B46-B48 in Definition column Change to: "B46-B48 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
4025 Albert Petrick	225	1 27.4.2	158	30	E	Y	158.30 27.4.2	3296	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
4026 Albert Petrick	225	1 28.1.1	211	26	E	Y	211.26 28.1.1	3841	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4027 Albert Petrick	225	1 27.2.1	149	26	E	Y	149.26 27.2.1		Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4028 Albert Petrick	225	1 9.4.2.218.3	85	22	E	Y	85.22 9.4.2.218.3	3509	Missing period at end of sentence in Definition column of Table 9-262aa.	Add period at the end of sentence "HE NDP"	2017/1/9 9:42
4029 Albert Petrick	225	1 9.4.2.218.3	85	26	T	Y	85.26 9.4.2.218.3	3511	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B48-B51 in Definition column Change to: "B49-B51 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
4030 Albert Petrick	225	1 9.4.2.218.2	76	24	E	Y	76.24 9.4.2.218.2	3450	Format error - sentence alignment	Fix paragraph alignment - left justify.	2017/1/9 9:42
4031 Albert Petrick	225	1 27.4.2	158	51	E	Y	158.51 27.4.2	3297	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
4032 Albert Petrick	225	1 28.1.1	211	29	E	Y	211.29 28.1.1	3847	Period missing at end of sentence	Add period at the of sentence after "MIMO)"	2017/1/9 9:42
4033 Albert Petrick	225	1 27.2.1	149	28	E	Y	149.28 27.2.1		Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4034 Albert Petrick	225	1 9.4.2.218.3	81	35	E	Y	81.35 9.4.2.218.3	3453	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield NSTA Total For < 80 MHz is labeled as having 2-bits. There are 3-bits (B37 -B39).	Change Bits "2" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9m-589cl	2017/1/9 9:42

4035 Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3455	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For < 80 MHz" is mark as having 1-bit. There are 3-bits (B46 -B48).	Change Bits "1" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9-589cl	2017/1/9 9:42
4036 Albert Petrick	225	1 9.4.2.218.3	85	28	E	Y	85.28 9.4.2.218.3	3514	Missing period at end of sentence in Definition column of Table 9-262aa.	Fix. Add period at the end of sentence "HE NDP."	2017/1/9 9:42
4037 Albert Petrick	225	1 27.4.4	160	160	E	Y	161.60 27.4.4	3298	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
4038 Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3270	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For > 80 MHz" is labeled as 1-bit. There are 3-bits (B49 -B51).	Change Bits "1" to "3" for subfield "NSTS Total for > 80 MHz" in Figure 9-589cl	2017/1/9 9:42
4039 Albert Petrick	225	1 9.4.2.218.3	85	29	E	Y	85.29 9.4.2.218.3	3516	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
4040 Albert Petrick	225	1 28.1.1	211	32	E	Y	211.32 28.1.1	3854	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4041 Albert Petrick	225	1 27.2.1	149	33	E	Y	149.33 27.2.1		Period missing at end of sentence	Add period at the of sentence after "set"	2017/1/9 9:42
4042 Albert Petrick	225	1 9.4.2.218.3	83	6	T	Y	83.06 9.4.2.218.3	3274	Add clarity. Call out bit positions in Table 9-262aa for subfield "Device Class" corresponding to those bit positions in Figure 9-589cl	In "Definition" column: Add "B12:" at the beginning of the sentence." In the "Encoding" column: Before sentence Add "B12:" "Set to 1 to indicate STA is a Class A device." In the "Encoding" column: Before sentence Add "B12:" Set to 0 to indicate STA is a Class B device. Note: This field is reserved when transmitting STA is an AP STA."	2017/1/9 9:42
4043 Albert Petrick	225	1 9.4.2.218.3	83	13	T	Y	83.13 9.4.2.218.3	3277	Add clarity and call out bit positions in Table 9-262aa for subfield "LDPC Coding In Payload" corresponding to those bit positions in Figure 9-589cl	Change text in "Definition" column to read: "B13: Indicates support of transmission....." Change text in "Encoding" column to read: "B13: Set to 1 to indicate STA... B13: Set to 9 otherwise.. "	2017/1/9 9:42
4044 Albert Petrick	225	1 27.4.4.1	160	45	E	Y	160.45 27.4.4.1	3299	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
4045 Albert Petrick	225	1 9.4.2.218.3	85	24	E	Y	85.24 9.4.2.218.3	3520	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
4046 Albert Petrick	225	1 28.1.1	211	34	E	Y	211.34 28.1.1	3859	Period missing at end of sentence	Add period at the of sentence after "PPDU"	2017/1/9 9:42
4047 Albert Petrick	225	1 9.4.2.218.3	83	16	T	Y	83.16 9.4.2.218.3	3282	Add clarity and call out bit positions in Table 9-262 aa for subfield "HE-LTF And GI For HE PPDUs" corresponding to those bit positions in Figure 9-589cl	Change text in "Encoding column to read: "For B14 and B15: Set to 1 if supported by the STA. Set to 0 otherwise."	2017/1/9 9:42
4048 Albert Petrick	225	1 27.2.1	149	36	E	Y	149.36 27.2.1		Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4049 Albert Petrick	225	1 9.4.2.218.3	85	31	T	Y	85.31 9.4.2.218.3	3522	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For SU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B52 in Definition column Change to: "B52 indicates if the HE beamformee....."	2017/1/9 9:42
4050 Albert Petrick	225	1 9.4.2.218.3	82	15	E	Y	82.15 9.4.2.218.3	3286	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 2.4 GHz.	2017/1/9 9:42
4051 Albert Petrick	225	1			E	Y		3300	multi-TID not capitalized	Make global change in .11ax D1.0: change "multi-TID to Multi-TID"	2017/1/9 9:42
4052 Albert Petrick	225	1 9.4.2.218.3	85	35	T	Y	85.35 9.4.2.218.3	3524	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For MU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B53 in Definition column Change to: "B53 indicates if the HE beamformee....."	2017/1/9 9:42
4053 Albert Petrick	225	1 28.1.1	211	38	E	Y	211.38 28.1.1	3868	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4054 Albert Petrick	225	1 25.5.2.3	167	69	T	Y	167.69 25.5.2.3	3301	"TBD" is a placeholder and not allowed in drafts in WG letter ballots as per IEEE 802.11 WG policies.	Remove TBD	2017/1/9 9:42
4055 Albert Petrick	225	1 9.4.2.218.3	85	37	E	Y	85.37 9.4.2.218.3	3526	In Table 9-262aa missing period at the end of sentence.	Add period after "MU-type feedback."	2017/1/9 9:42
4056 Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3465	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42

4057	Albert Petrick	225	1 27.3.3.4	154	39	T	Y	154.39 27.3.3.4	3302	The "L3 Frag BA Request frame", "L3 Frag BA Response" and "BA Response frame" are not defined and ambiguous. There are no figures, tables, text or timing flow between Requests and Responses.	Define "L3 Frag BA Request frame" and "L3 Frag BA Response", BA Response frames, add figures, tables and describe a procedure for L3 dynamic fragmentation.	2017/1/9 9:42
4058	Albert Petrick	225	1 9.4.2.218.3	85	39	T	Y	85.39 9.4.2.218.3	3528	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (Nr, Nc) = (4, 2) For SU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B54 in Definition column Change to: "B54 indicates if the HE beamformee....."	2017/1/9 9:42
4059	Albert Petrick	225	1 27.2.1	149	49	E	Y	149.49 27.2.1		Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4060	Albert Petrick	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	3303	Text in sentence references table "Table YY-1". Table doesn't exist in .11ax D1.0 or in IEEE 802.11-2016	Fix reference and add table or delete sentence referencing table	2017/1/9 9:42
4061	Albert Petrick	225	1 9.4.2.218.3	85	44	T	Y	85.44 9.4.2.218.3	3530	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (Nr, Nc) = (7,5) For MU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B55 in Definition column Change to: "B55 indicates if the HE beamformee....."	2017/1/9 9:42
4062	Albert Petrick	225	1 28.1.1	211	41	E	Y	211.41 28.1.1	3875	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4063	Albert Petrick	225	1 27.6.2	177	43	T	Y	177.43 27.6.2	3304	Figure 27-3 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing as beamformee from beamformer.	2017/1/9 9:42
4064	Albert Petrick	225	1 9.4.2.218.3	85	50	E	Y	85.50 9.4.2.218.3	3532	In Table 9-262aa, Missing periods and line spacing between sentences.	In the "Definition" column, Add period at the end of sentences e.i., after "feedback." on lines 50, 52, 54, 57, 59 and 61. Add line space carriage return after "feedback on lines 50, 52, 54, 57 and 59. In "Encoding" column, Add line spacing carriage return after "otherwise." on line 55.	2017/1/9 9:42
4065	Albert Petrick	225	1 9.4.2.218.3	82	20	E	Y	82.20 9.4.2.218.3	3468	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
4066	Albert Petrick	225	1 27.6.2	178	6	T	Y	178.06 27.6.2	3305	Figure 27-4 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing, identify the beamformee "1 thru n" and spell out the word "TRIG" in UL TRIG PPDU	2017/1/9 9:42
4067	Albert Petrick	225	1 9.4.2.218.3	86	6	T	Y	86.06 9.4.2.218.3	3534	Add clarity and call out bit position in Table 9-262aa for subfield "HE ER SU Payload" corresponding to those bit positions in Figure 9-589cl.	Add bit B59 in Definition column Change to: "B59: indicates the support of transmission....."	2017/1/9 9:42
4068	Albert Petrick	225	1 27.2.1	149	53	E	Y	149.53 27.2.1		Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4069	Albert Petrick	225	1 28.1.1	211	42	E	Y	211.42 28.1.1	3880	Period missing at end of sentence	Add period at the of sentence after "puncturing"	2017/1/9 9:42
4070	Albert Petrick	225	1 9.4.2.218.3	86	11	T	Y	86.11 9.4.2.218.3	3536	Add clarity and call out bit position in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" corresponding to those bit positions in Figure 9-589cl.	Add bit B60 in Definition column Change to: "B60: indicates the non-AP STA supports....."	2017/1/9 9:42
4071	Albert Petrick	225	1 27.6.2	178	7	T	Y	178.07 27.6.2	3306	"CSI" in Figure 27-4 is not defined or referenced in text	Expand on the term "CSI" and describe this term in the text with relationship with HE beamformee.	2017/1/9 9:42
4072	Albert Petrick	225	1 9.4.2.218.3	82	23	E	Y	82.23 9.4.2.218.3	3471	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
4073	Albert Petrick	225	1		2	T	Y		3287	.11ax D1.0 makes reference to IEEE P802.11REVmc-D8.0, which is essentially IEEE P802.11-2016 (the new rollup baseline standard) and soon to be published in 2017. Once it is published, P802.11REVmc-D8.0 will be removed from the IEEE 802.11 working group members area on the website and will not be available in public domain on the IEEE 802.11 work group document server for public use. All references in .11ax D1.0 to clauses in the baseline standard should be made to IEEE P802.11-2016 and not to IEEE P802.11REVmc-D8.0.	Remove IEEE P802.11REVmc(TM)/D8.0 and replace with IEEE P802.11-2016	2017/1/9 9:42

4074	Albert Petrick	225	1 9.4.2.218.3	86	14	T	Y	86.14 9.4.2.218.3	3538	Add clarity and call out a "Note" reference in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" in the Encoding column.	Add change to read: "Note: This field is reserved for an AP."	2017/1/9 9:42
4075	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3307	Sentence misaligned spacing	Left just "A STA fro which do1 1HEOptionImplemented..... "	2017/1/9 9:42
4076	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3472	Table 9-262aa, "Encoding column" missing period at end of sentence	Fix. Change "Note" to "NOTE" and add colon ":" after "NOTE."	2017/1/9 9:42
4077	Albert Petrick	225	1			G	Y		3288	The title of the column headers in ALL of the tables need to be formatted; 1) center text in title. 2) lock 1st row of table to continue on next page.	Fix and format ALL tables headers (1st row) and enable 1st row to roll-over on next page when tables don't fit on current page.	2017/1/9 9:42
4078	Albert Petrick	225	1 27.2.1	149	61	E	Y	149.61 27.2.1		Period missing at end of sentence	Add period at the of sentence after "Set"	2017/1/9 9:42
4079	Albert Petrick	225	1 9.4.2.218.3	86	16	T	Y	86.16 9.4.2.218.3	3540	Add clarity and call out bit position in Table 9-262aa for subfield "PPE Threshold Present" corresponding to those bit position in Figure 9-589cl.	Add bit B61 in Definition column Change to: "B61: indicates whether or no the PPE....."	2017/1/9 9:42
4080	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3308	Period missing at end of sentence	Add period at the end of sentence.	2017/1/9 9:42
4081	Albert Petrick	225	1 9.4.2.218.3	82	44	T	Y	82.44 9.4.2.218.3	3474	Table 9-262aa, grammar issue	Change "of" to "on"	2017/1/9 9:42
4082	Albert Petrick	225	1 28.1.1	211	47	E	Y	211.47 28.1.1	3888	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4083	Albert Petrick	225	1			G	Y		3289	Throughout .11ax D1.0 there are references where some bits have hyphens and others do not e.g., 1 bit, and 1-bit. The text, Tables and Figures should be consistent using "hyphens" as used in IEEE 802.11-2016.	Fix. Include hyphens in text, Tables and Figures similar to the format utilized in baseline IEEE 802.11-2016	2017/1/9 9:42
4084	Albert Petrick	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3	3542	Add clarity and call out bit position in Table 9-262aa for subfield "SRP-based SR Support" corresponding to those bit position in Figure 9-589cl.	Add bit B62 in Definition column Change to: "B62: indicates that the STA supports SRP-based....."	2017/1/9 9:42
4085	Albert Petrick	225	1 9.4.2.218.3	82	47	E	Y	82.47 9.4.2.218.3	3476	Table 9-262aa, "Definition column" missing period at end of sentence and line between paragraphs	Fix. In the Definition column Add period "." after "punctured." and carriage return before B9, B10, and B11 on lines 47, 51, and 56. On line 60 add period after "is present."	2017/1/9 9:42
4086	Albert Petrick	225	1			G	Y		3290	Throughout .11ax D1.0 cross-reference links in text to tables, figures, equations, clauses and sub-clauses either broken, and non-existent.	Fix cross-reference links in text, tables, figures, equations and external links	2017/1/9 9:42
4087	Albert Petrick	225	1 9.4.2.218.3	86	19	E	Y	86.19 9.4.2.218.3	3544	In Table 9-262aa, missing period after sentence.	Add period "." at the end of sentence after "operation."	2017/1/9 9:42
4088	Albert Petrick	225	1 9.4.2.218.3	93	25	E	Y	93.25 9.4.2.218.3	3479	Table 9-262aa, missing period at the end of sentence	Fix. In the "Definition column", Add period "." after the "duration" on lines 25 and 29.	2017/1/9 9:42
4089	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3309	Sentence misaligned spacing	left justify "issue a PHY-CCA.indication(BUSY, {secondary40}),"	2017/1/9 9:42
4090	Albert Petrick	225	1 27.2.1	150	2	E	Y	150.02 27.2.1		Period missing at end of sentence	Add period at the of sentence after "Set",	2017/1/9 9:42
4091	Albert Petrick	225	1			G	Y		3291	Throughout .11ax D1.0 the alignment of the terms in equations and spacing between paragraph text and equations need to be centered on the pages.	Fix spacing of terms in equations and space of text between equations.	2017/1/9 9:42
4092	Albert Petrick	225	1 9.4.2.218.3	86	21	T	Y	86.21 9.4.2.218.3	3546	Add clarity and call out bit position in Table 9-262aa for subfield "Power Boost Factor +Y Support" corresponding to those bit position in Figure 9-589cl.	Add bit B63 in Definition column Change to: "B63: indicates that the STA supports....."	2017/1/9 9:42
4093	Albert Petrick	225	1 28.1.1	211	50	E	Y	211.50 28.1.1	3895	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4094	Albert Petrick	225	1 9.4.2.218.3	83	34	E	Y	83.34 9.4.2.218.3	3481	Table 9-262aa, missing period and colon in sentence.	Fix. In the "Definition column, Add period "." after the "stream" on lines 35 and 39. In Encoding column Add ":" after B18 on line 34 and B19 on line 37.	2017/1/9 9:42
4095	Albert Petrick	225	1 3.4	7	13	E	Y	7.13 3.4	3292	hyphen error – hyphen between the words frequency and division "Orthogonal frequency-division multiple access" The use of hyphens should be consistent with what is used in IEEE 802.11-2016.	Remove hyphen after "frequency"	2017/1/9 9:42
4096	Albert Petrick	225	1 4.3.14a	9	33	T	Y	9.33 4.3.14a	3293	"RU" not defined	Add definition for "RU" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42

4097	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3310	Sentence misaligned spacing	left justify "PHYCCA. Indication(BUSY, {primary}).....and"	2017/1/9 9:42
4098	Albert Petrick	225	1 27.2.2	150	43	E	Y	150.43 27.2.2		Period missing at end of sentence	Add period at the of sentence after "field"	2017/1/9 9:42
4099	Albert Petrick	225	1 9.4.2.218.3	86	22	E	Y	86.22 9.4.2.218.3	3548	In Table 9-262aa, missing period after sentence.	Add period at the end of sentence after "range [0.5, 2]."	2017/1/9 9:42
4100	Albert Petrick	225	1 6.3.4.2.2	11		E	Y	11.00 6.3.4.2.2	3294	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
4101	Albert Petrick	225	1 28.1.1	211	62	E	Y	211.62 28.1.1	3268	Period missing at end of sentence	Add period at the of sentence after "least 4"	2017/1/9 9:42
4102	Albert Petrick	225	1 9.4.2.218.3	83	40	E	Y	83.40 9.4.2.218.3	3484	Table 9-262aa, missing period and colon in sentence.	In the Definition column, Add colon ":" after B20 and B21. Add period after "procedure." on lines 41 and 43. In Encoding column Add colon after B20 on line 40 and B21 on line 43. Add extra line space between lines 41 and 42.	2017/1/9 9:42
4103	Albert Petrick	225	1 9.4.2.218.3	86	24	T	Y	86.24 9.4.2.218.3	3550	Add clarity and call out bit position in Table 9-262aa for subfield "4x HE-LTF And 0.8 us GI Support For HE PPDUs" corresponding to those bit position in Figure 9-589cl.	Add bit B64 in Definition column Change to: "B64: indicates for the reception of 4x LTF....."	2017/1/9 9:42
4104	Albert Petrick	225	1 9.4.2.218.3	83	58	E	Y	83.58 9.4.2.218.3	3486	Table 9-262aa, missing period at the end of sentence.	Add period after "MU-MIMO" on line 58.	2017/1/9 9:42
4105	Albert Petrick	225	1 28.3.17.6.4	349	27	E	Y	349.27 28.3.17.6.4	3311	Sentence misaligned spacing	left justify "present and on of the .....or"	2017/1/9 9:42
4106	Albert Petrick	225	1 9.4.2.218.3	86	28	T	Y	86.28 9.4.2.218.3	3552	Missing "Reserve" Subfield, and text for Definition and Encoding in Table 9-262aa. The Reserve subfield should correspond to the 7 bit positions B65 -B71 in Figure 9-589Cl.	At the end of Table 9-262-aa. Add "Reserved" in Subfield column. Add text (see underlined text) "B65 - B71 (7-bits) are reserved." Encoding column leave blank.	2017/1/9 9:42
4107	Albert Petrick	225	1 27.2.2	150	54	E	Y	150.54 27.2.2		Period missing at end of sentence	Add period at the of sentence after "detection)"	2017/1/9 9:42
4108	Albert Petrick	225	1 9.4.2.218.3	82	11	T	Y	82.11 9.4.2.218.3	3488	Add clarity and call out bit position in Table 9-262aa for subfield "Dual Band Support" corresponding to those bit positions in Figure 9-589cl	Add bit B0 in Definition column Change to: "B0 indicates support of both...."	2017/1/9 9:42
4109	Albert Petrick	225	1 6.3.7.4.2	12	25	E	Y	12.25 6.3.7.4.2	3295	primitive parameter misaligned	Fix alignment	2017/1/9 9:42
4110	Albert Petrick	225	1 28.1.1	212	2	E	Y	212.02 28.1.1	3280	Period missing at end of sentence	Add period at the of sentence after "applicable"	2017/1/9 9:42
4111	Albert Petrick	225	1 9.4.2.218.3	86	31	T	Y	86.31 9.4.2.218.3	3554	Class A STAs are declared "high capability devices" and class B STAs as "low capability devices" This is the only reference in .11axD1.0 to these terms. Class A and class B STAs are defined in sub-clause 28.3.14 (Transmit requirements for an HE trigger-based PPDU). Transmit power accuracy and RSSI measurement accuracy are discussed in detail e.g., Table 28-40. To eliminate ambiguities, "low and high capability devices" should be defined and referenced back to clause 28.3.14.	Add definition for "low and high capability" devices in clause 28.3.14, and add text reference back to clause 28.3.14. Add underline text (without the underline) to read: "Class A STAs are high capability devices and class B STAs are low capability devices as described in 28.3.14 (Transmit requirements for an HE trigger-based PPDU).	2017/1/9 9:42
4112	Albert Petrick	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3	3490	Add clarity and call out bit position in Table 9-262aa for subfield "UL HE MU PPDU Payload Support" corresponding to those bit positions in Figure 9-589cl	Add bit B30 in Definition column Change to: "B30 indicates that the STA supports the reception of....."	2017/1/9 9:42
4113	Albert Petrick	225	1 27.4.2	158	30	E	Y	158.30 27.4.2	3296	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
4114	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2	3556	The "Value" column in Table 18-1 (TXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 17-1 in subclause 17.2.2.1 of .11axD1.0, or Table 18-1, 18-3 in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.	2017/1/9 9:42
4115	Albert Petrick	225	1 28.3.17.6.4	349	46	E	Y	349.46 28.3.17.6.4	3312	Sentence misaligned spacing	Change "BUSY, {secondary40}" to "BUSY,{secondary40})"	2017/1/9 9:42
4116	Albert Petrick	225	1 9.4.2.218.3	84	31	T	Y	84.31 9.4.2.218.3	3492	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B31 in Definition column Change to: "B31 indicates support for operation as an SU beamformer."	2017/1/9 9:42

4117	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2	3558	The "Value" column in Table 18-3 (RXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 18-3 in subclause 17.2.2.1 of .11ax/D1.0, or Tables 18-1, 18-3, in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.		2017/1/9 9:42
4118	Albert Petrick	225	1 27.2.2	150	56	E	Y	150.56 27.2.2		Period missing at end of sentence	Add period at the of sentence after "value"		2017/1/9 9:42
4119	Albert Petrick	225	1 9.4.2.218.3	84	36	T	Y	84.36 9.4.2.218.3	3494	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformee" corresponding to those bit positions in Figure 9-589cl	Add bit B32 in Definition column Change to: "B32 indicates support for operation as an SU beamformee."		2017/1/9 9:42
4120	Albert Petrick	225	1 28.1.1	212	2	E	Y	212.02 28.1.1	3915	Period missing at end of sentence	Add period at the of sentence after "receive)"		2017/1/9 9:42
4121	Albert Petrick	225	1 27.4.2	158	51	E	Y	158.51 27.4.2	3297	multi-TID not capitalized	change "multi-TID" to "Multi-TID"		2017/1/9 9:42
4122	Albert Petrick	225	1 28.3.18.4.4	355	38	T	Y	355.38 28.3.18.4.4	3560	The EVM for MCS7 (-27 dB) is based on the maximum tx power of MCS7. Clarification is needed why it is being used for BPSK...64-QAM as shown in Table 28-45. The EVM value was selected for UL OFDMA PPDUs. This should be noted or expanded in the text in clause 28.3.18.4.4	Add the following underlined text (without the underline) in the "Note" on line 40 in Table 28-45 as follows: "which EVM is test is conducted. "EVM of -27 dB, is used when the Tx Power is less than the maximum power of MCS7, and assists the AP in managing RUs for UL OFDMA PPDU transmissions."		2017/1/9 9:42
4123	Albert Petrick	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	3496	Add clarity and call out bit position in Table 9-262aa for subfield "MU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B33 in Definition column Change to: "B33 indicates support for operation as an MU beamformer."		2017/1/9 9:42
4124	Albert Petrick	225	1 28.3.17.6.4	349	21	E	Y	349.21 28.3.17.6.4	3313	Sentence misaligned spacing	Change "max(-72 dBm, OBSS_PD)' to " "max (-72 dBm, OBSS_PD)"		2017/1/9 9:42
4125	Albert Petrick	225	1 9.4.2.218.2	76	47	E	Y	76.47 9.4.2.218.2	3562	In Figure 9-589ck - (HE MAC PHY Capabilities Information field format) subfield "Group Addressed Multi-STA BlockAck In DL MU Support" is mark as having 4-bits. This is not correct. There is 1-bit assigned (B24).	Change Bits "4" to "1" for subfield "Group Addressed Multi-STA BlockAck In DL MU Support" in Figure 9-589ck.		2017/1/9 9:42
4126	Albert Petrick	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3	3267	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamforemee STS For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B34-B36 in Definition column Change to: "B34-B36 indicates the maximum number of space-time streams the STA can receive in an HE NDP."		2017/1/9 9:42
4127	Albert Petrick	225	1 28.3.18.2	353	62	T	Y	353.62 28.3.18.2	3314	Spectral flatness procedure needs more clarity	Delete the sentence: "Demodulate the HE PPDUs .....procedure:" and place with the following sentence. " The HE PPDUs shall be demodulated using the following (or equivalent) procedure:"		2017/1/9 9:42
4128	Albert Petrick	225	1 27.2.2	150	59	E	Y	150.59 27.2.2		Period missing at end of sentence	Add period at the of sentence after "holder"		2017/1/9 9:42
4129	Albert Petrick	225	1 28.1.1	212	9	E	Y	212.09 28.1.1	3923	Period missing at end of sentence	Add period at the of sentence after "bandwidth"		2017/1/9 9:42
4130	Albert Petrick	225	1 28.3.17.3	345	64	E	Y	345.64 28.3.17.3	3564	Missing Table number reference in clause 28.3.17.3	Change "Table xx-a" to "Table 28-41"		2017/1/9 9:42
4131	Albert Petrick	225	1 27.4.4	160	160	E	Y	161.60 27.4.4	3298	multi-TID not capitalized	change "multi-TID" to "Multi-TID"		2017/1/9 9:42
4132	Albert Petrick	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3	3272	Add clarity and call out bit positions in Table 9-262aa for subfield "NTST Total For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B37-B39 in Definition column Change to: "B37-B39 indicates the maximum value for.....partial bandwidth."		2017/1/9 9:42
4133	Albert Petrick	225	1 28.4.3	372	48	T	Y	372.48 28.4.3	3315	Table 28-46 - HE PHY characteristics lists the aPSDUMaxLength set to 6,500,631 octets. It's not clear in the table or text what assumptions were made and how the length is calculated.	Add a NOTE at the bottom of Table 28-46 stating the assumptions and the calculation (Eq.) for determining the PSDU maximum. E.g., 1024-QAM 5/6 rate coding rate, LDPC, 160 MHz channel bandwidth, 8 spatial streams, LDPC.		2017/1/9 9:42

4134	Albert Petrick	225	1 27.7.4	186	8	T	Y	186.08 27.7.4	3240	TWT scheduling STA and TWT scheduled STA are described. The text states "Either STA can tear down an established negotiation...." It's not clear if "Either STA" means the scheduling STA and the scheduled STA.	Rewrite sentence for clarity and expand on "Either STA"	2017/1/9 9:42
4135	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3567	Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
4136	Albert Petrick	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3	3276	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamformee STS for > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B40-B42 in Definition column Change to: "B40-B42 indicates the maximum number for.....HE NDP."	2017/1/9 9:42
4137	Albert Petrick	225	1 28.3.10.7.2	277	58	E	N	277.58 28.3.10.7.2	3316	LDPC misspelled in Table 28-17	Change "LPDC" to "LDPC" in Bandwidth column of Table 28-17	2017/1/9 9:42
4138	Albert Petrick	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	3281	Add clarity and call out bit positions in Table 9-262aa for subfield "NSTS Total For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B44-B45 in Definition column Change to: "B43-B45 indicates the maximum value for.....partial bandwidth."	2017/1/9 9:42
4139	Albert Petrick	225	1 28.1.1	212	14	E	Y	212.14 28.1.1	3929	Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42
4140	Albert Petrick	225	1 28.3.6.4	250	43	T	Y	250.43 28.3.6.4	3317	Four extra tones insertion; mapping not correct for Construction of L-SIG.	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
4141	Albert Petrick	225	1 27.4.4.1	160	45	E	Y	160.45 27.4.4.1	3299	multi-TID not capitalized	change "multi-TID" to "Multi-TID"	2017/1/9 9:42
4142	Albert Petrick	225	1 9.4.2.218.3	85	20	T	Y	85.20 9.4.2.218.3	3285	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B46-B48 in Definition column Change to: "B46-B48 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
4143	Albert Petrick	225	1 27.7.4	187	23	E	Y	187.23 27.7.4	3248	Period missing at end of sentence	Add period at the of sentence after "TWT"	2017/1/9 9:42
4144	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3572	Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
4145	Albert Petrick	225	1 28.3.6.5	251	11	T	Y	251.11 28.3.6.5	3318	Four extra tones insertion; mapping not correct for Construction of RL-SIG	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
4146	Albert Petrick	225	1 9.4.2.218.3	85	22	E	Y	85.22 9.4.2.218.3	3509	Missing period at end of sentence in Definition column of Table 9-262aa.	Add period at the end of sentence "HE NDP"	2017/1/9 9:42
4147	Albert Petrick	225	1 28.3.18.4.4	357	11	E	Y	357.11 28.3.18.4.4	3575	Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42
4148	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3319	"Doppler subfield indicates a high doppler mode of transmission." Definition, clarification and technical details are not in .11axD1.0 with respect to the range of doppler spread and operating conditions triggering "high doppler mode". In Table 9-262aa pg. 83 "doppler procedure" defines 2-bits and references for "doppler" and makes reference to STAs using a "Doppler Procedure" for HE PPDUs transmissions. Critical technical details on the doppler procedure are lacking in .11axD1.0.	Either remove all references to Doppler in .11axD1.0 (text and in Table 9-262aa) including STA doppler support or add detailed technical content on Doppler Procedure for HE PPDU transmissions in support of clause of 9.3.1.23 and Table 9-262aa.	2017/1/9 9:42
4149	Albert Petrick	225	1			E	Y		3300	multi-TID not capitalized	Make global change in .11ax D1.0: change "multi-TID to Multi-TID"	2017/1/9 9:42
4150	Albert Petrick	225	1 28.1.1	212	17	E	Y	212.17 28.1.1	3936	Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
4151	Albert Petrick	225	1 9.4.2.218.3	85	26	T	Y	85.26 9.4.2.218.3	3511	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B48-B51 in Definition column Change to: "B49-B51 represents the beamformer's capability.....for an HE NDP."	2017/1/9 9:42
4152	Albert Petrick	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3	3320	Table 9-262aa defines HE-PHY Capabilities Information field. Doppler subfield makes reference to Doppler Procedure. There is no text on "Doppler procedure" procedure needs to be defined.	Add technical detail content or remove "Doppler subfield from Table 262aa	2017/1/9 9:42
4153	Albert Petrick	225	1 25.5.2.3	167	69	T	Y	167.69 25.5.2.3	3301	"TBD" is a placeholder and not allowed in drafts in WG letter ballots as per IEEE 802.11 WG policies.	Remove TBD	2017/1/9 9:42

4154	Albert Petrick	225	1 27.7.4	187	26	E	Y	187.26 27.7.4	3257	Period missing at end of sentence	Add period at the of sentence after "is 1"	2017/1/9 9:42
4155	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3321	Doppler is not defined in clause 3.4 of IEEE 802.11-2016 (802.11 REVmc D8.0)	Add "Doppler" definition in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4156	Albert Petrick	225	1 28.3.18.4.4	357	14	E	Y	357.14 28.3.18.4.4	3580	Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42
4157	Albert Petrick	225	1 27.3.3.4	154	39	T	Y	154.39 27.3.3.4	3302	The "L3 Frag BA Request frame", "L3 Frag BA Response" and "BA Response frame" are not defined and ambiguous. There are no figures, tables, text or timing flow between Requests and Responses.	Define "L3 Frag BA Request frame" and "L3 Frag BA Response", BA Response frames, add figures, tables and describe a procedure for L3 dynamic fragmentation.	2017/1/9 9:42
4158	Albert Petrick	225	1 27.3.3.1	153	19	E	Y	153.19 27.3.3.1	3322	Extra period	Remove extra period from the end of the sentence.	2017/1/9 9:42
4159	Albert Petrick	225	1 9.4.2.218.3	85	28	E	Y	85.28 9.4.2.218.3	3514	Missing period at end of sentence in Definition column of Table 9-262aa.	Fix. Add period at the end of sentence "HE NDP."	2017/1/9 9:42
4160	Albert Petrick	225	1 28.1.1	212	19	E	Y	212.19 28.1.1	3943	Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
4161	Albert Petrick	225	1 28.3.11.13	331	48	E	Y	331.48 28.3.11.13	3583	Misspelling in PPDU BW in Table 28-31 Pilot indices for 52-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-31	2017/1/9 9:42
4162	Albert Petrick	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	3303	Text in sentence references table "Table YY-1". Table doesn't exist in .11ax D1.0 or in IEEE 802.11-2016	Fix reference and add table or delete sentence referencing table	2017/1/9 9:42
4163	Albert Petrick	225	1 27.3.4.1	155	44	E	Y	155.44 27.3.4.1	3323	Paragraph misaligned	left justify paragraph	2017/1/9 9:42
4164	Albert Petrick	225	1 9.4.2.218.3	85	29	E	Y	85.29 9.4.2.218.3	3516	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
4165	Albert Petrick	225	1 27.7.4	187	31	E	Y	187.31 27.7.4	3266	Period missing at end of sentence	Add period at the of sentence after "TWT"	2017/1/9 9:42
4166	Albert Petrick	225	1 28.3.11.13	332	30	E	Y	332.30 28.3.11.13	3585	Misspelling in PPDU BW in Table 28-33 Pilot indices for 106-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-33	2017/1/9 9:42
4167	Albert Petrick	225	1 27.6.2	177	43	T	Y	177.43 27.6.2	3304	Figure 27-3 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing as beamformee from beamformer.	2017/1/9 9:42
4168	Albert Petrick	225	1 27.5.2.5	171	43	E	Y	171.43 27.5.2.5	3324	Extra parenthesis	Remove extra parenthesis at the end of sentence.	2017/1/9 9:42
4169	Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13	3589	Misspelling in PPDU BW in Table 28-34 Pilot indices for 242-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-34	2017/1/9 9:42
4170	Albert Petrick	225	1 27.6.2	178	6	T	Y	178.06 27.6.2	3305	Figure 27-4 Example of sounding protocol not correct.	Re-draw diagram. Fix sounding protocol diagram to illustrate alignment of SIFS timing, identify the beamformee "1 thru n" and spell out the word "TRIG" in UL TRIG PPDU	2017/1/9 9:42
4171	Albert Petrick	225	1 28.1.1	212	22	E	Y	212.22 28.1.1	3950	Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
4172	Albert Petrick	225	1 27.5.2.5	171	40	T	Y	171.40 27.5.2.5	3325	"ACs (#2190, 2191)" are remaining CID placeholders and not part of draft .11ax D1.0	Remove references to CIDs #2190, and 2191	2017/1/9 9:42
4173	Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13	3591	Misspelling in PPDU BW in Table 28-36 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-36	2017/1/9 9:42
4174	Albert Petrick	225	1 27.6.2	178	7	T	Y	178.07 27.6.2	3306	"CSI" in Figure 27-4 is not defined or referenced in text	Expand on the term "CSI" and describe this term in the text with relationship with HE beamformee.	2017/1/9 9:42
4175	Albert Petrick	225	1 9.4.2.218.3	85	24	E	Y	85.24 9.4.2.218.3	3520	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
4176	Albert Petrick	225	1 27.7.4	187	35	E	Y	187.35 27.7.4		Period missing at end of sentence	Add period at the of sentence after "is 0"	2017/1/9 9:42
4177	Albert Petrick	225	1 27.5.2.5	171	41	E	Y	171.41 27.5.2.5	3326	Table number missing for Table 9-XX (Delta TID subfield encoding).	Add Table number 9-18c	2017/1/9 9:42
4178	Albert Petrick	225	1 28.3.11.13	334	43	E	Y	334.43 28.3.11.13	3592	Misspelling in PPDU BW in Table 28-37 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-37	2017/1/9 9:42
4179	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3307	Sentence misaligned spacing	Left just "A STA fro which do11HEOptionImplemented....."	2017/1/9 9:42
4180	Albert Petrick	225	1 9.4.2.218.3	85	31	T	Y	85.31 9.4.2.218.3	3522	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For SU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B52 in Definition column Change to: "B52 indicates if the HE beamformee....."	2017/1/9 9:42
4181	Albert Petrick	225	1 9.3.1.22	42	7	E	Y	42.07 9.3.1.22	3327	Figure 9-52d Common Info field B20-B21 has a spelling error for "GIAnd LTF Type"	Change "GIAnd" to "GI And"	2017/1/9 9:42
4182	Albert Petrick	225	1 28.3.12	339	3	E	Y	339.03 28.3.12	3594	Grammar error in text referencing Table 28-38 in clause 28.3.12	Add underlined text (without the underline) to read: "The 3-bit Packet Extension field in HE-SIG-A is defined as shown in Table 28-38.....HE-SIG-A)."	2017/1/9 9:42
4183	Albert Petrick	225	1 28.1.1	212	27	E	Y	212.27 28.1.1	3956	Period missing at end of sentence	Add period at the of sentence after "applicable"	2017/1/9 9:42

4184	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3308	Period missing at end of sentence	Add period at the end of sentence.	2017/1/9 9:42
4185	Albert Petrick	225	1 9.4.2.218.3	85	35	T	Y	85.35 9.4.2.218.3	3524	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For MU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B53 in Definition column Change to: "B53 indicates if the HE beamformee....."	2017/1/9 9:42
4186	Albert Petrick	225	1 28.3.11.1	314	36	E	Y	314.36 28.3.11.1	3596	Spelling error "non STBC" in several clauses in .11axD1.0. Not consistent with IEEE 802.11-2016.	Global change text "non STBC" to "non-STBC" (add hyphen after non) throughout .11axD1.0, in text, Figures, Tables and subclause headers.	2017/1/9 9:42
4187	Albert Petrick	225	1 27.7.4	187	37	E	Y	187.37 27.7.4		Period missing at end of sentence	Add period at the of sentence after "is 1"	2017/1/9 9:42
4188	Albert Petrick	225	1 9.4.2.218.3	85	37	E	Y	85.37 9.4.2.218.3	3526	In Table 9-262aa missing period at the end of sentence.	Add period after "MU-type feedback."	2017/1/9 9:42
4189	Albert Petrick	225	1 28.3.10.7.2	281		E	Y	281.00 28.3.10.7.2	3598	Missing period in Table 28-18	Add period. Change "is punctured" to "is punctured."	2017/1/9 9:42
4190	Albert Petrick	225	1 9.4.2.218.1	76	2	E	Y	76.02 9.4.2.218.1	3328	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
4191	Albert Petrick	225	1 9.4.2.218.3	85	39	T	Y	85.39 9.4.2.218.3	3528	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (ψ, ñΩ) = {4, 2} For SU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B54 in Definition column Change to: "B54 indicates if the HE beamformee....."	2017/1/9 9:42
4192	Albert Petrick	225	1 28.1.1	212	35	E	Y	212.35 28.1.1	3962	Period missing at end of sentence	Add period at the of sentence after "least 4"	2017/1/9 9:42
4193	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3309	Sentence misaligned spacing	left justify "issue a PHY-CCA.indication(BUSY, {secondary40}),."	2017/1/9 9:42
4194	Albert Petrick	225	1 28.3.10.7.2	276	44	T	Y	276.44 28.3.10.7.2	3600	Table 28-17 referencing B11-B14 Spatial Reuse suggests the need for more development. This is a place holder e.g., TBD.	Delete note in Table 28-17: NOTE: this part needs further development.	2017/1/9 9:42
4195	Albert Petrick	225	1 9.4.2.218.3	85	44	T	Y	85.44 9.4.2.218.3	3530	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (ψ, ñΩ) = {7,5} For MU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B55 in Definition column Change to: "B55 indicates if the HE beamformee....."	2017/1/9 9:42
4196	Albert Petrick	225	1 27.7.4	187	43	E	Y	187.43 27.7.4		Period missing at end of sentence	Add period at the of sentence after "session"	2017/1/9 9:42
4197	Albert Petrick	225	1 9.4.2.218.3	85	50	E	Y	85.50 9.4.2.218.3	3532	In Table 9-262aa, Missing periods and line spacing between sentences.	In the "Definition" column, Add period at the end of sentences e.i., after "feedback." on lines 50, 52, 54, 57, 59 and 61. Add line space carriage return after "feedback on lines 50, 52, 54, 57 and 59. In "Encoding" column, Add line spacing carriage return after "otherwise." on line 55.	2017/1/9 9:42
4198	Albert Petrick	225	1 9.4.2.218.5	89	38	E	Y	89.38 9.4.2.218.5	3329	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
4199	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3310	Sentence misaligned spacing	left justify "PHYCCA. Indication(BUSY, {primary}),.....and"	2017/1/9 9:42
4200	Albert Petrick	225	1 9.4.2.218.3	86	6	T	Y	86.06 9.4.2.218.3	3534	Add clarity and call out bit position in Table 9-262aa for subfield "HE ER SU Payload" corresponding to those bit positions in Figure 9-589cl.	Add bit B59 in Definition column Change to: "B59: indicates the support of transmission....."	2017/1/9 9:42
4201	Albert Petrick	225	1 28.1.1	212	39	E	Y	212.39 28.1.1	3970	Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42
4202	Albert Petrick	225	1 9.4.2.218.5	89	13	E	Y	89.13 9.4.2.218.5	3330	Bit positions B0 - Bn not labeled on Figure 9-589cp--PPE Thresholds Info field format	Update Figure 9-589cp with Bit positions B0-Bn for groups of 3 bits per PPET16 and PPET8 subfields.	2017/1/9 9:42
4203	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3604	Period missing at end of sentence	Add period at the end of the sentence after "preamble".	2017/1/9 9:42
4204	Albert Petrick	225	1 9.4.2.218.3	86	11	T	Y	86.11 9.4.2.218.3	3536	Add clarity and call out bit position in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" corresponding to those bit positions in Figure 9-589cl.	Add bit B60 in Definition column Change to: "B60: indicates the non-AP STA supports....."	2017/1/9 9:42
4205	Albert Petrick	225	1 27.8.3	189	30	E	Y	189.30 27.8.3		Period missing at end of sentence	Add period at the of sentence after "frames"	2017/1/9 9:42

4206	Albert Petrick	225	1 28.3.14.3	342	45	T	Y	342.45 28.3.14.3	3606	In clause 28.3.14.3 transmit power requirements and RSSI measurement accuracy requirements are defined for signal level ranges in dBm operating in the 2.4 GHz and 5GHz bands. The requirements are defined for nominal (room) temperature conditions. Specifying transmit power measurements and RSSI accuracy measurements over temperature is implementation dependent and could be regulatory dependent. Specifying a specific operation temperature drives an implementation and is out-of-scope of the standard.	Delete sentence: "The requirements are for nominal (room) temperature conditions."	2017/1/9 9:42
4207	Albert Petrick	225	1 9.4.2.218.3	86	14	T	Y	86.14 9.4.2.218.3	3538	Add clarity and call out a "Note" reference in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" in the Encoding column.	Add change to read: "Note: This field is reserved for an AP."	2017/1/9 9:42
4208	Albert Petrick	225	1 28.3.14.3	342	46	T	Y	342.46 28.3.14.3	3609	In clause 28.3.14.3 the RSSI is measured during the "PHY legacy preamble". The RSSI_LEGACY is defined, but the PHY legacy preamble is not. It's not define or referenced in the IEEE 802.11-2016 baseline. This should be defined and referenced back to the IEEE 802.11-2016 baseline standard.	Add definition for PHY legacy preamble in clause 3.4 Definitions, acronyms, and abbreviations with reference back to IEEE 802.11-2016 figures, text or subclause	2017/1/9 9:42
4209	Albert Petrick	225	1 28.3.17.6.4	349	27	E	Y	349.27 28.3.17.6.4	3311	Sentence misaligned spacing	left justify "present and on of the .....or"	2017/1/9 9:42
4210	Albert Petrick	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1	3331	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
4211	Albert Petrick	225	1 28.1.1	212	43	E	Y	212.43 28.1.1	3976	Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42
4212	Albert Petrick	225	1 9.4.2.218.3	86	16	T	Y	86.16 9.4.2.218.3	3540	Add clarity and call out bit position in Table 9-262aa for subfield "PPE Threshold Present" corresponding to those bit position in Figure 9-589cl.	Add bit B61 in Definition column Change to: "B61: indicates whether or no the PPE....."	2017/1/9 9:42
4213	Albert Petrick	225	1 28.3.18.2	354	46	E	Y	354.46 28.3.18.2	3612	Extra digit in Table 28-44	Change "+3441" to "+344"	2017/1/9 9:42
4214	Albert Petrick	225	1 28.3.3.2	230	1	E	Y	230.01 28.3.3.2	3979	Missing hyphen	Add hyphen " - " after "484"	2017/1/9 9:42
4215	Albert Petrick	225	1 27.8.3	189	37	E	Y	189.37 27.8.3		Period missing at end of sentence	Add period at the of sentence after "field"	2017/1/9 9:42
4216	Albert Petrick	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3	3542	Add clarity and call out bit position in Table 9-262aa for subfield "SRP-based SR Support" corresponding to those bit position in Figure 9-589cl.	Add bit B62 in Definition column Change to: "B62: indicates that the STA supports SRP-based....."	2017/1/9 9:42
4217	Albert Petrick	225	1 28.3.14.3	342	12	E	Y	342.12 28.3.14.3	3615	Spelling error with MCS 7	Change "MCS 7" to "MCS7"	2017/1/9 9:42
4218	Albert Petrick	225	1 28.3.17.6.4	349	46	E	Y	349.46 28.3.17.6.4	3312	Sentence misaligned spacing	Change "BUSY.{secondary40}{" to "BUSY.{secondary40}}"	2017/1/9 9:42
4219	Albert Petrick	225	1 9.4.2.218.3	86	19	E	Y	86.19 9.4.2.218.3	3544	In Table 9-262aa, missing period after sentence.	Add period "." at the end of sentence after "operation."	2017/1/9 9:42
4220	Albert Petrick	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	3332	Extra period	Remove extra period at the end of sentence after the word "context"	2017/1/9 9:42
4221	Albert Petrick	225	1 28.3.14.3	342	10	E	Y	342.10 28.3.14.3	3617	Spelling error with MCS 0	Change "MCS 0" to "MCS0"	2017/1/9 9:42
4222	Albert Petrick	225	1 9.4.2.218.3	86	21	T	Y	86.21 9.4.2.218.3	3546	Add clarity and call out bit position in Table 9-262aa for subfield "Power Boost Factor ≠1 Support" corresponding to those bit position in Figure 9-589cl.	Add bit B63 in Definition column Change to: "B63: indicates that the STA supports....."	2017/1/9 9:42
4223	Albert Petrick	225	1 28.3.14.3	342	36	E	Y	342.36 28.3.14.3	3619	In Table 28-40 in the Case A column, there is a hyphen character.	Remove hyphen "-" character and leave cell blank	2017/1/9 9:42
4224	Albert Petrick	225	1 28.3.10.5	212	49	E	Y	212.49 28.3.10.5	3986	Period missing at end of sentence	Add period at the of sentence after "false"	2017/1/9 9:42
4225	Albert Petrick	225	1 27.8.3	189	46	E	Y	189.46 27.8.3		Period missing at end of sentence	Add period at the of sentence after "field"	2017/1/9 9:42
4226	Albert Petrick	225	1 28.3.17.6.4	349	21	E	Y	349.21 28.3.17.6.4	3313	Sentence misaligned spacing	Change "max(-72 dBm, OBSS_PD)" to " "max (-72 dBm, OBSS_PD)"	2017/1/9 9:42
4227	Albert Petrick	225	1 28.3.16	344	45	E	Y	344.45 28.3.16	3622	In Figure 28-36 (HE NDP PPDU format) the PE field is the Packet Extension field. The text should reference this field.	Change "Packet Extension" to "Packet Extension (PE)"	2017/1/9 9:42
4228	Albert Petrick	225	1 28.3.10.7.2	275	21	E	Y	275.21 28.3.10.7.2	3991	Period missing in Table 28-16	Add period after "1"	2017/1/9 9:42
4229	Albert Petrick	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	3333	Extra period	Remove extra period at the end of sentence after the word "allocation)"	2017/1/9 9:42

4230	Albert Petrick	225	1 28.3.18.2	353	62	T	Y	353.62 28.3.18.2	3314	Spectral flatness procedure needs more clarity	Delete the sentence: "Demodulate the HE PPDUs .....procedure;" and place with the following sentence. " The HE PPDUs shall be demodulated using the following (or equivalent) procedure."	2017/1/9 9:42
4231	Albert Petrick	225	1 28.3.1.8.3	289	19	E	Y	289.19 28.3.1.8.3	3995	Missing space between sentences	Add space and the end of the sentence after the period " . "	2017/1/9 9:42
4232	Albert Petrick	225	1 9.4.2.218.3	86	22	E	Y	86.22 9.4.2.218.3	3548	In Table 9-262aa, missing period after sentence.	Add period at the end of sentence after "range [0.5, 2]."	2017/1/9 9:42
4233	Albert Petrick	225	1 27.8.3	189	49	E	Y	189.49 27.8.3		Period missing at end of sentence	Add period at the of sentence after "field"	2017/1/9 9:42
4234	Albert Petrick	225	1 28.4.3	372	48	T	Y	372.48 28.4.3	3315	Table 28-46 - HE PHY characteristics lists the aPSDUMaxLength set to 6,500,631 octets. It's not clear in the table or text what assumptions were made and how the length is calculated.	Add a NOTE at the bottom of Table 28-46 stating the assumptions and the calculation (Eq.) for determining the PSDU maximum. E.g., 1024-QAM 5/6 rate coding rate, LDPC, 160 MHz channel bandwidth, 8 spatial streams, LDPC.	2017/1/9 9:42
4235	Albert Petrick	225	1 9.4.2.218.3	86	24	T	Y	86.24 9.4.2.218.3	3550	Add clarity and call out bit position in Table 9-262aa for subfield "4x HE-LTF And 0.8 us GI Support For HE PPDUs" corresponding to those bit position in Figure 9-589cl.	Add bit B64 in Definition column Change to: "B64: indicates for the reception of 4x LTF....."	2017/1/9 9:42
4236	Albert Petrick	225	1 28.3.5	246	33	T	Y	246.33 28.3.5	4000	OFDMA PPDU not clarified with HE	Add underlined text (wihout the underline) and remove strikethrough text from line 33 to 35 as follows: "This also includes the SU transmission in an RU that is part of a downlink or uplink HE OFDMA PPDU, and a transmission from one STA that is part of an UL MU-MIMO transmission in current RU.	2017/1/9 9:42
4237	Albert Petrick	225	1 28.3.16	344	36	E	Y	344.36 28.3.16	3628	Remove space between sentences	Delete lines 35 and 36. The text should read as follows: NDP is the only HE sounding format. The format of an HE NDP PPDU is shown in Figure 28-36 (HE NDP PPDU format).	2017/1/9 9:42
4238	Albert Petrick	225	1 27.5.2.2.1	164	53	E	Y	164.53 27.5.2.2.1	3335	Period missing at end of sentence	Add period at end of sentence after the word "S-MPDUs))"	2017/1/9 9:42
4239	Albert Petrick	225	1 28.3.10.7.2	277	58	E	N	277.58 28.3.10.7.2	3316	LDPC misspelled in Table 28-17	Change "LPDC" to "LDPC" in Bandwidth column of Table 28-17	2017/1/9 9:42
4240	Albert Petrick	225	1 9.4.2.218.3	86	28	T	Y	86.28 9.4.2.218.3	3552	Missing "Reserve" Subfield, and text for Definition and Encoding in Table 9-262aa. The Reserve subfield should correspond to the 7 bit positions B65 -B71 in Figure 9-589Cl.	At the end of Table 9-262-aa. Add "Reserved" in Subfield column. Add text (see underlined text) "B65 - B71 (7-bits) are reserved." Encoding column leave blank.	2017/1/9 9:42
4241	Albert Petrick	225	1 28.3.17.4	347	13	E	Y	347.13 28.3.17.4	3631	Extra line space between paragraphs	Remove line 13	2017/1/9 9:42
4242	Albert Petrick	225	1 28.3.6.4	250	43	T	Y	250.43 28.3.6.4	3317	Four extra tones insertion; mapping not correct for Construction of L-SIG.	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
4243	Albert Petrick	225	1 9.4.2.218.3	86	31	T	Y	86.31 9.4.2.218.3	3554	Class A STAs are declared "high capability devices" and class B STAs as "low capability devices" This is the only reference in .11axD1.0 to these terms. Class A and class B STAs are defined in sub-clause 28.3.14 (Transmit requirements for an HE trigger-based PPDU). Transmit power accuracy and RSSI measurement accuracy are discussed in detail e.g., Table 28-40. To eliminate ambiguities, "low and high capability devices" should be defined and referenced back to clause 28.3.14.	Add definition for "low and high capability" devices in clause 28.3.14, and add text reference back to clause 28.3.14. Add underline text (without the underline) to read: "Class A STAs are high capability devices and class B STAs are low capability devices as described in 28.3.14 (Transmit requirements for an HE trigger-based PPDU).	2017/1/9 9:42
4244	Albert Petrick	225	1 27.8.3	189	53	E	Y	189.53 27.8.3		Period missing at end of sentence	Add period at the of sentence after "initiator"	2017/1/9 9:42
4245	Albert Petrick	225	1 28.3.11.2	315	33	E	Y	315.33 28.3.11.2	4008	Paragraph misaligned	Left justify	2017/1/9 9:42
4246	Albert Petrick	225	1 28.3.6.5	251	11	T	Y	251.11 28.3.6.5	3318	Four extra tones insertion; mapping not correct for Construction of RL-SIG.	In f) Change "{-1, -1, -1, 1}" to {-1, -1, 1, 1}"	2017/1/9 9:42
4247	Albert Petrick	225	1 27.5.2.2.1	164	56	E	Y	164.56 27.5.2.2.1	3338	Period missing at end of sentence	Add period at end of sentence after the word "behavior))"	2017/1/9 9:42

4248	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2	3556	The "Value" column in Table 18-1 (TXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 17-1 in subclause 17.2.2.1 of .11axD1.0, or Table 18-1, 18-3 in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.	2017/1/9 9:42
4249	Albert Petrick	225	1 28.3.11.3	317	4	E	Y	317.04 28.3.11.3	4012	Grammar issue	Delete the word "as"	2017/1/9 9:42
4250	Albert Petrick	225	1 28.3.17.6.4	349	15	E	Y	349.15 28.3.17.6.4	3636	Paragraph misaligned	Left justify paragraph	2017/1/9 9:42
4251	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3319	"Doppler subfield indicates a high doppler mode of transmission." Definition, clarification and technical details are not in .11axD1.0 with respect to the range of doppler spread and operating conditions triggering "high doppler mode". In Table 9-262aa pg. 83 "doppler procedure" defines 2-bits and references for "doppler" and makes reference to STAs using a "Doppler Procedure" for HE PPDUs transmissions. Critical technical details on the doppler procedure are lacking in .11axD1.0.	Either remove all references to Doppler in .11axD1.0 (text and in Table 9-262aa) including STA doppler support or add detailed technical content on Doppler Procedure for HE PPDU transmissions in support of clause of 9.3.1.23 and Table 9-262aa.	2017/1/9 9:42
4252	Albert Petrick	225	1 18.2	147	15	T	Y	147.15 18.2	3558	The "Value" column in Table 18-3 (RXVECTOR parameters) is defined for the Parameter. For example, the "Value" for CBW20 or CBW40 are ambiguous. The description of these Values need additional clarification and a reference subclause, similar to those in Table 18-3 in subclause 17.2.2.1 of .11axD1.0, or Tables 18-1, 18-3, in IEEE 802.11-2016, and IEEE 802.11-REVmc - D8.0.	Add text to describe what is meant by CBW20 or CBW40, Static or Dynamic in the Value column and provide reference subclauses.	2017/1/9 9:42
4253	Albert Petrick	225	1 28.3.6.4	250	36	T	Y	250.36 28.3.6.4	4016	Binary convolutional coding and BCC referenced in various subclauses, figures, and tables. This should be defined.	Add definition for "BCC" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4254	Albert Petrick	225	1 28.5	373	28	E	Y	373.28 28.5	3242	Units "Mbps" in Table 28-47 through Tables 28-102 not consistent with units "Mb/s" in text, tables and figures in IEEE 802.11-2016.	Change "Mbps" to "Mb/s" in Tables 28-47 through Table 28-102. There are 54 tables that need updating!	2017/1/9 9:42
4255	Albert Petrick	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3	3320	Table 9-262aa defines HE-PHY Capabilities Information field. Doppler subfield makes reference to Doppler Procedure. There is no text on "Doppler procedure" procedure needs to be defined.	Add technical detail content or remove "Doppler subfield from Table 262aa	2017/1/9 9:42
4256	Albert Petrick	225	1 28.3.18.4.4	355	38	T	Y	355.38 28.3.18.4.4	3560	The EVM for MCS7 (-27 dB) is based on the maximum tx power of MCS7. Clarification is needed why it is being used for BPSK...64-QAM as shown in Table 28-45. The EVM value was selected for UL OFDMA PPDUs. This should be noted or expanded in the text in clause 28.3.18.4.4	Add the following underlined text (without the underline) in the "Note" on line 40 in Table 28-45 as follows: "which EVM is test is conducted. "EVM of -27 dB, is used when the Tx Power is less than the maximum power of MCS7, and assists the AP in managing RUs for UL OFDMA PPDU transmissions."	2017/1/9 9:42
4257	Albert Petrick	225	1 27.8.3	189	57	E	Y	189.57 27.8.3		Period missing at end of sentence	Add period at the of sentence after "initiator"	2017/1/9 9:42
4258	Albert Petrick	225	1 27.5.2.2.1	164	59	E	Y	164.59 27.5.2.2.1	3342	Period missing at end of sentence	Add period at end of sentence after the word "TIDs))"	2017/1/9 9:42
4259	Albert Petrick	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	3321	Doppler is not defined in clause 3.4 of IEEE 802.11-2016 (802.11 REVmc D8.0)	Add "Doppler" definition in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4260	Albert Petrick	225	1 9.4.2.218.2	76	47	E	Y	76.47 9.4.2.218.2	3562	In Figure 9-589ck - (HE MAC PHY Capabilities Information field format) subfield "Group Addressed Multi-STA BlockAck In DL MU Support" is mark as having 4-bits. This is not correct. There is 1-bit assigned (B24).	Change Bits "4" to "1" for subfield "Group Addressed Multi-STA BlockAck In DL MU Support" in Figure 9-589ck.	2017/1/9 9:42
4261	Albert Petrick	225	1 27.9.2.2	192	1	T	Y	192.01 27.9.2.2		The note reference to the antenna connector connection to section 3.1. is ambigous. Clause 3.1 doesn't exist.	Add definition for antenna connector in 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42

4262	Albert Petrick	225	1 27.3.3.1	153	19	E	Y	153.19 27.3.3.1	3322	Extra period	Remove extra period from the end of the sentence.	2017/1/9 9:42
4263	Albert Petrick	225	1 28.3.17.3	345	64	E	Y	345.64 28.3.17.3	3564	Missing Table number reference in clause 28.3.17.3	Change "Table xx-a" to "Table 28-41"	2017/1/9 9:42
4264	Albert Petrick	225	1 27.2.1	149	26	E	Y	149.26 27.2.1	4027	Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4265	Albert Petrick	225	1 28.1.1	209	16	E	Y	209.16 28.1.1	3250	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
4266	Albert Petrick	225	1 27.11.2	196	19	T	Y	196.19 27.11.2		(T)DLS peer STA is not defined or linked to IEEE 802.11-2016 or IEEE 802.11ac-2013	Add text clarification and figure to support description	2017/1/9 9:42
4267	Albert Petrick	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3	3345	Extra period	Add period at end of sentence after the word "PPDU"	2017/1/9 9:42
4268	Albert Petrick	225	1 27.3.4.1	155	44	E	Y	155.44 27.3.4.1	3323	Paragraph misaligned	left justify paragraph	2017/1/9 9:42
4269	Albert Petrick	225	1 28.3.17.6.4	349	16	E	Y	349.16 28.3.17.6.4	3567	Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
4270	Albert Petrick	225	1 9.4.2.221	94	4	E	Y	94.04 9.4.2.221		MU EDCA not defined, nor in IEEE 802.11-2016	Change text "MU EDCA" to "Multi-user (MU) EDCA"	2017/1/9 9:42
4271	Albert Petrick	225	1 27.5.2.5	171	43	E	Y	171.43 27.5.2.5	3324	Extra parenthesis	Remove extra parenthesis at the end of sentence.	2017/1/9 9:42
4272	Albert Petrick	225	1 28.3.10.8	286	8	E	Y	286.08 28.3.10.8		Figure 28-20 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4273	Albert Petrick	225	1 28.1.1	209	19	E	Y	209.19 28.1.1	3258	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
4274	Albert Petrick	225	1 27.2.1	149	28	E	Y	149.28 27.2.1	4033	Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4275	Albert Petrick	225	1 27.5.2.5	171	40	T	Y	171.40 27.5.2.5	3325	"ACs (#2190, 2191)" are remaining CID placeholders and not part of draft .11ax D1.0	Remove references to CIDs #2190, and 2191	2017/1/9 9:42
4276	Albert Petrick	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2	3348	Extra period	Add period at end of sentence after the word "width)"	2017/1/9 9:42
4277	Albert Petrick	225	1 28.3.10.8	286	43	E	Y	286.43 28.3.10.8		Figure 28-21 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4278	Albert Petrick	225	1 28.3.17.6.4	349	44	E	Y	349.44 28.3.17.6.4	3572	Paragraph formatting misalignment in clause 28.3.17.6.4	Fix. Left justify paragraph	2017/1/9 9:42
4279	Albert Petrick	225	1 27.5.2.5	171	41	E	Y	171.41 27.5.2.5	3326	Table number missing for Table 9-XX (Delta TID subfield encoding).	Add Table number 9-18c	2017/1/9 9:42
4280	Albert Petrick	225	1 9.4.2.218.2	77	55	E	Y	77.55 9.4.2.218.2	3349	Table 9-262z misaligned Equation in "Encoding" column. "Off*" misspelled	Fix alignment of Eq Nmax = 2Maximum Number OFF-MPDUs Change "Off*" to "Off". Increase line spacing between sentences for aligning equation.	2017/1/9 9:42
4281	Albert Petrick	225	1 28.3.10.8	287	8	E	Y	287.08 28.3.10.8		Figure 28-22 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4282	Albert Petrick	225	1 28.3.18.4.4	357	11	E	Y	357.11 28.3.18.4.4	3575	Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42
4283	Albert Petrick	225	1 9.3.1.22	42	7	E	Y	42.07 9.3.1.22	3327	Figure 9-52d Common Info field B20-B21 has a spelling error for "GIAnd LTF Type"	Change "GIAnd" to "GI And"	2017/1/9 9:42
4284	Albert Petrick	225	1 10.13.2	128	42	T	Y	128.42 10.13.2	3241	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
4285	Albert Petrick	225	1 28.1.1	209	22	E	Y	209.22 28.1.1	3265	Period missing at end of sentence	Add period at the of sentence after "band"	2017/1/9 9:42
4286	Albert Petrick	225	1 28.3.10.8	287	51	E	Y	287.51 28.3.10.8		Figure 28-23 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4287	Albert Petrick	225	1 27.2.1	149	33	E	Y	149.33 27.2.1	4041	Period missing at end of sentence	Add period at the of sentence after "set"	2017/1/9 9:42
4288	Albert Petrick	225	1 28.3.10.8	288	20	E	Y	288.20 28.3.10.8		Figure 28-23 to small tor read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4289	Albert Petrick	225	1 28.3.18.4.4	357	14	E	Y	357.14 28.3.18.4.4	3580	Sentence formatting misalignment in clause 28.3.17.6.4	Fix. Left justify sentence	2017/1/9 9:42
4290	Albert Petrick	225	1 9.4.2.218.1	76	2	E	Y	76.02 9.4.2.218.1	3328	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
4291	Albert Petrick	225	1 28.3.11.2	315	33	E	Y	315.33 28.3.11.2		Misaligned paragragh	Left justify	2017/1/9 9:42
4292	Albert Petrick	225	1 26.6.2	178	63	T	Y	178.63 26.6.2	3249	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
4293	Albert Petrick	225	1 28.1.1	210	6	E	Y	210.06 28.1.1	3663	Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
4294	Albert Petrick	225	1 28.3.11.13	331	48	E	Y	331.48 28.3.11.13	3583	Misspelling in PPDU BW in Table 28-31 Pilot indices for 52-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-31	2017/1/9 9:42
4295	Albert Petrick	225	1 27.2.1	149	36	E	Y	149.36 27.2.1	4048	Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4296	Albert Petrick	225	1 28.3.11.2	315	50	E	Y	315.50 28.3.11.2		Equation 28-61 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4297	Albert Petrick	225	1 28.3.11.13	332	30	E	Y	332.30 28.3.11.13	3585	Misspelling in PPDU BW in Table 28-33 Pilot indices for 106-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-33	2017/1/9 9:42
4298	Albert Petrick	225	1 28.3.11.2	316	61	E	Y	316.61 28.3.11.2		Equation 28-64 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4299	Albert Petrick	225	1 9.4.2.218.5	89	38	E	Y	89.38 9.4.2.218.5	3329	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
4300	Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13	3589	Misspelling in PPDU BW in Table 28-34 Pilot indices for 242-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-34	2017/1/9 9:42
4301	Albert Petrick	225	1 27.15.4.1	203	18	T	Y	203.18 27.15.4.1	3256	HE Capabilities Element clause number incorrect	Change clause number to "9.4.2.218"	2017/1/9 9:42
4302	Albert Petrick	225	1 28.1.1	210	9	E	Y	210.09 28.1.1	3671	Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
4303	Albert Petrick	225	1 28.3.11.5.1	318	2	E	Y	318.02 28.3.11.5.1		Equation 28-65 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42

4304	Albert Petrick	225	1 9.4.2.218.5	89	13	E	Y	89.13 9.4.2.218.5	3330	Bit positions B0 - Bn not labeled on Figure 9-589cp--PPE Thresholds Info field format	Update Figure 9-589cp with Bit positions B0-Bn for groups of 3 bits per PPET16 and PPET8 subfields.	2017/1/9 9:42
4305	Albert Petrick	225	1 28.3.11.13	333	11	E	Y	333.11 28.3.11.13	3591	Misspelling in PPDU BW in Table 28-36 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-36	2017/1/9 9:42
4306	Albert Petrick	225	1 9.4.2.1	67	16	T	Y	67.16 9.4.2.1	3260	HE Capabilities Element clause number incorrect in Table 9-77 Element IDs	Change clause number to "9.4.2.218"	2017/1/9 9:42
4307	Albert Petrick	225	1 28.3.11.5.2	318	43	E	Y	318.43 28.3.11.5.2		Equation 28-70 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4308	Albert Petrick	225	1 28.3.11.13	334	43	E	Y	334.43 28.3.11.13	3592	Misspelling in PPDU BW in Table 28-37 Pilot indices for 484-tone transmission	Change header "PPD BW" to "PPDU BW" in Table 28-37	2017/1/9 9:42
4309	Albert Petrick	225	1 9.4.2.1	67	20	T	Y	67.20 9.4.2.1	3263	The HE Operation Element clause number is incorrect in Table 9-77 Element IDs.	Change clause number to "9.4.2.219"	2017/1/9 9:42
4310	Albert Petrick	225	1 27.2.1	149	49	E	Y	149.49 27.2.1	4059	Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4311	Albert Petrick	225	1 28.3.11.5.4	321	54	E	Y	321.54 28.3.11.5.4		Equation 28-89 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4312	Albert Petrick	225	1 28.1.1	210	13	E	Y	210.13 28.1.1	3677	Period missing at end of sentence	Add period at the of sentence after "MHz"	2017/1/9 9:42
4313	Albert Petrick	225	1 28.3.12	339	3	E	Y	339.03 28.3.12	3594	Grammar error in text referencing Table 28-38 in clause 28.3.12	Add underlined text (wilhout the underline) to read: "The 3-bit Packet Extension field in HE-SIG-A is defined as shown in Table 28-38.....HE-SIG-A)."	2017/1/9 9:42
4314	Albert Petrick	225	1 28.3.14.3	342	53	T	Y	342.53 28.3.14.3	3359	CCDF not defined	Change "CCDF" to "complementary cumulative distribution function (CCDF)". Add definition for CCDF in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4315	Albert Petrick	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1	3331	Extra period	Remove extra period from the end of sentence.	2017/1/9 9:42
4316	Albert Petrick	225	1 28.3.11.6	322	54	E	Y	322.54 28.3.11.6		Equation 28-92 brackets to small	Increase font size of brackets around equation	2017/1/9 9:42
4317	Albert Petrick	225	1 28.3.11.1	314	36	E	Y	314.36 28.3.11.1	3596	Spelling error "non STBC" in several clauses in .11axD1.0. Not consistent with IEEE 802.11-2016.	Global change text "non STBC" to "non-STBC" (add hyphen after non) throughout .11axD1.0, in text, Figures, Tables and subclause headers.	2017/1/9 9:42
4318	Albert Petrick	225	1 9.3.1.20	40	1	E	Y	40.01 9.3.1.20	3361	Clause title should not be underlined.	Remove underline; Change to "VHT/HE NDP"	2017/1/9 9:42
4319	Albert Petrick	225	1 28.3.11.11	329	46	E	Y	329.46 28.3.11.11		LDPC tone mapper note references index i in Error! Reference source not found. and Error! Reference source not found.	Remove Error! And add external reference source.	2017/1/9 9:42
4320	Albert Petrick	225	1 28.3.10.7.2	281		E	Y	281.00 28.3.10.7.2	3598	Missing period in Table 28-18	Add period. Change "is punctured" to "is punctured."	2017/1/9 9:42
4321	Albert Petrick	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	3363	Parenthesis not needed in Figure 9-52c-Trigger frame	Remove parenthesis - Change "(RA)" to "RA" in Figure 9-52c-Trigger frame	2017/1/9 9:42
4322	Albert Petrick	225	1 27.2.1	149	53	E	Y	149.53 27.2.1	4068	Period missing at end of sentence	Add period at the of sentence after "associated"	2017/1/9 9:42
4323	Albert Petrick	225	1 28.1.1	210	15	E	Y	210.15 28.1.1	3685	Period missing at end of sentence	Add period at the of sentence after "subcarriers"	2017/1/9 9:42
4324	Albert Petrick	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	3332	Extra period	Remove extra period at the end of sentence after the word "context"	2017/1/9 9:42
4325	Albert Petrick	225	1 28.3.11.15	338	43	E	Y	338.43 28.3.11.15		Figure 28-35 to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4326	Albert Petrick	225	1 28.3.10.7.2	276	44	T	Y	276.44 28.3.10.7.2	3600	Table 28-17 referencing B11-B14 Spatial Reuse suggests the need for more development. This is a place holder e.g., TBD.	Delete note in Table 28-17: NOTE: this part needs further development.	2017/1/9 9:42
4327	Albert Petrick	225	1 9.3.1.23	41	59	E	Y	41.59 9.3.1.23	3365	Add space between sentences	Add space at end of sentence after the word "STA."	2017/1/9 9:42
4328	Albert Petrick	225	1 27.2.1	149	61	E	Y	149.61 27.2.1	4078	Period missing at end of sentence	Add period at the of sentence after "Set"	2017/1/9 9:42
4329	Albert Petrick	225	1 28.1.1	210	17	E	Y	210.17 28.1.1	3691	Period missing at end of sentence	Add period at the of sentence after "4"	2017/1/9 9:42
4330	Albert Petrick	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	3333	Extra period	Remove extra period at the end of sentence after the word "allocation)"	2017/1/9 9:42
4331	Albert Petrick	225	1 28.3.12	321	54	E	Y	321.54 28.3.12		Equation 28-89 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4332	Albert Petrick	225	1 28.3.14.3	342	47	E	Y	342.47 28.3.14.3	3604	Period missing at end of sentence	Add period at the end of the sentence after "preamble".	2017/1/9 9:42
4333	Albert Petrick	225	1 9.3.1.23	41	61	E	Y	41.61 9.3.1.23	3369	Add space between sentences	Add space at end of sentence after the word "address."	2017/1/9 9:42
4334	Albert Petrick	225	1 28.3.12	339	44	E	Y	339.44 28.3.12		Equation 28-115 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42

4335	Albert Petrick	225	1 28.3.14.3	342	45	T	Y	342.45 28.3.14.3	3606	In clause 28.3.14.3 transmit power requirements and RSSI measurement accuracy requirements are defined for signal level ranges in dBm operating in the 2.4 GHz and 5GHz bands. The requirements are defined for nominal (room) temperature conditions. Specifying transmit power measurements and RSSI accuracy measurements over temperature is implementation dependent and could be regulatory dependent. Specifying a specific operation temperature drives an implementation and is out-of-scope of the standard.	Delete sentence: "The requirements are for nominal (room) temperature conditions."			2017/1/9 9:42
4336	Albert Petrick	225	1 9.3.3.6	53	36	E	Y	53.36 9.3.3.6	3371	spelling hyphen error in Table 9-30	In Table 9-30 remove hyphen change "pre-sent" to "present"			2017/1/9 9:42
4337	Albert Petrick	225	1 28.3.12	339	62	E	Y	339.62 28.3.12		Equation 28-116 brackets cutoff	vertically center between paragraphs			2017/1/9 9:42
4338	Albert Petrick	225	1 27.2.1	150	2	E	Y	150.02 27.2.1	4090	Period missing at end of sentence	Add period at the of sentence after "Set"			2017/1/9 9:42
4339	Albert Petrick	225	1 27.5.2.2.1	164	53	E	Y	164.53 27.5.2.2.1	3335	Period missing at end of sentence	Add period at end of sentence after the word "S-MPDUs))"			2017/1/9 9:42
4340	Albert Petrick	225	1 28.3.14.3	342	46	T	Y	342.46 28.3.14.3	3609	In clause 28.3.14.3 the RSSI is measured during the "PHY legacy preamble". The RSSI_LEGACY is defined, but the PHY legacy preamble is not. It's not define or referenced in the IEEE 802.11-2016 baseline. This should be defined and referenced back to the IEEE 802.11-2016 baseline standard.	Add definition for PHY legacy preamble in clause 3.4 Definitions, acronyms, and abbreviations with reference back to IEEE 802.11-2016 figures, text or subclause			2017/1/9 9:42
4341	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1	3698	Period missing at end of sentence	Add period at the of sentence after "11"			2017/1/9 9:42
4342	Albert Petrick	225	1 9.3.3.8	54	30	E	Y	54.30 9.3.3.8	3373	spelling hyphen error in Table 9-32	In Table 9-32 remove hyphen change "pre-sent" to "present"			2017/1/9 9:42
4343	Albert Petrick	225	1 28.3.12	340	3	E	Y	340.03 28.3.12		Equation 28-117 brackets cutoff	vertically center between paragraphs			2017/1/9 9:42
4344	Albert Petrick	225	1 28.3.18.2	354	46	E	Y	354.46 28.3.18.2	3612	Extra digit in Table 28-44	Change "+3441" to "+344"			2017/1/9 9:42
4345	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1	3701	Referencing "MCS 10" not consistent in text in .11ax D1.0. Should use "MCS10"	Change "MCS 10" to MCS10" Change "11" to "MCS11"			2017/1/9 9:42
4346	Albert Petrick	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11	3374	spelling hyphen error in Table 9-34	In Table 9-34 remove hyphen change "pre-sent" to "present"			2017/1/9 9:42
4347	Albert Petrick	225	1 28.3.11.8	323	58	T	Y	323.58 28.3.11.8		BCC interleaver explanation needs further clarification. User "u"is reference once in this clause.	Rewrite first paragraph to read with clarity.			2017/1/9 9:42
4348	Albert Petrick	225	1 28.3.14.3	342	12	E	Y	342.12 28.3.14.3	3615	Spelling error with MCS 7	Change "MCS 7" to "MCS7"			2017/1/9 9:42
4349	Albert Petrick	225	1 9.2.4.1.10	20	5	T	Y	20.05 9.2.4.1.10	3375	"HCT/Order subfield" naming should be consistent when referenced in text. It's referenced as "HTC/Order field"	Change to "HCT/Order subfield" on lines 5 and 7			2017/1/9 9:42
4350	Albert Petrick	225	1 27.5.2.2.1	164	56	E	Y	164.56 27.5.2.2.1	3338	Period missing at end of sentence	Add period at end of sentence after the word "behavior))"			2017/1/9 9:42
4351	Albert Petrick	225	1 27.2.2	150	43	E	Y	150.43 27.2.2	4098	Period missing at end of sentence	Add period at the of sentence after "field"			2017/1/9 9:42
4352	Albert Petrick	225	1 28.3.11.9	327	6	E	Y	327.06 28.3.11.9		Spelling errors	Change text "MCS 1" to "MCS1" Change text "MCS 3" to "MCS3" Change text "MCS 4" to "MCS4"			2017/1/9 9:42
4353	Albert Petrick	225	1 28.3.14.3	342	10	E	Y	342.10 28.3.14.3	3617	Spelling error with MCS 0	Change "MCS 0" to "MCS0"			2017/1/9 9:42
4354	Albert Petrick	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1	3377	Reverse Direction Protocol (RDP) in Table 9-18a is missing reference "subclause reference" in the Content of the Control Information subfield.	Add the following clause reference: "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"			2017/1/9 9:42
4355	Albert Petrick	225	1 28.1.1	210	22	E	Y	210.22 28.1.1	3707	Period missing at end of sentence	Add period at the of sentence after "20 MHz"			2017/1/9 9:42
4356	Albert Petrick	225	1 28.3.14.3	342	36	E	Y	342.36 28.3.14.3	3619	In Table 28-40 in the Case A column, there is a hyphen character.	Remove hyphen "-" character and leave cell blank			2017/1/9 9:42
4357	Albert Petrick	225	1 28.3.11.10	327	58	E	Y	327.58 28.3.11.10		Grammar error	Remove "as"			2017/1/9 9:42

4358	Albert Petrick	225	1 9.2.4.6.4.1	22	59	T	Y	22.59 9.2.4.6.4.1	3483	In clause A-Control 9.2.6.4 the text needs to clarify the bit length in the Control ID subfields, describe the sequence ordering and state how many Control IDs are defined and reserved. The text should flow with Table 9-15b, and Table 9-18a.	Add the following underlined text (without the underline), and remove the strikethrough text from lines 59 to 65 on page 22 and lines 11 - 12 to read as follows: The A-Control subfield contains a sequence of one or more Control subfields. The format of each Control subfield is defined shown in Figure 9-15b (Control subfield format). The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence. The Control ID subfield as shown in Figure 9-15b (Control subfield format) is 4-bits in length and indicates the type of information carried in the Control Information subfield. The bit length of the Control Information subfield is fixed for each value of the Control ID subfield that is not reserved. The values of the Control ID subfield and the associated length of the Control Information subfield are		2017/1/9 9:42
4359	Albert Petrick	225	1 27.5.2.2.1	164	59	E	Y	164.59 27.5.2.2.1	3342	Period missing at end of sentence	Add period at end of sentence after the word "TIDs))"		2017/1/9 9:42
4360	Albert Petrick	225	1 28.3.16	344	45	E	Y	344.45 28.3.16	3622	In Figure 28-36 (HE NDP PPDU format) the PE field is the Packet Extension field. The text should reference this field.	Change "Packet Extension" to "Packet Extension (PE)"		2017/1/9 9:42
4361	Albert Petrick	225	1 27.2.2	150	54	E	Y	150.54 27.2.2	4107	Period missing at end of sentence	Add period at the of sentence after "detection)"		2017/1/9 9:42
4362	Albert Petrick	225	1 9.2.4.6.4.2	24	20	E	Y	24.20 9.2.4.6.4.2	3380	Editorial formatting error with Target receiver power, TRSSI,	Remove comma "," before TRSSI and change ", TRSSI" to "(TRSSI)"		2017/1/9 9:42
4363	Albert Petrick	225	1 28.3.11.11	328	57	E	Y	328.57 28.3.11.11		Equation 28-96 brackets cutoff	Resize font of brackets and vertically center between paragraphs		2017/1/9 9:42
4364	Albert Petrick	225	1 28.1.1	210	26	E	Y	210.26 28.1.1	3714	Period missing at end of sentence	Add period at the of sentence after "STA"		2017/1/9 9:42
4365	Albert Petrick	225	1 9.2.4.6.4.2	23	59	T	Y	23.59 9.2.4.6.4.2	3381	Provide more clarity: UL PPDU subfield. The text should reference the "5-bits" for UL PPDU Length field in Figure 9-15c.	Insert text "is 5-bits (B0-B4) that" after the word subfield.		2017/1/9 9:42
4366	Albert Petrick	225	1 28.3.11.11	329	30	E	Y	329.30 28.3.11.11		Equation 28-97 brackets cutoff	Resize font of brackets and vertically center between paragraphs		2017/1/9 9:42
4367	Albert Petrick	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3	3345	Extra period	Add period at end of sentence after the word "PPDU"		2017/1/9 9:42
4368	Albert Petrick	225	1 9.2.4.6.4.6	27	39	T	Y	27.39 9.2.4.6.4.6	3382	No reference to the bits in the Reserve subfield In 9.2.4.6.4.6.	Add the following sentence "Bits (B6-B7) are reserved." after the sentence on line 39.		2017/1/9 9:42
4369	Albert Petrick	225	1 28.3.16	344	36	E	Y	344.36 28.3.16	3628	Remove space between sentences	Delete lines 35 and 36. The text should read as follows: NDP is the only HE sounding format. The format of an HE NDP PPDU is shown in Figure 28-36 (HE NDP PPDU format).		2017/1/9 9:42
4370	Albert Petrick	225	1 27.2.2	150	56	E	Y	150.56 27.2.2	4118	Period missing at end of sentence	Add period at the of sentence after "value"		2017/1/9 9:42
4371	Albert Petrick	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	3384	The bits in Table 9-15i should be called in the text for clarification.	Add the following underlined text. The Control Information 8-bit subfield for the RDP Trigger frame is shown in Figure 9-15i (Control Information subfield format when the Control ID subfield is 6), 6-bits (B2-B7) are reserved. The AC Constraint subfield bit (B0) of the RDP field indicates whether the mapped AC of an RD Data frame is constrained to a single AC, and is defined in Table 9-10 (AC Constraint subfield values), except that if B0 equals a value of 1 indicates that the response from an HE STA contains Data frames from the same AC or higher AC as defined in 10.28.4 (Rules for RD responder). The RDG/More PPDU subfield bit (B1) is defined in Table 9-11 (RDG/More PPDU subfield values).		2017/1/9 9:42
4372	Albert Petrick	225	1 28.3.17.4	347	13	E	Y	347.13 28.3.17.4	3631	Extra line space between paragraphs	Remove line 13		2017/1/9 9:42

4373	Albert Petrick	225	1 28.1.1	210	30	E	Y	210.30 28.1.1	3722	Period missing at end of sentence	Add period at the of sentence after "STA"	2017/1/9 9:42
4374	Albert Petrick	225	1 28.3.11.11	329	39	E	Y	329.39 28.3.11.11		Equation 28-97 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4375	Albert Petrick	225	1 9.3.1.24	41	23	T	Y	41.23 9.3.1.24	3385	CQI acronym not defined in Table 9-25a	Add definition for CQI in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4376	Albert Petrick	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2	3348	Extra period	Add period at end of sentence after the word "width)"	2017/1/9 9:42
4377	Albert Petrick	225	1 28.3.12	338	4	E	Y	338.04 28.3.12		Figure 28-35 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4378	Albert Petrick	225	1 9.4.2.218.3	82	12	E	Y	82.12 9.4.2.218.3	3387	Missing period after sentences in Table 9-262aa	Add "periods" after each sentence in the Definition and Encoding columns in Table 9-262aa	2017/1/9 9:42
4379	Albert Petrick	225	1 27.2.2	150	59	E	Y	150.59 27.2.2	4128	Period missing at end of sentence	Add period at the of sentence after "holder"	2017/1/9 9:42
4380	Albert Petrick	225	1 9.4.2.218.2	77	55	E	Y	77.55 9.4.2.218.2	3349	Table 9-262z misaligned Equation in "Encoding" column. "Off" misspelled	Fix alignment of Eq Nmax = 2Maximum Number OFF-MPDUs. Change "Off" to "Off". Increase line spacing between sentences for aligning equation.	2017/1/9 9:42
4381	Albert Petrick	225	1 28.3.17.6.4	349	15	E	Y	349.15 28.3.17.6.4	3636	Paragraph misaligned	Left justify paragraph	2017/1/9 9:42
4382	Albert Petrick	225	1 28.1.1	210	31	E	Y	210.31 28.1.1	3727	Period missing at end of sentence	Add period at the of sentence after "MSC11"	2017/1/9 9:42
4383	Albert Petrick	225	1 9.4.2.218.5	89	36	T	Y	89.36 9.4.2.218.5	3388	PPET, PPET8 and PPET16 acronym not defined	Add definitions for PPET, PPET8 and PPET16 in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4384	Albert Petrick	225	1 9.4.1.62	56	30	T	Y	56.30 9.4.1.62	3404	Add clarity. Call out bit positions in Table 9-76a for subfield "Nc Index " corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the number of columns, Nc, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B0-B2): Set to 0 for Nc = 1 Set to 1 for Nc = 2 ... Set to 7 for Nc = 8"	2017/1/9 9:42
4385	Albert Petrick	225	1 28.3.14.3	342	53	T	Y	342.53 28.3.14.3	3359	CCDF not defined	Change "CCDF" to "complementary cumulative distribution function (CCDF)". Add definition for CCDF in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4386	Albert Petrick	225	1 9.4.1.62	56	38	T	Y	56.38 9.4.1.62	3406	Add clarity. Call out bit positions in Table 9-76a for subfield "Nr Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "Indicates the number of rows, Nr, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B3-B5): Set to 0 for Nr = 1 Set to 1 for Nr = 2 ... Set to 7 for Nr = 8"	2017/1/9 9:42
4387	Albert Petrick	225	1 9.3.1.20	40	1	E	Y	40.01 9.3.1.20	3361	Clause title should not be underlined.	Remove underline; Change to "VHT/HE NDP"	2017/1/9 9:42
4388	Albert Petrick	225	1 28.3.12	338	62	E	Y	338.62 28.3.12		Equation 28-116 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4389	Albert Petrick	225	1 28.1.1	210	41	E	Y	210.41 28.1.1	3747	Period missing at end of sentence	Add period at the of sentence after "MIMO)"	2017/1/9 9:42
4390	Albert Petrick	225	1 9.4.1.62	56	45	T	Y	56.45 9.4.1.62	3408	Add clarity. Call out bit positions in Table 9-76a for subfield "BW" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the channel width used to determine the starting and ending subcarrier indexes when interpreting the RU Start Index and RU End Index subfields. For 2-bits (B6-B7): Set to 0 for 20 MHz Set to 1 for 40 MHz Set to 2 for 80 MHz Set to 3 for 160 MHz and 80+80 MHz"	2017/1/9 9:42
4391	Albert Petrick	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	3363	Parenthesis not needed in Figure 9-52c-Trigger frame	Remove parenthesis - Change "(RA)" to "RA" in Figure 9-52c-Trigger frame	2017/1/9 9:42
4392	Albert Petrick	225	1 28.1.1	210	6	E	Y	210.06 28.1.1	3663	Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
4393	Albert Petrick	225	1 27.7.4	187	35	E	Y	187.35 27.7.4	4176	Period missing at end of sentence	Add period at the of sentence after "is 0"	2017/1/9 9:42
4394	Albert Petrick	225	1 9.4.1.62	56	53	T	Y	56.53 9.4.1.62	3410	Add clarity. Call out bit positions in Table 9-76a for subfield "Grouping" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the subcarrier grouping, Ng, used for the compressed beamforming feedback matrix: Set bit (B8) as follows: Set to 0 for Ng = 4 Set to 1 for Ng = 16"	2017/1/9 9:42

4395	Albert Petrick	225	1 9.3.1.23	41	59	E	Y	41.59 9.3.1.23	3365	Add space between sentences	Add space at end of sentence after the word "STA."	2017/1/9 9:42
4396	Albert Petrick	225	1 9.4.1.62	57	4	T	Y	57.04 9.4.1.62	3412	Add clarity. Call out bit positions in Table 9-76a for subfield "Codebook Information" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline)in "Description" column to read: "Indicates the size of codebook entries: Set bit B9 for SU and MU Feedback types as follows: If Feedback Type is ....."	2017/1/9 9:42
4397	Albert Petrick	225	1 28.3.12	149	53	E	Y	149.53 28.3.12		Period missing at end of sentence	Add period at the of sentence after "false"	2017/1/9 9:42
4398	Albert Petrick	225	1 28.1.1	210	44	E	Y	210.44 28.1.1	3754	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4399	Albert Petrick	225	1 28.1.1	210	9	E	Y	210.09 28.1.1	3671	Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
4400	Albert Petrick	225	1 9.4.1.62	57	14	T	Y	57.14 9.4.1.62	3414	The bit positions in Table 9-76a for subfield "Feedback Type" should correspond to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the feedback type: For 2-bits (B10-B11) Set to 0 for SU Set to 1 for MU Set to 2 for CQI feedback 3 is reserved"	2017/1/9 9:42
4401	Albert Petrick	225	1 27.7.4	187	37	E	Y	187.37 27.7.4	4187	Period missing at end of sentence	Add period at the of sentence after "is 1"	2017/1/9 9:42
4402	Albert Petrick	225	1 9.3.1.23	41	61	E	Y	41.61 9.3.1.23	3369	Add space between sentences	Add space at end of sentence after the word "address."	2017/1/9 9:42
4403	Albert Petrick	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62	3416	Add clarity. Call out bit positions in Table 9-76a for subfield "Remaining Feedback Segments" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (as not underlined text) in "Description" column to read: "Indicates the number of remaining feedback segments for the associated VHT Compressed Beamforming frame: For 3-bits (B12-B14) Set to 0 for the last feedback segment of a segmented report......"	2017/1/9 9:42
4404	Albert Petrick	225	1 9.3.3.6	53	36	E	Y	53.36 9.3.3.6	3371	spelling hyphen error in Table 9-30	In Table 9-30 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
4405	Albert Petrick	225	1 28.3.12	340	3	E	Y	340.03 28.3.12		Equation 28-117 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4406	Albert Petrick	225	1 28.1.1	210	46	E	Y	210.46 28.1.1	3763	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4407	Albert Petrick	225	1 9.4.1.62	57	32	T	Y	57.32 9.4.1.62	3418	Add clarity. Call out bit positions in Table 9-76a for subfield "First Feedback Segments" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Set bit (B15) as follows: Set to 1 for the first feedback segment of a segmented report or the only feedback segment of an unsegmented report. Set to 0 if not the first feedback segment or if the VHT....."	2017/1/9 9:42
4408	Albert Petrick	225	1 28.1.1	210	13	E	Y	210.13 28.1.1	3677	Period missing at end of sentence	Add period at the of sentence after "MHz"	2017/1/9 9:42
4409	Albert Petrick	225	1 9.3.3.8	54	30	E	Y	54.30 9.3.3.8	3373	spelling hyphen error in Table 9-32	In Table 9-32 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
4410	Albert Petrick	225	1 27.7.4	187	43	E	Y	187.43 27.7.4	4196	Period missing at end of sentence	Add period at the of sentence after "session"	2017/1/9 9:42
4411	Albert Petrick	225	1 28.3.13	340	38	E	Y	340.38 28.3.13		Misaligned paragraph	Left justify	2017/1/9 9:42
4412	Albert Petrick	225	1 9.4.1.62	57	40	T	Y	57.40 9.4.1.62	3419	Add clarity. Call out bit positions in Table 9-76a for subfield "RU Start Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "The starting RU index 7-Bits (B16-B22) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
4413	Albert Petrick	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11	3374	spelling hyphen error in Table 9-34	In Table 9-34 remove hyphen change "pre-sent" to "present"	2017/1/9 9:42
4414	Albert Petrick	225	1 9.3.1.23	47	56	E	Y	47.56 9.3.1.23		Equation 9-ax1 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4415	Albert Petrick	225	1 9.4.1.62	57	43	T	Y	57.43 9.4.1.62	3421	Add clarity. Call out bit positions in Table 9-76a for subfield "RU End Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field.	Add the following underlined text (without the underline) in "Description" column to read: "The ending RU index 7-Bits (B23-B29) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
4416	Albert Petrick	225	1 28.1.1	210	48	E	Y	210.48 28.1.1	3769	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
4417	Albert Petrick	225	1 9.2.4.1.10	20	5	T	Y	20.05 9.2.4.1.10	3375	"HCT/Order subfield" naming should be consistent when referenced in text. It's referenced as "HTC/Order field"	Change to "HCT/Order subfield" on lines 5 and 7	2017/1/9 9:42
4418	Albert Petrick	225	1 9.3.1.23	47	5	E	Y	47.05 9.3.1.23		Equation 9-ax2 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4419	Albert Petrick	225	1 28.1.1	210	15	E	Y	210.15 28.1.1	3685	Period missing at end of sentence	Add period at the of sentence after "subcarriers"	2017/1/9 9:42

4420	Albert Petrick	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	3529	The description of the Sounding Dialog Token Number in Table 9-76a is not correct. This should be similar to the description in Table 9-66.	Add the following underlined text (without the underline) and remove the strikethrough text in "Description" column to read: "The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback. The sounding dialog token is from the HE NDP Announcement frame soliciting feedback. "	2017/1/9 9:42
4421	Albert Petrick	225	1 27.8.3	189	30	E	Y	189.30 27.8.3	4205	Period missing at end of sentence	Add period at the of sentence after "frames"	2017/1/9 9:42
4422	Albert Petrick	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1	3377	Reverse Direction Protocol (RDP) in Table 9-18a is missing reference "subclause reference" in the Content of the Control Information subfield.	Add the following clause reference: "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"	2017/1/9 9:42
4423	Albert Petrick	225	1 9.4.1.63	58	9	E	Y	58.09 9.4.1.63		Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42
4424	Albert Petrick	225	1 9.4.1.62	57	49	T	Y	57.49 9.4.1.62	3423	The "Reserved" subfield and description is missing in Table 9-76a. corresponding to Figure 121a.	At the end of Table 9-76a insert a new row and add the following underlined text (without the underline) "Reserved" in Subfield column, and the following text in Description column. "4-bits (B36-B39) are reserved."	2017/1/9 9:42
4425	Albert Petrick	225	1 9.2.4.6.4.1	22	59	T	Y	22.59 9.2.4.6.4.1	3483	In clause A-Control 9.2.6.4 the text needs to clarify the bit length in the Control ID subfields, describe the sequence ordering and state how many Control IDs are defined and reserved. The text should flow with Table 9-15b, and Table 9-18a.	Add the following underlined text (without the underline), and remove the strikethrough text from lines 59 to 65 on page 22 and lines 11 - 12 to read as follows: The A-Control subfield contains a sequence of one or more Control subfields. The format of each Control subfield is defined shown in Figure 9-15b (Control subfield format). The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence. The Control ID subfield as shown in Figure 9-15b (Control subfield format) is 4-bits in length and indicates the type of information carried in the Control Information subfield. The bit length of the Control Information subfield is fixed for each value of the Control ID subfield that is not reserved. The values of the Control ID subfield and the associated length of the Control Information subfield are	2017/1/9 9:42
4426	Albert Petrick	225	1 28.1.1	210	50	E	Y	210.50 28.1.1	3776	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4427	Albert Petrick	225	1 9.4.1.63	58	28	T	Y	58.28 9.4.1.63	3425	Equation (8-1) missing	Add reference and/or detailed equation (8-1)	2017/1/9 9:42
4428	Albert Petrick	225	1 28.1.1	210	17	E	Y	210.17 28.1.1	3691	Period missing at end of sentence	Add period at the of sentence after "4"	2017/1/9 9:42
4429	Albert Petrick	225	1 9.2.4.6.4.2	24	20	E	Y	24.20 9.2.4.6.4.2	3380	Editorial formatting error with Target receiver power, TRSSI,	Remove comma "," before TRSSI and change ", TRSSI" to "(TRSSI)"	2017/1/9 9:42
4430	Albert Petrick	225	1 27.8.3	189	37	E	Y	189.37 27.8.3	4215	Period missing at end of sentence	Add period at the of sentence after "field"	2017/1/9 9:42
4431	Albert Petrick	225	1 9.4.1.63	59	57	T	Y	59.57 9.4.1.63	3427	In Table 9-76c, "FB" in 20, 40 and 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
4432	Albert Petrick	225	1 9.4.1.63	58	22	E	Y	58.22 9.4.1.63		Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42
4433	Albert Petrick	225	1 9.2.4.6.4.2	23	59	T	Y	23.59 9.2.4.6.4.2	3381	Provide more clarity: UL PPDU subfield. The text should reference the "5-bits" for UL PPDU Length field in Figure 9-15c.	Insert text "is 5-bits (B0-B4) that" after the word subfield.	2017/1/9 9:42
4434	Albert Petrick	225	1 9.4.1.63	61	57	T	Y	61.57 9.4.1.63	3428	In Table 9-76d, "FB" in 20,40, 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
4435	Albert Petrick	225	1 28.1.1	210	58	E	Y	210.58 28.1.1	3785	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
4436	Albert Petrick	225	1 9.2.4.6.4.6	27	39	T	Y	27.39 9.2.4.6.4.6	3382	No reference to the bits in the Reserve subfield In 9.2.4.6.4.6.	Add the following sentence "Bits (B6-B7) are reserved." after the sentence on line 39.	2017/1/9 9:42
4437	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1	3698	Period missing at end of sentence	Add period at the of sentence after "11"	2017/1/9 9:42

4438	Albert Petrick	225	1 9.4.1.63	59	38	T	Y	59.38 9.4.1.63	3539	The S-tone and E-tone description needs clarification when comparing and referencing tables 9-76c and 9-76d.	Add underlined text (without the underline) and remove strikethrough text from line 38 to 49 as follows: The S-tone and E-tone corresponding to the possible RU indices for 20MHz, 40MHz and 80 MHz channels are listed in Table 9-76c and Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 are shown in Table 9-76c, and for Ng = 16 for in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16. For 160 MHz, to determine the S-tone and E-tone, RUs 37 to 73 occupying the higher 80 MHz use the same entries in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) and Table 9-76d (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index Ng = 16) as			2017/1/9 9:42
4439	Albert Petrick	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	3384	The bits in Table 9-15i should be called in the text for clarification.	Add the following underlined text. The Control Information 8-bit subfield for the RDP Trigger frame is shown in Figure 9-15i (Control Information subfield format when the Control ID subfield is 6), 6-bits (B2-B7) are reserved. The AC Constraint subfield bit (B0) of the RDP field indicates whether the mapped AC of an RD Data frame is constrained to a single AC, and is defined in Table 9-10 (AC Constraint subfield values), except that if B0 equals a value of 1 indicates that the response from an HE STA contains Data frames from the same AC or higher AC as defined in 10.28.4 (Rules for RD responder). The RDG/More PPDU subfield bit (B1) is defined in Table 9-11 (RDG/More PPDU subfield values).			2017/1/9 9:42
4440	Albert Petrick	225	1 27.8.3	189	46	E	Y	189.46 27.8.3	4225	Period missing at end of sentence	Add period at the of sentence after "field"			2017/1/9 9:42
4441	Albert Petrick	225	1 28.1.1	210	18	E	Y	210.18 28.1.1	3701	Referencing "MCS 10" not consistent in text in .11ax D1.0. Should use "MCS10"	Change "MCS 10" to MCS10" Change "11" to "MCS11"			2017/1/9 9:42
4442	Albert Petrick	225	1 9.4.1.63	58	30	E	Y	58.30 9.4.1.63		Extra paragraph line space	Remove line space between paragraph			2017/1/9 9:42
4443	Albert Petrick	225	1 9.4.1.63	63	21	T	Y	63.21 9.4.1.63	3431	Calculating the AveSNRi needs more clarification.	Add the following underlined text (without the underline) and remove the strikethrough text from lines 21 through 30 as follows: The AvgSNRi in Table 9-71 (Average SNR of Space-Time Stream i subfield) is found determined by computing the SNR per subcarrier in decibels for the subcarriers in 20 MHz channel bandwidth identified in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 , and for Ng = 16 in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16, and then The computing tThe arithmetic mean is calculated of for those values. Each SNR value per subcarrier in stream i (before being averaged) corresponds to the SNR associated with the column i of the beamforming feedback matrix V determined at the beamformee. Each SNR			2017/1/9 9:42
4444	Albert Petrick	225	1 9.3.1.24	41	23	T	Y	41.23 9.3.1.24	3385	CQI acronym not defined in Table 9-25a	Add definition for CQI in clause 3.4 Definitions, acronyms, and abbreviations			2017/1/9 9:42

4445	Albert Petrick	225	1 28.1.1	210	64	E	Y	210.64 28.1.1	3792	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
4446	Albert Petrick	225	1 9.4.1.63	63	4	E	Y	63.04 9.4.1.63	3432	Spelling error "indeces" in Table 9-763.	Change "indeces" to "indices"	2017/1/9 9:42
4447	Albert Petrick	225	1 9.4.2.218.3	82	12	E	Y	82.12 9.4.2.218.3	3387	Missing period after sentences in Table 9-262aa	Add "periods" after each sentence in the Definition and Encoding columns in Table 9-262aa	2017/1/9 9:42
4448	Albert Petrick	225	1 28.1.1	210	64	T	Y	210.64 28.1.1	3795	Bandwidth should be specific to 20 MHz channels	Add the word "channel" before "bandwidth"	2017/1/9 9:42
4449	Albert Petrick	225	1 9.4.1.64	64	48	T	Y	64.48 9.4.1.64	3434	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
4450	Albert Petrick	225	1 28.1.1	210	22	E	Y	210.22 28.1.1	3707	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
4451	Albert Petrick	225	1 27.8.3	189	49	E	Y	189.49 27.8.3	4233	Period missing at end of sentence	Add period at the of sentence after "field"	2017/1/9 9:42
4452	Albert Petrick	225	1 9.4.2.6	68	60	E	Y	68.60 9.4.2.6		Period missing at end of sentence	Add period at the of sentence after "reserved"	2017/1/9 9:42
4453	Albert Petrick	225	1 9.4.2.218.5	89	36	T	Y	89.36 9.4.2.218.5	3388	PPET, PPET8 and PPET16 acronym not defined	Add definitions for PPET, PPET8 and PPET16 in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4454	Albert Petrick	225	1 9.4.2.221	94	56	T	Y	94.56 9.4.2.221	3244	MUEDCATimer not defined	Add definition for MUEDCATimer in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4455	Albert Petrick	225	1 28.1.1	211	5	E	Y	211.05 28.1.1	3800	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
4456	Albert Petrick	225	1 9.4.1.64	64	53	T	Y	64.53 9.4.1.64	3436	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
4457	Albert Petrick	225	1 27.16.1	204	56	E	Y	204.56 27.16.1	3246	Sentence center justified should be left justified	Left justify sentence; "A STA for which dot11HEOptionImplemented is true shall set dot11VeryHighThroughputOptionImplemented or dot11HighThroughputOptionImplemented to true."	2017/1/9 9:42
4458	Albert Petrick	225	1 28.1.1	210	26	E	Y	210.26 28.1.1	3714	Period missing at end of sentence	Add period at the of sentence after "STA"	2017/1/9 9:42
4459	Albert Petrick	225	1 27.8.3	189	53	E	Y	189.53 27.8.3	4244	Period missing at end of sentence	Add period at the of sentence after "initiator"	2017/1/9 9:42
4460	Albert Petrick	225	1 9.4.2.6	68	62	E	Y	68.62 9.4.2.6		Period missing at end of sentence	Add period at the of sentence after "reserved"	2017/1/9 9:42
4461	Albert Petrick	225	1 28.3.11.5	317	32	T	Y	317.32 28.3.11.5	3251	BCC acronym not defined	Add definition for "BCC = binary convolutional code" in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4462	Albert Petrick	225	1 9.4.1.64	64	13	E	Y	64.13 9.4.1.64	3437	Remove paragraph indent	Fix paragraph alignment starting at "No padding is present...."	2017/1/9 9:42
4463	Albert Petrick	225	1 9.4.2.200	69	32	E	Y	69.32 9.4.2.200		Figure 9-589av misaligned	Align figure to fit on page	2017/1/9 9:42
4464	Albert Petrick	225	1 28.3.11.5	317	33	T	Y	317.33 28.3.11.5	3252	LDPC acronym not defined	Add definition for "LDPC = low density parity check " in clause 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4465	Albert Petrick	225	1 9.4.1.64	64	18	T	Y	64.18 9.4.1.64	3439	Equation (9-2) is referenced in the text and in Table 9-76f HE MU Exclusive Beamforming Report information, and is not linked or referenced to any other documents. Equation (9-2) should be linked and referenced to its location IEEE 802.11-2016 (Rev D8.0) and clarified as a "Note" at the end of Table 9-76f.	Add note for equation 9-2 in text and/or add the following underlined text (without the underline) and reference link in Table 9-76f as a Note: "as defined in Equation (9-2) in clause 9.4.1.51 (MU Exclusive Beamforming Report Field)"	2017/1/9 9:42
4466	Albert Petrick	225	1 28.1.1	211	8	E	Y	211.08 28.1.1	3807	Period missing at end of sentence	Add period at the of sentence after "PPDU"	2017/1/9 9:42
4467	Albert Petrick	225	1 9.4.2.218.2	76	40	E	Y	76.40 9.4.2.218.2		Figure 9-589av subfield "Group Addressed Multi-STA Block Ack in DL MU Support" is marked as having 5 Bits. Only 1-bit B24 is assigned to the subfield.	Change "4" to "1" in Figure 9-589av	2017/1/9 9:42
4468	Albert Petrick	225	1 28.1.1	210	30	E	Y	210.30 28.1.1	3722	Period missing at end of sentence	Add period at the of sentence after "STA"	2017/1/9 9:42
4469	Albert Petrick	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23	3255	Space missing between words in GIAnd LTF Type subfield of Figure 9-52	Add character space between the letters "IA" in "GIAnd LTF Type". Should read as "GI And LTF Type"	2017/1/9 9:42
4470	Albert Petrick	225	1 9.4.1.64	64	30	T	Y	64.30 9.4.1.64	3440	Equation (9-2) reference in Table 9-76f calls out subcarrier k=scidx(0) and k=scidx(1). Equation 9-2 in IEEE 802.11-2016 (Rev D8.0) in clause 9.4.1.51 specifies k=sscidx(0) and k=sscidx(1) There appears to be an ambiguity in equation in 9-2 and with k=scidx(_)	Fix references for subcarrier k=scidx(0) and k=scidx(1) in Table 9-76f (lines 30-54) to match assumptions with equation 9-2 in clause 9.4.1.51 in IEEE 802.11-2016 (Rev D8.0)	2017/1/9 9:42
4471	Albert Petrick	225	1 27.8.3	189	57	E	Y	189.57 27.8.3	4257	Period missing at end of sentence	Add period at the of sentence after "initiator"	2017/1/9 9:42
4472	Albert Petrick	225	1 9.4.2.225	97	16	T	Y	97.16 9.4.2.225		Element ID Extension subfield shown in Figure 9-589db (Quiet Time Period Response element) is not defined in the text following the figure.	Define subfields "Element ID Extension"	2017/1/9 9:42
4473	Albert Petrick	225	1 9.4.1.62	56	15	E	Y	56.15 9.4.1.62	3259	Table 9-121a bit positions misaligned	Fix bit alignment with each subfield and resize Figure 9-121a to fit center of page.	2017/1/9 9:42

4474	Albert Petrick	225	1 28.4.2	371	36	T	Y	371.36 28.4.2	3441	Clarify "aSignalExtension" referenced from Table 19-25	Add the following underlined text (without the underline): and is aSignalExtension (0us for 5 GHz band, 6us for 2.4 GHz band)	2017/1/9 9:42
4475	Albert Petrick	225	1 27.9.2.2	192	1	T	Y	192.01 27.9.2.2	4261	The note reference to the antenna connector connection to section 3.1. is ambigous. Clause 3.1 doesn't exist.	Add definition for antenna connector in 3.4 Definitions, acronyms, and abbreviations	2017/1/9 9:42
4476	Albert Petrick	225	1 28.1.1	211	9	E	Y	211.09 28.1.1	3813	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4477	Albert Petrick	225	1 9.4.1.62	56	4	T	Y	56.04 9.4.1.62	3261	The text in Clause 9.4.1.62 HE MIMO Control field) needs clarification. The text should call out number of bits and range of bits for Figure 9-121a.	Add the following underlined text (not underlined text) : The HE MIMO Control field is included in every HE Compressed Beamforming frame (see 9.4.1.63 (HE Compressed Beamforming Report field)). The HE MIMO Control field is 40-bits (B0-B39) and is defined in Figure 9-121a (HE MIMO Control field). The subfields and bit assignments (B0-B39) are defined and described in Table 9-7a (HE MIMO Control field encoding).	2017/1/9 9:42
4478	Albert Petrick	225	1 28.4.2	371	39	E	Y	371.39 28.4.2	3443	Missing period	Add period at the end of sentence after "false"	2017/1/9 9:42
4479	Albert Petrick	225	1 27.11.2	196	19	T	Y	196.19 27.11.2	4266	(T)DLS peer STA is not defined or linked to IEEE 802.11-2016 or IEEE 802.11ac-2013	Add text clarification and figure to support description	2017/1/9 9:42
4480	Albert Petrick	225	1 28.1.1	210	31	E	Y	210.31 28.1.1	3727	Period missing at end of sentence	Add period at the of sentence after "MSC11"	2017/1/9 9:42
4481	Albert Petrick	225	1 9.2.5.2	32	1	E	Y	32.01 9.2.5.2	3444	Format error - sentence alignment	Sentence format needs to be left justified.	2017/1/9 9:42
4482	Albert Petrick	225	1 9.4.1.62	56	30	T	Y	56.30 9.4.1.62	3404	Add clarity. Call out bit positions in Table 9-76a for subfield "Nc Index " corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (wilhout the underline) in "Description" column to read: "Indicates the number of columns, Nc, in the compressed beamforming feed-back matrix minus 1: For 3-bits (B0-B2): Set to 0 for Nc = 1 Set to 1 for Nc = 2 ... Set to 7 for Nc = 8"	2017/1/9 9:42
4483	Albert Petrick	225	1 9.4.2.221	94	4	E	Y	94.04 9.4.2.221	4270	MU EDCA not defined, nor in IEEE 802.11-2016	Change text "MU EDCA" to "Multi-user (MU) EDCA"	2017/1/9 9:42
4484	Albert Petrick	225	1 9.6.28.3	104	2	E	Y	104.02 9.6.28.3		Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42
4485	Albert Petrick	225	1 9.4.1.62	56	38	T	Y	56.38 9.4.1.62	3406	Add clarity. Call out bit positions in Table 9-76a for subfield "Nr Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "Indicates the number of rows, Nr, in the compressed beamforming feed-back matrix minus 1 : For 3-bits (B3-B5): Set to 0 for Nr = 1 Set to 1 for Nr = 2 ... Set to 7 for Nr = 8"	2017/1/9 9:42
4486	Albert Petrick	225	1 9.3.1.9.1	34	12	T	Y	34.12 9.3.1.9.1	3446	In Figure 9-33 (BA Control Field) B8 (B5) in the Reserve sub-field is marked as deleted (strikethrough) as shown. The Reserved subfield now shows 7-bits (B6-B11). The text does not describe B5. Define B5 or correct Figure 9-33	Fix as commented	2017/1/9 9:42
4487	Albert Petrick	225	1 28.3.10.8	286	8	E	Y	286.08 28.3.10.8	4272	Figure 28-20 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4488	Albert Petrick	225	1 28.1.1	211	13	E	Y	211.13 28.1.1	3273	Period missing at end of sentence	Add period at the of sentence after "DL OFDMA)"	2017/1/9 9:42
4489	Albert Petrick	225	1 28.1.1	210	33	E	Y	210.33 28.1.1	3247	Period missing at end of sentence	Add period at the of sentence after "5"	2017/1/9 9:42
4490	Albert Petrick	225	1 9.4.1.62	56	45	T	Y	56.45 9.4.1.62	3408	Add clarity. Call out bit positions in Table 9-76a for subfield "BW" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (wilhout the underline) in "Description" column to read: "Indicates the channel width used to determine the starting and ending subcarrier indexes when interpreting the RU Start Index and RU End Index subfields. For 2-bits (B6-B7): Set to 0 for 20 MHz Set to 1 for 40 MHz Set to 2 for 80 MHz Set to 3 for 160 MHz and 80+80 MHz"	2017/1/9 9:42
4491	Albert Petrick	225	1 B.4.27.2	413	45	E	Y	413.45 B.4.27.2	3447	Numbering / letter (5GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "5GHz" to "5 GHz"	2017/1/9 9:42
4492	Albert Petrick	225	1 28.3.10.8	286	43	E	Y	286.43 28.3.10.8	4277	Figure 28-21 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4493	Albert Petrick	225	1 9.6.28.3	104	5	E	Y	104.05 9.6.28.3		Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42

4494	Albert Petrick	225	1 9.4.1.62	56	53	T	Y	56.53 9.4.1.62	3410	Add clarity. Call out bit positions in Table 9-76a for subfield "Grouping" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the subcarrier grouping, Ng, used for the compressed beamforming feedback matrix: Set bit (B8) as follows: Set to 0 for Ng = 4 Set to 1 for Ng = 16"	2017/1/9 9:42
4495	Albert Petrick	225	1 9.3.1.23	45	6	E	Y	45.06 9.3.1.23	3449	Number / letter (2.4GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "2.4GHz" to "2.4 GHz"	2017/1/9 9:42
4496	Albert Petrick	225	1 28.3.10.8	287	8	E	Y	287.08 28.3.10.8	4281	Figure 28-22 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4497	Albert Petrick	225	1 28.1.1	211	15	E	Y	211.15 28.1.1	3283	Period missing at end of sentence	Add period at the of sentence after "UL OFDMA)"	2017/1/9 9:42
4498	Albert Petrick	225	1 9.4.1.62	57	4	T	Y	57.04 9.4.1.62	3412	Add clarity. Call out bit positions in Table 9-76a for subfield "Codebook Information" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline)in "Description" column to read: "Indicates the size of codebook entries: Set bit B9 for SU and MU Feedback types as follows: If Feedback Type is ....."	2017/1/9 9:42
4499	Albert Petrick	225	1 28.1.1	210	35	E	Y	210.35 28.1.1	3254	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
4500	Albert Petrick	225	1 28.3.10.8	287	51	E	Y	287.51 28.3.10.8	4286	Figure 28-23 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4501	Albert Petrick	225	1 9.4.1.62	57	14	T	Y	57.14 9.4.1.62	3414	The bit positions in Table 9-76a for subfield "Feedback Type" should correspond to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Indicates the feedback type: For 2-bits (B10-B11) Set to 0 for SU Set to 1 for MU Set to 2 for CQI feedback 3 is reserved"	2017/1/9 9:42
4502	Albert Petrick	225	1 28.3.10.8	288	20	E	Y	288.20 28.3.10.8	4288	Figure 28-23 to small tor read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4503	Albert Petrick	225	1 9.6.28.3	104	9	E	Y	104.09 9.6.28.3		Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42
4504	Albert Petrick	225	1 9.4.2.218.2	76	24	E	Y	76.24 9.4.2.218.2	3450	Format error - sentence alignment	Fix paragraph alignment - left justify.	2017/1/9 9:42
4505	Albert Petrick	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62	3416	Add clarity. Call out bit positions in Table 9-76a for subfield "Remaining Feedback Segments" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (as not underlined text) in "Description" column to read: "Indicates the number of remaining feedback segments for the associated VHT Compressed Beamforming frame: For 3-bits (B12-B14) Set to 0 for the last feedback segment of a segmented report....."	2017/1/9 9:42
4506	Albert Petrick	225	1 28.1.1	211	18	E	Y	211.18 28.1.1	3829	Period missing at end of sentence	Add period at the of sentence after "streams"	2017/1/9 9:42
4507	Albert Petrick	225	1 28.3.11.2	315	33	E	Y	315.33 28.3.11.2	4291	Misaligned paragragh	Left justify	2017/1/9 9:42
4508	Albert Petrick	225	1 9.6.29.2	104	50	E	Y	104.50 9.6.29.2		Spelling error	Change "TTable" to "Table"	2017/1/9 9:42
4509	Albert Petrick	225	1 9.4.2.218.3	81	35	E	Y	81.35 9.4.2.218.3	3453	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield NSTA Total For < 80 MHz is labeled as having 2-bits. There are 3-bits (B37 -B39).	Change Bits "2" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9m-589cl	2017/1/9 9:42
4510	Albert Petrick	225	1 28.1.1	210	38	E	Y	210.38 28.1.1	3264	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4511	Albert Petrick	225	1 9.4.1.62	57	32	T	Y	57.32 9.4.1.62	3418	Add clarity. Call out bit positions in Table 9-76a for subfield "First Feedback Segments" corresponding to the bit positions in Figure 9-121a HE MIMO Control field	Add underlined text (without the underline) in "Description" column to read: "Set bit (B15) as follows: Set to 1 for the first feedback segment of a segmented report or the only feedback segment of an unsegmented report. Set to 0 if not the first feedback segment or if the VHT....."	2017/1/9 9:42
4512	Albert Petrick	225	1 28.3.11.2	315	50	E	Y	315.50 28.3.11.2	4296	Equation 28-61 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4513	Albert Petrick	225	1 9.7.3	108	64	E	Y	108.64 9.7.3		Spelling error in Note of Table 9-424	Change "block ack" to "Block Ack"	2017/1/9 9:42
4514	Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3455	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For < 80 MHz" is mark as having 1-bit. There are 3-bits (B46 -B48).	Change Bits "1" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9-589cl	2017/1/9 9:42
4515	Albert Petrick	225	1 9.4.1.62	57	40	T	Y	57.40 9.4.1.62	3419	Add clarity. Call out bit positions in Table 9-76a for subfield "RU Start Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field	Add underlined text in "Description" column to read: "The starting RU index 7-Bits (B16-B22) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
4516	Albert Petrick	225	1 28.3.11.2	316	61	E	Y	316.61 28.3.11.2	4298	Equation 28-64 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4517	Albert Petrick	225	1 9.7.3	110	69	E	Y	110.69 9.7.3		Period missing at end of sentence in Note 2 of Table 9-425	Add period at the of sentence after "MPDU"	2017/1/9 9:42

4518	Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3270	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For > 80 MHz" is labeled as 1-bit. There are 3-bits (B49 -B51).	Change Bits "1" to "3" for subfield "NSTS Total for > 80 MHz" in Figure 9-589cl	2017/1/9 9:42
4519	Albert Petrick	225	1 28.1.1	211	21	E	Y	211.21 28.1.1	3835	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4520	Albert Petrick	225	1 28.1.1	210	41	E	Y	210.41 28.1.1	3747	Period missing at end of sentence	Add period at the of sentence after "MIMO)"	2017/1/9 9:42
4521	Albert Petrick	225	1 9.4.1.62	57	43	T	Y	57.43 9.4.1.62	3421	Add clarity. Call out bit positions in Table 9-76a for subfield "RU End Index" corresponding to those bit positions in Figure 9-121a HE MIMO Control field.	Add the following underlined text (without the underline) in "Description" column to read: "The ending RU index 7-Bits (B23-B29) indicates the first 26-tone RU for which the HE beamformer is requesting feedback."	2017/1/9 9:42
4522	Albert Petrick	225	1 28.3.11.5.1	318	2	E	Y	318.02 28.3.11.5.1	4303	Equation 28-65 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4523	Albert Petrick	225	1 9.4.2.218.3	83	6	T	Y	83.06 9.4.2.218.3	3274	Add clarity. Call out bit positions in Table 9-262aa for subfield "Device Class" corresponding to those bit positions in Figure 9-589cl	In "Definition" column: Add "B12:" at the beginning of the sentence." In the "Encoding" column: Before sentence Add "B12:" "Set to 1 to indicate STA is a Class A device." In the "Encoding" column: Before sentence Add "B12:" Set to 0 to indicate STA is a Class B device. Note: This field is reserved when transmitting STA is an AP STA."	2017/1/9 9:42
4524	Albert Petrick	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	3529	The description of the Sounding Dialog Token Number in Table 9-76a is not correct. This should be similar to the description in Table 9-66.	Add the following underlined text (without the underline) and remove the strikethrough text in "Description" column to read: "The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback. The sounding dialog token is from the HE NDP Announcement frame soliciting feedback. "	2017/1/9 9:42
4525	Albert Petrick	225	1 28.3.11.5.2	318	43	E	Y	318.43 28.3.11.5.2	4307	Equation 28-70 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4526	Albert Petrick	225	1 9.4.2.218.3	83	13	T	Y	83.13 9.4.2.218.3	3277	Add clarity and call out bit positions in Table 9-262aa for subfield "LDPC Coding In Payload" corresponding to those bit positions in Figure 9-589cl	Change text in "Definition" column to read: "B13: Indicates support of transmission....." Change text in "Encoding" column to read: "B13: Set to 1 to indicate STA... B13: Set to 9 otherwise. "	2017/1/9 9:42
4527	Albert Petrick	225	1 9.4.1.62	57	49	T	Y	57.49 9.4.1.62	3423	The "Reserved" subfield and description is missing in Table 9-76a. corresponding to Figure 121a.	At the end of Table 9-76a insert a new row and add the following underlined text (without the underline) "Reserved" in Subfield column, and the following text in Description column. "4-bits (B36-B39) are reserved."	2017/1/9 9:42
4528	Albert Petrick	225	1 10.22.2.7	131	61	E	Y	131.61 10.22.2.7		Period missing at end of sentence	Add period at the of sentence after "frames"	2017/1/9 9:42
4529	Albert Petrick	225	1 28.1.1	211	26	E	Y	211.26 28.1.1	3841	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4530	Albert Petrick	225	1 28.3.11.5.4	321	54	E	Y	321.54 28.3.11.5.4	4311	Equation 28-89 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4531	Albert Petrick	225	1 28.1.1	210	44	E	Y	210.44 28.1.1	3754	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4532	Albert Petrick	225	1 9.4.2.218.3	83	16	T	Y	83.16 9.4.2.218.3	3282	Add clarity and call out bit positions in Table 9-262 aa for subfield "HE-LTF And GI For HE PPDUs" corresponding to those bit positions in Figure 9-589cl	Change text in "Encoding column to read: "For B14 and B15: Set to 1 if supported by the STA. Set to 0 otherwise."	2017/1/9 9:42
4533	Albert Petrick	225	1 9.4.1.63	58	28	T	Y	58.28 9.4.1.63	3425	Equation (8-1) missing	Add reference and/or detailed equation (8-1)	2017/1/9 9:42
4534	Albert Petrick	225	1 28.3.11.6	322	54	E	Y	322.54 28.3.11.6	4316	Equation 28-92 brackets to small	Increase font size of brackets around equation	2017/1/9 9:42
4535	Albert Petrick	225	1 9.4.2.218.3	82	15	E	Y	82.15 9.4.2.218.3	3286	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 2.4 GHz.	2017/1/9 9:42
4536	Albert Petrick	225	1 9.4.1.63	59	57	T	Y	59.57 9.4.1.63	3427	In Table 9-76c, "FB" in 20, 40 and 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
4537	Albert Petrick	225	1 28.3.11.11	329	46	E	Y	329.46 28.3.11.11	4319	LDPC tone mapper note references index I in Error! Reference source not found. and Error! Reference source not found.	Remove Error! And add external reference source.	2017/1/9 9:42
4538	Albert Petrick	225	1 10.22.2.7	131	65	E	Y	131.65 10.22.2.7		Period missing at end of sentence	Add period at the of sentence after "frames"	2017/1/9 9:42

4539	Albert Petrick	225	1 28.1.1	211	29	E	Y	211.29 28.1.1	3847	Period missing at end of sentence	Add period at the of sentence after "MIMO)"	2017/1/9 9:42
4540	Albert Petrick	225	1 9.4.1.63	61	57	T	Y	61.57 9.4.1.63	3428	In Table 9-76d, "FB" in 20,40, 80 MHz (S, E) FB tone labels need to be defined to follow the foregoing text.	Change "FB" to "Feedback" in column label headers: 80 MHz FB tone, 40 MHz FB tone and 20 MHz FB tone.	2017/1/9 9:42
4541	Albert Petrick	225	1 28.1.1	210	46	E	Y	210.46 28.1.1	3763	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4542	Albert Petrick	225	1 28.3.11.15	338	43	E	Y	338.43 28.3.11.15	4325	Figure 28-35 to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4543	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3465	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
4544	Albert Petrick	225	1 9.4.1.63	59	38	T	Y	59.38 9.4.1.63	3539	The S-tone and E-tone description needs clarification when comparing and referencing tables 9-76c and 9-76d.	Add underlined text (without the underline) and remove strikethrough text from line 38 to 49 as follows: The S-tone and E-tone corresponding to the possible RU indices for 20MHz, 40MHz and 80 MHz channels are listed in Table 9-76c and Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 are shown in Table 9-76c, and for Ng = 16 for in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16. For 160 MHz, to determine the S-tone and E-tone, RUs 37 to 73 occupying the higher 80 MHz use the same entries in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) and Table 9-76d (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index Ng = 16) as	2017/1/9 9:42
4545	Albert Petrick	225	1 9.4.1.63	63	21	T	Y	63.21 9.4.1.63	3431	Calculating the AveSNRi needs more clarification.	Add the following underlined text (without the underline) and remove the strikethrough text from lines 21 through 30 as follows: The AvgSNRi in Table 9-71 (Average SNR of Space-Time Stream i subfield) is found determined by computing the SNR per subcarrier in decibels for the subcarriers in 20 MHz channel bandwidth identified in Table 9-76c (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 4) for Ng = 4 . and for Ng = 16 in Table 9-76d. (Feedback subcarrier indices indicating start 26-tone RU index and end 26-tone RU index for Ng = 16) for Ng = 16, and then The computing tThe arithmetic mean is calculated of for those values. Each SNR value per subcarrier in stream i (before being averaged) corresponds to the SNR associated with the column i of the beamforming feedback matrix V determined at the beamformee. Each SNR	2017/1/9 9:42
4546	Albert Petrick	225	1 28.1.1	211	32	E	Y	211.32 28.1.1	3854	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4547	Albert Petrick	225	1 10.22.2.7	132	9	E	Y	132.09 10.22.2.7		Period missing at end of sentence	Add period at the of sentence after "frames"	2017/1/9 9:42
4548	Albert Petrick	225	1 28.1.1	210	48	E	Y	210.48 28.1.1	3769	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
4549	Albert Petrick	225	1 28.3.12	321	54	E	Y	321.54 28.3.12	4331	Equation 28-89 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4550	Albert Petrick	225	1 9.4.1.63	63	4	E	Y	63.04 9.4.1.63	3432	Spelling error "indeces" in Table 9-763	Change "indeces" to "indices"	2017/1/9 9:42
4551	Albert Petrick	225	1 9.4.2.218.3	82	20	E	Y	82.20 9.4.2.218.3	3468	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
4552	Albert Petrick	225	1 9.4.1.64	64	48	T	Y	64.48 9.4.1.64	3434	Missing number of bits for Delta SNR for k=sc(ix)(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
4553	Albert Petrick	225	1 28.3.12	339	44	E	Y	339.44 28.3.12	4334	Equation 28-115 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4554	Albert Petrick	225	1 28.3.12	339	62	E	Y	339.62 28.3.12	4337	Equation 28-116 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4555	Albert Petrick	225	1 28.1.1	211	34	E	Y	211.34 28.1.1	3859	Period missing at end of sentence	Add period at the of sentence after "PPDU"	2017/1/9 9:42
4556	Albert Petrick	225	1 28.1.1	210	50	E	Y	210.50 28.1.1	3776	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4557	Albert Petrick	225	1 10.22.2.7	132	65	E	Y	132.65 10.22.2.7		Period missing at end of sentence	Add period at the of sentence after "A-MPDU"	2017/1/9 9:42

4558	Albert Petrick	225	1 9.4.2.218.3	82	23	E	Y	82.23 9.4.2.218.3	3471	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
4559	Albert Petrick	225	1 28.3.12	340	3	E	Y	340.03 28.3.12	4343	Equation 28-117 brackets cutoff	vertically center between paragraphs	2017/1/9 9:42
4560	Albert Petrick	225	1 9.4.2.218.2	77	21	T	Y	77.21 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "HTC-HE Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B0:" in Definition column before the word "Indicates" Add bit "B0:" in Encoding column before the word "Set"	2017/1/9 9:42
4561	Albert Petrick	225	1 9.4.1.64	64	53	T	Y	64.53 9.4.1.64	3436	Missing number of bits for Delta SNR for k=scidx(Ns-1)	Add number of bits for (Ns-1) for Delta SNR	2017/1/9 9:42
4562	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3472	Table 9-262aa, "Encoding column" missing period at end of sentence	Fix. Change "Note" to "NOTE" and add colon ":" after "NOTE."	2017/1/9 9:42
4563	Albert Petrick	225	1 28.3.11.8	323	58	T	Y	323.58 28.3.11.8	4347	BCC interleaver explanation needs further clarification. User "u"is reference once in this clause.	Rewrite first paragraph to read with clarity.	2017/1/9 9:42
4564	Albert Petrick	225	1 9.4.2.218.2	77	27	T	Y	77.27 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "TWT Requester Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B1:" in Definition column before the word "Indicates" Add bit "B1:" in Encoding column before the word "Set"	2017/1/9 9:42
4565	Albert Petrick	225	1 9.4.1.64	64	13	E	Y	64.13 9.4.1.64	3437	Remove paragraph indent	Fix paragraph alignment starting at "No padding is present....."	2017/1/9 9:42
4566	Albert Petrick	225	1 28.1.1	210	58	E	Y	210.58 28.1.1	3785	Period missing at end of sentence	Add period at the of sentence after "PPDUs"	2017/1/9 9:42
4567	Albert Petrick	225	1 9.4.2.218.3	82	44	T	Y	82.44 9.4.2.218.3	3474	Table 9-262aa, grammar issue	Change "of" to "on"	2017/1/9 9:42
4568	Albert Petrick	225	1 28.1.1	211	38	E	Y	211.38 28.1.1	3868	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4569	Albert Petrick	225	1 28.3.11.9	327	6	E	Y	327.06 28.3.11.9	4352	Spelling errors	Change text "MCS 1" to "MCS1" Change text "MCS 3" to "MCS3" Change text "MCS 4" to "MCS4"	2017/1/9 9:42
4570	Albert Petrick	225	1 9.4.1.64	64	18	T	Y	64.18 9.4.1.64	3439	Equation (9-2) is referenced in the text and in Table 9-76f HE MU Exclusive Beamforming Report information, and is not linked or referenced to any other documents. Equation (9-2) should be linked and referenced to its location IEEE 802.11-2016 (Rev D8.0) and clarified as a "Note" at the end of Table 9-76f.	Add note for equation 9-2 in text and/or add the following underlined text (without the underline) and reference link in Table 9-76f as a Note: "as defined in Equation (9-2) in clause 9.4.1.51 (MU Exclusive Beamforming Report Field)"	2017/1/9 9:42
4571	Albert Petrick	225	1 9.4.2.218.2	77	33	T	Y	77.33 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "TWT Responder Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B2:" in Definition column before the word "Indicates" Add bit "B2:" in Encoding column before the word "Set"	2017/1/9 9:42
4572	Albert Petrick	225	1 9.4.2.218.3	82	47	E	Y	82.47 9.4.2.218.3	3476	Table 9-262aa, "Definition column" missing period at end of sentence and line between paragraphs	Fix. In the Definition column Add period "." after "punctured." and carriage return before B9, B10, and B11 on lines 47, 51, and 56. On line 60 add period after "is present."	2017/1/9 9:42
4573	Albert Petrick	225	1 28.3.11.10	327	58	E	Y	327.58 28.3.11.10	4357	Grammar error	Remove "as"	2017/1/9 9:42
4574	Albert Petrick	225	1 9.4.1.64	64	30	T	Y	64.30 9.4.1.64	3440	Equation (9-2) reference in Table 9-76f calls out subcarrier k=scidx(0) and k=scidx(1). Equation 9-2 in IEEE 802.11-2016 (Rev D8.0) in clause 9.4.1.51 specifies k=sscidx(0) and k=sscidx(1) There appears to be an ambiguity in equation in 9-2 and with k=scidx(_)	Fix references for subcarrier k=scidx(0) and k=scidx(1) in Table 9-76f (lines 30-54) to match assumptions with equation 9-2 in clause 9.4.1.51 in IEEE 802.11-2016 (Rev D8.0)	2017/1/9 9:42
4575	Albert Petrick	225	1 9.4.2.218.2	77	38	T	Y	77.38 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Fragmentation Support" corresponding to those bit positions in Figure 9-589ck.	Add bits "B3-B4:" in Definition column before the word "Indicates" Add bits "B3-B4:" in Encoding column before the word "Set"	2017/1/9 9:42
4576	Albert Petrick	225	1 9.4.2.218.3	93	25	E	Y	93.25 9.4.2.218.3	3479	Table 9-262aa, missing period at the end of sentence	Fix. In the "Definition column", Add period "." after the "duration" on lines 25 and 29.	2017/1/9 9:42
4577	Albert Petrick	225	1 28.3.11.11	328	57	E	Y	328.57 28.3.11.11	4363	Equation 28-96 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4578	Albert Petrick	225	1 28.1.1	210	64	E	Y	210.64 28.1.1	3792	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
4579	Albert Petrick	225	1 28.1.1	211	41	E	Y	211.41 28.1.1	3875	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4580	Albert Petrick	225	1 28.4.2	371	36	T	Y	371.36 28.4.2	3441	Clarify "aSignalExtension" referenced from Table 19-25	Add the following underlined text (without the underline): and is aSignalExtension (0us for 5 GHz band, 6us for 2.4 GHz band)	2017/1/9 9:42

4581	Albert Petrick	225	1 9.4.2.218.2	77	54	T	Y	77.54 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Maximum number of Fragmented MSDUs" corresponding to those bit positions in Figure 9-589ck.	Add bits "B5-B7:" in Definition column before the word "Indicates" Add bits "B5-B7:" in Encoding column before the word "The"	2017/1/9 9:42
4582	Albert Petrick	225	1 9.4.2.218.3	83	34	E	Y	83.34 9.4.2.218.3	3481	Table 9-262aa, missing period and colon in sentence.	Fix. In the "Definition column, Add period "." after the "stream" on lines 35 and 39. In Encoding column Add ":" after B18 on line 34 and B19 on line 37.	2017/1/9 9:42
4583	Albert Petrick	225	1 28.3.11.11	329	30	E	Y	329.30 28.3.11.11	4366	Equation 28-97 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4584	Albert Petrick	225	1 28.1.1	210	64	T	Y	210.64 28.1.1	3795	Bandwidth should be specific to 20 MHz channels	Add the word "channel" before "bandwidth"	2017/1/9 9:42
4585	Albert Petrick	225	1 28.4.2	371	39	E	Y	371.39 28.4.2	3443	Missing period	Add period at the end of sentence after "false"	2017/1/9 9:42
4586	Albert Petrick	225	1 9.4.2.218.2	78	54	T	Y	78.54 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Minimum Fragment Size" corresponding to those bit positions in Figure 9-589ck.	Add bits "B8-B9:" in Definition column before the word "Indicates" Add bits "B8-B9:" in Encoding column before the word "Set"	2017/1/9 9:42
4587	Albert Petrick	225	1 9.2.5.2	32	1	E	Y	32.01 9.2.5.2	3444	Format error - sentence alignment	Sentence format needs to be left justified.	2017/1/9 9:42
4588	Albert Petrick	225	1 9.4.2.218.2	78	13	T	Y	78.13 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Trigger Frame MAC Padding Duration" corresponding to those bit positions in Figure 9-589ck.	Add bits "B10-B11:" in Definition column before the word "Indicates" Add bits "B10-B11:" in Encoding column before the word "Set"	2017/1/9 9:42
4589	Albert Petrick	225	1 28.1.1	211	42	E	Y	211.42 28.1.1	3880	Period missing at end of sentence	Add period at the of sentence after "puncturing"	2017/1/9 9:42
4590	Albert Petrick	225	1 9.4.2.218.3	83	40	E	Y	83.40 9.4.2.218.3	3484	Table 9-262aa, missing period and colon in sentence.	In the Definition column, Add colon ":" after B20 and B21. Add period after "procedure." on lines 41 and 43. In Encoding column Add colon after B20 on line 40 and B21 on line 43. Add extra line space between lines 41 and 42.	2017/1/9 9:42
4591	Albert Petrick	225	1 9.3.1.9.1	34	12	T	Y	34.12 9.3.1.9.1	3446	In Figure 9-33 (BA Control Field) B8 (BS) in the Reserve sub-field is marked as deleted (strikethrough) as shown. The Reserved subfield now shows 7-bits (B6-B11). The text does not describe B5. Define B5 or correct Figure 9-33	Fix as commented	2017/1/9 9:42
4592	Albert Petrick	225	1 28.3.11.11	329	39	E	Y	329.39 28.3.11.11	4374	Equation 28-97 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4593	Albert Petrick	225	1 9.4.2.218.2	78	20	T	Y	78.20 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Multi-TID Aggregation Support" corresponding to those bit positions in Figure 9-589ck.	Add bits "B12-B14:" in Definition column before the word "Indicates" Add bits "B12-B14:" in Encoding column before the word "Set"	2017/1/9 9:42
4594	Albert Petrick	225	1 28.1.1	211	5	E	Y	211.05 28.1.1	3800	Period missing at end of sentence	Add period at the of sentence after "20 MHz"	2017/1/9 9:42
4595	Albert Petrick	225	1 9.4.2.218.3	83	58	E	Y	83.58 9.4.2.218.3	3486	Table 9-262aa, missing period at the end of sentence.	Add period after "MU-MIMO" on line 58.	2017/1/9 9:42
4596	Albert Petrick	225	1 B.4.27.2	413	45	E	Y	413.45 B.4.27.2	3447	Numbering / letter (5GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "5GHz" to "5 GHz"	2017/1/9 9:42
4597	Albert Petrick	225	1 28.3.12	338	4	E	Y	338.04 28.3.12	4377	Figure 29-35 to small to read or print	Redraw figure use larger text font and align across page	2017/1/9 9:42
4598	Albert Petrick	225	1 9.4.2.218.2	78	27	T	Y	78.27 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "HE Link Adaptation" corresponding to those bit positions in Figure 9-589ck.	Add bits "B15-B16:" in Definition column before the word "Indicates" Add bits "B15-B16:" in Encoding column before the word "If"	2017/1/9 9:42
4599	Albert Petrick	225	1 9.4.2.218.3	82	11	T	Y	82.11 9.4.2.218.3	3488	Add clarity and call out bit position in Table 9-262aa for subfield "Dual Band Support" corresponding to those bit positions in Figure 9-589cl	Add bit B0 in Definition column Change to: "B0 indicates support of both...."	2017/1/9 9:42
4600	Albert Petrick	225	1 9.3.1.23	45	6	E	Y	45.06 9.3.1.23	3449	Number / letter (2.4GHz) spacing issue in Table B.4.27.2 HEW PHY features	Change "2.4GHz" to "2.4 GHz"	2017/1/9 9:42
4601	Albert Petrick	225	1 28.1.1	211	47	E	Y	211.47 28.1.1	3888	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4602	Albert Petrick	225	1 9.4.2.218.2	78	38	T	Y	78.38 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "All Ack Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B17:" in Definition column before the word "Indicates" Add bits "B17:" in Encoding column before the word "Set"	2017/1/9 9:42
4603	Albert Petrick	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3	3490	Add clarity and call out bit position in Table 9-262aa for subfield "UL HE MU PPDU Payload Support" corresponding to those bit positions in Figure 9-589cl	Add bit B30 in Definition column Change to: "B30 indicates that the STA supports the reception of....."	2017/1/9 9:42
4604	Albert Petrick	225	1 28.1.1	211	8	E	Y	211.08 28.1.1	3807	Period missing at end of sentence	Add period at the of sentence after "PPDU"	2017/1/9 9:42

4605 Albert Petrick	225	1 9.4.2.218.2	78	43	T	Y	78.43 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "UL MU Response Scheduling Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B18:" in Definition column before the word "Indicates" Add bits "B18:" in Encoding column before the word "If"		2017/1/9 9:42
4606 Albert Petrick	225	1 9.4.2.218.3	84	31	T	Y	84.31 9.4.2.218.3	3492	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B31 in Definition column Change to: "B31 indicates support for operation as an SU beamformer."		2017/1/9 9:42
4607 Albert Petrick	225	1 28.3.12	338	43	E	Y	338.43 28.3.12	3243	Figure 28-35 to small to read or print	Redraw figure use larger text font and align across page		2017/1/9 9:42
4608 Albert Petrick	225	1 9.4.2.218.2	76	24	E	Y	76.24 9.4.2.218.2	3450	Format error - sentence alignment	Fix paragraph alignment - left justify.		2017/1/9 9:42
4609 Albert Petrick	225	1 9.4.2.218.2	78	49	T	Y	78.49 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "A-BSR Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B19:" in Definition column before the word "Indicates" Add bits "B19:" in Encoding column before the word "If"		2017/1/9 9:42
4610 Albert Petrick	225	1 28.1.1	211	50	E	Y	211.50 28.1.1	3895	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"		2017/1/9 9:42
4611 Albert Petrick	225	1 28.3.12	338	50	E	Y	338.50 28.3.12	3245	Equation 28-114 brackets cutoff	Resize font of brackets and vertically center between paragraphs		2017/1/9 9:42
4612 Albert Petrick	225	1 9.4.2.218.3	84	36	T	Y	84.36 9.4.2.218.3	3494	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformee" corresponding to those bit positions in Figure 9-589cl	Add bit B32 in Definition column Change to: "B32 indicates support for operation as an SU beamformee."		2017/1/9 9:42
4613 Albert Petrick	225	1 9.4.2.218.3	81	35	E	Y	81.35 9.4.2.218.3	3453	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield NSTA Total For < 80 MHz is labeled as having 2-bits. There are 3-bits (B37 -B39).	Change Bits "2" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9m-589cl		2017/1/9 9:42
4614 Albert Petrick	225	1 9.4.2.218.2	78	58	T	Y	78.58 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Broadcast TWT Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B20:" in Definition column before the word "Indicates" Add bits "B20:" in Encoding column before the word "Set"		2017/1/9 9:42
4615 Albert Petrick	225	1 28.1.1	211	9	E	Y	211.09 28.1.1	3813	Period missing at end of sentence	Add period at the of sentence after "receive)"		2017/1/9 9:42
4616 Albert Petrick	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	3496	Add clarity and call out bit position in Table 9-262aa for subfield "MU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B33 in Definition column Change to: "B33 indicates support for operation as an MU beamformer."		2017/1/9 9:42
4617 Albert Petrick	225	1 9.4.2.218.3	81	35	T	Y	81.35 9.4.2.218.3	3455	In Figure 9-589cl - (HE PHY Capabilities Information field format) subfield "Number Of Sounding Dimensions For < 80 MHz" is mark as having 1-bit. There are 3-bits (B46 -B48).	Change Bits "1" to "3" for subfield "NSTS Total for < 80 MHz" in Figure 9-589cl		2017/1/9 9:42
4618 Albert Petrick	225	1 9.4.2.218.2	79	4	T	Y	79.04 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "32-bit BA Bitmap Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B21:" in Definition column before the word "Indicates" Add bits "B21:" in Encoding column before the word "Set"		2017/1/9 9:42
4619 Albert Petrick	225	1 9.4.2.218.2	79	34	T	Y	79.34 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "OFDMA RA Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B26:" in Definition column before the word "Indicates" Add bits "B26:" in Encoding column before the word "Set"		2017/1/9 9:42
4620 Albert Petrick	225	1 9.4.2.218.3	85	22	E	Y	85.22 9.4.2.218.3	3509	Missing period at end of sentence in Definition column of Table 9-262aa.	Add period at the end of sentence "HE NDP"		2017/1/9 9:42
4621 Albert Petrick	225	1 28.3.12	338	62	E	Y	338.62 28.3.12	4388	Equation 28-116 brackets cutoff	Resize font of brackets and vertically center between paragraphs		2017/1/9 9:42
4622 Albert Petrick	225	1 28.1.1	212	2	E	Y	212.02 28.1.1	3915	Period missing at end of sentence	Add period at the of sentence after "receive)"		2017/1/9 9:42
4623 Albert Petrick	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Maximum A-MPDU Length Exponent" corresponding to those bit positions in Figure 9-589ck.	Add bits "B27-B28:" in Definition column Add bits "B27-B28:" in Encoding column		2017/1/9 9:42
4624 Albert Petrick	225	1 9.4.2.218.3	85	26	T	Y	85.26 9.4.2.218.3	3511	Add clarity and call out bit positions in Table 9-262aa for subfield "Number Of Sounding Dimensions For > 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B48-B51 in Definition column Change to: "B49-B51 represents the beamformer's capability.....for an HE NDP."		2017/1/9 9:42
4625 Albert Petrick	225	1 28.1.1	211	18	E	Y	211.18 28.1.1	3829	Period missing at end of sentence	Add period at the of sentence after "streams"		2017/1/9 9:42
4626 Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3465	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.		2017/1/9 9:42
4627 Albert Petrick	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2		Table 9-262z subfield "Maximum A-MPDU Length Exponent" not defined in Definition and Encoding columns of Table 9-262z	Add definition and Definition and Encoding columns		2017/1/9 9:42

4628	Albert Petrick	225	1 9.4.2.218.2	79	47	T	Y	79.47 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "A-MSDU Fragmentation Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B29:" in Definition column before the word "The" Add bits "B29:" in Encoding column before the word "Set"	2017/1/9 9:42
4629	Albert Petrick	225	1 28.3.12	149	53	E	Y	149.53 28.3.12	4397	Period missing at end of sentence	Add period at the of sentence after "false"	2017/1/9 9:42
4630	Albert Petrick	225	1 28.1.1	212	9	E	Y	212.09 28.1.1	3923	Period missing at end of sentence	Add period at the of sentence after "bandwidth"	2017/1/9 9:42
4631	Albert Petrick	225	1 9.4.2.218.3	85	28	E	Y	85.28 9.4.2.218.3	3514	Missing period at end of sentence in Definition column of Table 9-262aa.	Fix. Add period at the end of sentence "HE NDP."	2017/1/9 9:42
4632	Albert Petrick	225	1 28.1.1	211	21	E	Y	211.21 28.1.1	3835	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4633	Albert Petrick	225	1 9.4.2.218.2	79	52	T	Y	79.52 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Flexible TWT Schedule Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B30:" in Definition column before the word "Indicates" Add bits "B30:" in Encoding column before the word "Set"	2017/1/9 9:42
4634	Albert Petrick	225	1 9.4.2.218.3	82	20	E	Y	82.20 9.4.2.218.3	3468	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
4635	Albert Petrick	225	1 9.4.2.218.3	85	29	E	Y	85.29 9.4.2.218.3	3516	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
4636	Albert Petrick	225	1 9.4.2.218.2	79	57	T	Y	79.57 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Rx Control Frame to MultiBss" corresponding to those bit positions in Figure 9-589ck.	Add bit "B31:" in Definition column before the word "Indicates" Add bits "B31:" in Encoding column before the word "Set"	2017/1/9 9:42
4637	Albert Petrick	225	1 28.3.12	340	3	E	Y	340.03 28.3.12	4405	Equation 28-117 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4638	Albert Petrick	225	1 28.1.1	212	14	E	Y	212.14 28.1.1	3929	Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42
4639	Albert Petrick	225	1 9.4.2.218.2	80	4	T	Y	80.04 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "BSRP A-MPDU Aggregation" corresponding to those bit positions in Figure 9-589ck.	Add bit "B32:" in Definition column before the word "Indicates" Add bits "B32:" in Encoding column before the word "Set"	2017/1/9 9:42
4640	Albert Petrick	225	1 28.1.1	211	26	E	Y	211.26 28.1.1	3841	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4641	Albert Petrick	225	1 28.3.13	340	38	E	Y	340.38 28.3.13	4411	Misaligned paragraph	Left justify	2017/1/9 9:42
4642	Albert Petrick	225	1 9.4.2.218.3	82	23	E	Y	82.23 9.4.2.218.3	3471	Table 9-262aa, "Definition column" missing period at end of sentence	Fix. Add period after 5 GHz.	2017/1/9 9:42
4643	Albert Petrick	225	1 9.4.2.218.3	85	24	E	Y	85.24 9.4.2.218.3	3520	Missing period at end of sentence in Encoding column in Table 9-262aa.	Add period at the end of sentence "reserved."	2017/1/9 9:42
4644	Albert Petrick	225	1 9.4.2.218.2	80	10	T	Y	80.10 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "QTP Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B33:" in Definition column before the word "The" Add bits "B33:" in Encoding column before the word "If"	2017/1/9 9:42
4645	Albert Petrick	225	1 9.3.1.23	47	56	E	Y	47.56 9.3.1.23	4414	Equation 9-ax1 brackets cutoff	Resize font of brackets and vertically center between paragraphs	2017/1/9 9:42
4646	Albert Petrick	225	1 9.4.2.218.3	82	18	E	Y	82.18 9.4.2.218.3	3472	Table 9-262aa, "Encoding column" missing period at end of sentence	Fix. Change "Nole" to "NOTE" and add colon ":" after "NOTE:"	2017/1/9 9:42
4647	Albert Petrick	225	1 9.4.2.218.3	85	31	T	Y	85.31 9.4.2.218.3	3522	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For SU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B52 in Definition column Change to: "B52 indicates if the HE beamformee...."	2017/1/9 9:42
4648	Albert Petrick	225	1 9.4.2.218.2	80	16	T	Y	80.16 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "A-BQR Support" corresponding to those bit positions in Figure 9-589ck.	Add bit "B34:" in Definition column before the word "Indicates" Add bits "B34:" in Encoding column before the word "If"	2017/1/9 9:42
4649	Albert Petrick	225	1 28.1.1	212	17	E	Y	212.17 28.1.1	3936	Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
4650	Albert Petrick	225	1 9.3.1.23	47	5	E	Y	47.05 9.3.1.23	4418	Equation 9-ax2 brackets cutoff	Resize font of brackets and vertically center between paraphs	2017/1/9 9:42
4651	Albert Petrick	225	1 9.4.2.218.3	82	44	T	Y	82.44 9.4.2.218.3	3474	Table 9-262aa, grammar issue	Change "of" to "on"	2017/1/9 9:42
4652	Albert Petrick	225	1 9.4.2.218.3	85	35	T	Y	85.35 9.4.2.218.3	3524	Add clarity and call out bit positions in Table 9-262aa for subfield "Ng = 16 For MU Feedback Support" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bit B53 in Definition column Change to: "B53 indicates if the HE beamformee...."	2017/1/9 9:42
4653	Albert Petrick	225	1 28.1.1	211	29	E	Y	211.29 28.1.1	3847	Period missing at end of sentence	Add period at the of sentence after "MIMO)"	2017/1/9 9:42
4654	Albert Petrick	225	1 9.4.2.218.2	80	24	T	Y	80.24 9.4.2.218.2		Add clarity and call out bit position in Table 9-262z for subfield "Reserved" corresponding to those bit positions in Figure 9-589ck.	Add bit "B35-B39: are Reserved" in Definition column Add bits "B35-B39: are Reserved" in Encoding column.	2017/1/9 9:42
4655	Albert Petrick	225	1 9.4.1.63	58	9	E	Y	58.09 9.4.1.63	4423	Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42

4656	Albert Petrick	225	1 9.4.2.218.3	82	47	E	Y	82.47 9.4.2.218.3	3476	Table 9-262aa, "Definition column" missing period at end of sentence and line between paragraphs	Fix. In the Definition column Add period "." after "punctured." and carriage return before B9, B10, and B11 on lines 47, 51, and 56. On line 60 add period after "is present."	2017/1/9 9:42
4657	Albert Petrick	225	1 9.4.2.218.3	85	37	E	Y	85.37 9.4.2.218.3	3526	In Table 9-262aa missing period at the end of sentence.	Add period after "MU-type feedback."	2017/1/9 9:42
4658	Albert Petrick	225	1 9.4.2.218.2	80	24	T	Y	80.24 9.4.2.218.2		Missing row for Reserved subfield in Table 9-262z	Add row for "Reserved" subfield	2017/1/9 9:42
4659	Albert Petrick	225	1 28.1.1	212	19	E	Y	212.19 28.1.1	3943	Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
4660	Albert Petrick	225	1 9.4.2.218.3	85	39	T	Y	85.39 9.4.2.218.3	3528	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (i%z, i%D) = {4, 2} For SU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B54 in Definition column Change to: "B54 indicates if the HE beamformee....."	2017/1/9 9:42
4661	Albert Petrick	225	1 9.4.2.218.3	93	25	E	Y	93.25 9.4.2.218.3	3479	Table 9-262aa, missing period at the end of sentence	Fix. In the "Definition column", Add period "." after the "duration" on lines 25 and 29.	2017/1/9 9:42
4662	Albert Petrick	225	1 CAdocument	1		E	Y	1.00 CAdocument		In "Abstract" abbreviation missing for "coexistence assurance"	In "Abstract" clause, Add underlined text (without the underline) in the following sentence. "This serves as the coexistence assurance (CA) document for TGax in meeting the requirement of the CSD."	2017/1/9 9:42
4663	Albert Petrick	225	1 28.1.1	211	32	E	Y	211.32 28.1.1	3854	Period missing at end of sentence	Add period at the of sentence after "OFDMA)"	2017/1/9 9:42
4664	Albert Petrick	225	1 9.4.2.218.3	85	44	T	Y	85.44 9.4.2.218.3	3530	Add clarity and call out bit positions in Table 9-262aa for subfield "Codebook Size (i%z, i%D) = {7,5} For MU Support" corresponding to those bit positions in Figure 9-589cl.	Add bit B55 in Definition column Change to: "B55 indicates if the HE beamformee....."	2017/1/9 9:42
4665	Albert Petrick	225	1 9.4.2.218.3	83	34	E	Y	83.34 9.4.2.218.3	3481	Table 9-262aa, missing period and colon in sentence.	Fix. In the "Definition column, Add period "." after the "stream" on lines 35 and 39. In Encoding column Add ":" after B18 on line 34 and B19 on line 37.	2017/1/9 9:42
4666	Albert Petrick	225	1 9.4.1.63	58	22	E	Y	58.22 9.4.1.63	4432	Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42
4667	Albert Petrick	225	1 CAdocument	2		E	Y	2.00 CAdocument		Period missing at end of sentence in clause "1 Introduction"	In clause "1 Introduction" under the sub-bullet "CSD", add period " . " at the end of sentence.	2017/1/9 9:42
4668	Albert Petrick	225	1 9.4.2.218.3	85	50	E	Y	85.50 9.4.2.218.3	3532	In Table 9-262aa, Missing periods and line spacing between sentences.	In the "Definition" column, Add period at the end of sentences e.i., after "feedback." on lines 50, 52, 54, 57, 59 and 61. Add line space carriage return after "feedback on lines 50, 52, 54, 57 and 59. In "Encoding" column, Add line spacing carriage return after "otherwise." on line 55.	2017/1/9 9:42
4669	Albert Petrick	225	1 28.1.1	212	22	E	Y	212.22 28.1.1	3950	Period missing at end of sentence	Add period at the of sentence after "capable"	2017/1/9 9:42
4670	Albert Petrick	225	1 CAdocument	2		T	Y	2.00 CAdocument		In clause "3 Coexistence with non-802.11 systems" Reference to contiguous and noncontiguous channel bandwidths should be added before secondary channel discussion.	In clause "3 Coexistence with non-802.11 systems" before the sentence starting with "According to 802.11ac 22.3.20.5 [4]. ....." Add the following sentence: "802.11ac and 802.11ax provides support for 20MHz, 40 MHz, 80 MHz and 160 MHz contiguous channel bandwidths and for 80+80 MHz noncontiguous channel bandwidths."	2017/1/9 9:42
4671	Albert Petrick	225	1 9.4.2.218.3	86	6	T	Y	86.06 9.4.2.218.3	3534	Add clarity and call out bit position in Table 9-262aa for subfield "HE ER SU Payload" corresponding to those bit positions in Figure 9-589cl.	Add bit B59 in Definition column Change to: "B59: indicates the support of transmission....."	2017/1/9 9:42
4672	Albert Petrick	225	1 28.1.1	211	34	E	Y	211.34 28.1.1	3859	Period missing at end of sentence	Add period at the of sentence after "PPDU"	2017/1/9 9:42
4673	Albert Petrick	225	1 9.4.2.218.3	83	40	E	Y	83.40 9.4.2.218.3	3484	Table 9-262aa, missing period and colon in sentence.	In the Definition column, Add colon ":" after B20 and B21. Add period after "procedure." on lines 41 and 43. In Encoding column Add colon after B20 on line 40 and B21 on line 43. Add extra line space between lines 41 and 42.	2017/1/9 9:42

4674	Albert Petrick	225	1 CAdocument	2		T	Y	2.00 CAdocument		In clause "3 Coexistence with non-802.11 systems" a reference if made to sub-clause 22.3.30.5 [4] IEEE Std 802.11ac-2013. There is no such sub-clause in 802.11ac-2013.	In the following sentence, "According to 802.11ac 22.3.20.5 [4], a PHY must set its CCA indication to busy as follows:" add the correct sub-clause reference and include the subclause title	2017/1/9 9:42
4675	Albert Petrick	225	1 9.4.1.63	58	30	E	Y	58.30 9.4.1.63	4442	Extra paragraph line space	Remove line space between paragraph	2017/1/9 9:42
4676	Albert Petrick	225	1 9.4.2.218.3	86	11	T	Y	86.11 9.4.2.218.3	3536	Add clarity and call out bit position in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" corresponding to those bit positions in Figure 9-589cl.	Add bit B60 in Definition column Change to: "B60: indicates the non-AP STA supports....."	2017/1/9 9:42
4677	Albert Petrick	225	1 9.4.2.218.3	83	58	E	Y	83.58 9.4.2.218.3	3486	Table 9-262aa, missing period at the end of sentence.	Add period after "MU-MIMO" on line 58.	2017/1/9 9:42
4678	Albert Petrick	225	1 CAdocument	3		T	Y	3.00 CAdocument		In clause "5.2 Spatial Reuse", has a grammar issue and reference to 20 MHz and 40 MHz should reference "channel bandwidths for more clarity.	In clause "3 Coexistence with non-802.11 systems" Add underlined text (without the underline) and remove strikethrough text in the last sentence of the this clause as follows: "For 2.4 GHz, we refer to 20.3.21.4 [5] (which corresponds to 802.11n), which corresponds to the same rules for 20 and 40 MHz channel bandwidths described in the paragraph above."	2017/1/9 9:42
4679	Albert Petrick	225	1 9.4.2.218.3	86	14	T	Y	86.14 9.4.2.218.3	3538	Add clarity and call out a "Note" reference in Table 9-262aa for subfield "DL MU-MIMO on Partial BW" in the Encoding column.	Add change to read: "Note: This field is reserved for an AP."	2017/1/9 9:42
4680	Albert Petrick	225	1 28.1.1	212	27	E	Y	212.27 28.1.1	3956	Period missing at end of sentence	Add period at the of sentence after "applicable"	2017/1/9 9:42
4681	Albert Petrick	225	1 9.4.2.218.3	82	11	T	Y	82.11 9.4.2.218.3	3488	Add clarity and call out bit position in Table 9-262aa for subfield "Dual Band Support" corresponding to those bit positions in Figure 9-589cl	Add bit B0 in Definition column Change to: "B0 indicates support of both...."	2017/1/9 9:42
4682	Albert Petrick	225	1 28.1.1	211	38	E	Y	211.38 28.1.1	3868	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4683	Albert Petrick	225	1 CAdocument	3		T	Y	3.00 CAdocument		Clause "5.2 Spatial Reuse": coexistence with this mode of operation needs to be consistent with technical draft .11axD1.0 clause 27.9 (Spatial reuse operation) In .11axD1.0, Table 28-17 makes reference to Spatial Reuse section needing more development.	Update as commented	2017/1/9 9:42
4684	Albert Petrick	225	1 9.4.2.218.3	86	16	T	Y	86.16 9.4.2.218.3	3540	Add clarity and call out bit position in Table 9-262aa for subfield "PPE Threshold Present" corresponding to those bit position in Figure 9-589cl.	Add bit B61 in Definition column Change to: "B61: indicates whether or no the PPE....."	2017/1/9 9:42
4685	Albert Petrick	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3	3490	Add clarity and call out bit position in Table 9-262aa for subfield "UL HE MU PPDU Payload Support" corresponding to those bit positions in Figure 9-589cl	Add bit B30 in Definition column Change to: "B30 indicates that the STA supports the reception of....."	2017/1/9 9:42
4686	Albert Petrick	225	1 9.4.2.6	68	60	E	Y	68.60 9.4.2.6	4452	Period missing at end of sentence	Add period at the of sentence after "reserved"	2017/1/9 9:42
4687	Albert Petrick	225	1 CAdocument	3		E	Y	3.00 CAdocument		Grammar issues in clause "5.4 New OFDM Waveform Design"	In clause "5.4 New OFDM Waveform Design": Add underlined text (without the underline) and remove strikethrough text from paragraph as follows: "In 802.11n (in 2.4 GHz) and 802.11n/ac (in 5 GHz) the 20 MHz channelization uses a 64pt FFT with edge tones at +/-28. In 802.11ax (in both 2.4 and 5 GHz) the 20 MHz channelization uses a 256pt FFT with edge tones at +/-122. More spectrum is occupied within the channel bandwidth with the new 802.11ax OFDM waveform design. That said, due Due to the narrower subcarrier spacing (312.5 kHz for 802.11n/ac vs 78.125 kHz for 802.11ax), the spectral rolloff for 802.11ax will be sharper and will result is yield less out-of-band emissions beyond +/- 11 MHz as shown in (see the figure below).	2017/1/9 9:42

4688	Albert Petrick	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3	3542	Add clarity and call out bit position in Table 9-262aa for subfield "SRP-based SR Support" corresponding to those bit position in Figure 9-589cl.	Add bit B62 in Definition column Change to: "B62: indicates that the STA supports SRP-based....."	2017/1/9 9:42
4689	Albert Petrick	225	1 9.4.2.218.3	84	31	T	Y	84.31 9.4.2.218.3	3492	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B31 in Definition column Change to: "B31 indicates support for operation as an SU beamformer."	2017/1/9 9:42
4690	Albert Petrick	225	1 28.1.1	212	35	E	Y	212.35 28.1.1	3962	Period missing at end of sentence	Add period at the of sentence after "least 4"	2017/1/9 9:42
4691	Albert Petrick	225	1 CAdocument	4		T	Y	4.00 CAdocument		In clause "5.4 New OFDM Waveform Design": Reference is made spectral rolloff between .11a/g, .11n /ac and .11ax for 20 MHz channel bandwidth. There is no reference or discussion where figure and plot (s) originated e.i., 802.11 documents, drafts, simulations etc.	Add reference to documents where plots originated and text (short description of plots).	2017/1/9 9:42
4692	Albert Petrick	225	1 9.4.2.218.3	86	19	E	Y	86.19 9.4.2.218.3	3544	In Table 9-262aa, missing period after sentence.	Add period "." at the end of sentence after "operation."	2017/1/9 9:42
4693	Albert Petrick	225	1 28.1.1	211	41	E	Y	211.41 28.1.1	3875	Period missing at end of sentence	Add period at the of sentence after "receive)"	2017/1/9 9:42
4694	Albert Petrick	225	1 9.4.2.218.3	84	36	T	Y	84.36 9.4.2.218.3	3494	Add clarity and call out bit position in Table 9-262aa for subfield "SU Beamformee" corresponding to those bit positions in Figure 9-589cl	Add bit B32 in Definition column Change to: "B32 indicates support for operation as an SU beamformee."	2017/1/9 9:42
4695	Albert Petrick	225	1 CAdocument	3		E	Y	3.00 CAdocument		In clause "6 Definitions": There are missing periods at the end of the sentences	Add period " . " at the end of the sentences after the word "next" and after the word "protection"	2017/1/9 9:42
4696	Albert Petrick	225	1 9.4.2.218.3	86	21	T	Y	86.21 9.4.2.218.3	3546	Add clarity and call out bit position in Table 9-262aa for subfeld "Power Boost Factor +?r Support" corresponding to those bit position in Figure 9-589cl.	Add bit B63 in Definition column Change to: "B63: indicates that the STA supports....."	2017/1/9 9:42
4697	Albert Petrick	225	1 9.4.2.6	68	62	E	Y	68.62 9.4.2.6	4460	Period missing at end of sentence	Add period at the of sentence after "reserved"	2017/1/9 9:42
4698	Albert Petrick	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	3496	Add clarity and call out bit position in Table 9-262aa for subfield "MU Beamformer" corresponding to those bit positions in Figure 9-589cl	Add bit B33 in Definition column Change to: "B33 indicates support for operation as an MU beamformer."	2017/1/9 9:42
4699	Albert Petrick	225	1 CAdocument	4		T	Y	4.00 CAdocument		In clause "7 References", reference [1] Draft P802.11axD1.0 has no cross-reference in the body of the text. References [4] IEEE Std 802.11ac-2013 and [5] IEEE 802.11REVmcD8.0 should reference to the IEEE P802.11-2016. In the near future, IEEE 802.11REVmcD8.0 will be removed from the IEEE 802.11 members area of the website. IEEE 802.11REVmcD8.0 is IEEE P802.11-2016.	Site references [4] and [5] to IEEE P802.11-2016. Add a note to reference [1] Draft P802.11axD1.0 (general content reference.)	2017/1/9 9:42
4700	Albert Petrick	225	1 28.1.1	212	39	E	Y	212.39 28.1.1	3970	Period missing at end of sentence	Add period at the of sentence after "supported"	2017/1/9 9:42
4701	Albert Petrick	225	1 9.4.2.200	69	32	E	Y	69.32 9.4.2.200	4463	Figure 9-589av misaligned	Align figure to fit on page	2017/1/9 9:42
4702	Albert Petrick	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3	3267	Add clarity and call out bit positions in Table 9-262aa for subfield "Beamforemee STS For < 80 MHz" corresponding to those bit positions in Figure 9-589cl. Missing period at the end of sentence.	Add bits B34-B36 in Definition column Change to: "B34-B36 indicates the maximum number of space-time streams the STA can receive in an HE NDP."	2017/1/9 9:42
4703	Albert Petrick	225	1 28.1.1	211	42	E	Y	211.42 28.1.1	3880	Period missing at end of sentence	Add period at the of sentence after "puncturing"	2017/1/9 9:42
4704	Albert Petrick	225	1 9.4.2.218.3	86	22	E	Y	86.22 9.4.2.218.3	3548	In Table 9-262aa, missing period after sentence.	Add period at the end of sentence after "range [0.5, 2]."	2017/1/9 9:42
4705	Alfred Asterjadhi	225	1 3.2	4	26	E	Y	4.26 3.2		Underline is missing	Add underline to the paragraph of item j)	2017/1/9 9:42
4706	Alfred Asterjadhi	225	1 3.2	6	22	E	Y	6.22 3.2		VHT is already defined in the first sentence of this definition, so "very high throughput" is redundant here. There are a couple of places where this occurs throughout the subclause as indicated in the proposed change.	In page/lines 6/22, 6/26, remove "very high throughput", "non-high throughput", and the enclosing parenthesis of the subsequent word "VHT", "non-HT", respectively.	2017/1/9 9:42
4707	Alfred Asterjadhi	225	1 3.2	6	45	E	Y	6.45 3.2		This definition applies to both HE and VHT. Remove VHT from VHT STA.	As in comment.	2017/1/9 9:42

4708	Alfred Asterjadhi	225	1 3.2	6	50	T	Y	6.50 3.2	Some issues with this definition: 1) Replace first occurrence of "BSS" with "basic service set (BSS)", replace "PHY modes", with "physical layer (PHY) protocol data unit (PPDU)", replace "efficient" with "efficiency", replace "HE extended range PHY" with "HE extended range single user (ER SU) PPDU" , replace "HE_EXT_SU PHY format" with "HE ER SU PPDU", and replace "non-HE" with "non-HT". Also "in the whole BSS coverage" is arguable. Even when the AP does not use ER SU PPDUs for Beacons the legacy beacon covers the "whole BSS". It is a matter of perspective. Perhaps better to say, expanding the BSS coverage or something like that.	As in comment.		2017/1/9 9:42
4709	Alfred Asterjadhi	225	1 3.2	6	55	E	Y	6.55 3.2	Replace "HE" with "high efficiency (HE)".	As in comment.		2017/1/9 9:42
4710	Alfred Asterjadhi	225	1 3.4	7	11	T	Y	7.11 3.4	OBO is not OFDMA backoff, but OFDMA random access backoff, Find a fancy acronym that reflects it. Same observation with OCW. Apply it throughout.	As in comment.		2017/1/9 9:42
4711	Alfred Asterjadhi	225	1 3.4	7	18	E	Y	7.18 3.4	Only MU RTS is listed in the list of acronyms. Either of the two options is fine: Either remove MU RTS, or keep it and add the other trigger variants.	As in comment.		2017/1/9 9:42
4712	Alfred Asterjadhi	225	1 4.3.14a	9	20	E	Y	9.20 4.3.14a	These two items can be merged into one: "An HE non-AP STA is also a VHT non-AP STA except when the STA supports only 20 MHz channel width. Also in P9L26 the second item is not needed as an HT non-AP STA can be a 20 Mhz so it is covered by the first item.	As in comment.		2017/1/9 9:42
4713	Alfred Asterjadhi	225	1 4.3.14a	9		T	Y	9.00 4.3.14a	These items whether are main or not is subjective at this point and maybe not correct. E.g., dynamic fragmentation level 0 is actually no fragmentation (highly a new MAC feature).	As in comment.		2017/1/9 9:42
4714	Alfred Asterjadhi	225	1 4.3.14a	9	60	T	Y	9.60 4.3.14a	This paragraph is very partial. Depending on the purpose of it, either expand it to cover the case being discussed correctly or remove it.	As in comment.		2017/1/9 9:42
4715	Alfred Asterjadhi	225	1 8.3.5.2.2	15	35	T	Y	15.35 8.3.5.2.2	There are two cases HE DL MU PPDU and HE UL MU PPDU. This statement applies to the DL MU PPDU, while for the UL MU PPDU it is the transmitter identifier. Also it is not really an index of the user (well actually yes) but for consistency specify it as the AID of the user (and add a reference to 27.11.1 (STA_ID_LIST). Similar observation for the next subclause 8.3.5.3.2.	As in comment.		2017/1/9 9:42
4716	Alfred Asterjadhi	225	1 8.3.5.3.2	15	56	T	Y	15.56 8.3.5.3.2	"request" should be "indication". Also need to keep consistency on how we call this PPDU. Maybe define an acronym HE Trigger Based PPDU (HE TB PPDU) and stick with it throughout the draft.	As in comment.		2017/1/9 9:42
4717	Alfred Asterjadhi	225	1 8.3.5.10.3	16	1	T	Y	16.01 8.3.5.10.3	This additional generation is applicable to HE STAs. Also refer to the general spatial reuse subclause rather than to the OBSS-PD pased subclause only.	Replace paragraph with: "This primitive can additionally be generated by the MAC sublayer for the local HE PHY entity when the spatial reuse conditions defined in 27.9 (Spatial Reuse) are met.		2017/1/9 9:42

4718	Alfred Asterjadhi	225	1 8.3.5.12.2	16	15	T	Y	16.15 8.3.5.12.2	The condiitons in this table are becoming too cumbersome. Find a hierarchical way to categorize an HT STA that is not a VHT STA, an HE STA that is not a VHT STA and so on. And itemize the list so that it is clear which STA follows which CCA sections. Also since an HE STA can also be a VHT STA or an HT STA then it needs to be clear which rules are followed and when.	As in comment.		2017/1/9 9:42
4719	Alfred Asterjadhi	225	1 8	15	1	T	Y	15.01 8	There are new features in 11ax that need additional updates to these clause's rules. Namely spatial reuse, preamble puncturig, UL MU, DL MU transmissions, etc.	Ensure that the clause is properly amended so that all the appropriate exceptions for a decent 11ax operatoin are added.		2017/1/9 9:42
4720	Alfred Asterjadhi	225	1 9.2.4.1.3	19	25	T	Y	19.25 9.2.4.1.3	I am aware that ANA is going to determine the assigned subtype value for this field once the LB approval has reached 75%. But the table has the value 0011 striked out, which logically means that the value 0011 would be the one assigned for this purpose. Ask ANA to allocate 0011 for the Subtype value or if ANA does not know yet then find a way that it is clear that the number is not assigned yet. Also we already have the term Trigger defined in REVmc so it would be good to have a unique name that would avoid confusion. It could be as simple as UL Trigger.	As in comment.		2017/1/9 9:42
4721	Alfred Asterjadhi	225	1 9.2.4.1.8	19	35	T	Y	19.35 9.2.4.1.8	There is a bunch of elements that have the QoS Info field, namely QoS Capabilities, EDCA Parameter Set, MU EDCA parameter elements. Add a note so that it is clear where this field is contained, so that it is known what "frames" contain it. Also B7 of the QoS Info field when transmitted by AP is currently reserved. Need to add the exception that for an HE AP that bit is actually the same as the non-AP STA case (More Data Ack).	As in comment.		2017/1/9 9:42
4722	Alfred Asterjadhi	225	1 9.2.4.1.10	19	57	E	Y	19.57 9.2.4.1.10	I see more than "two purposes" below. This sentence was actually modified in 11ah. So please ensure consistency across amendments.	As in comment.		2017/1/9 9:42
4723	Alfred Asterjadhi	225	1 9.2.4.5.4	20	27	T	Y	20.27 9.2.4.5.4	MU Ack name is not completely correct due to the fact that the PPDU is actually called Trigger-based ppdu. So I would suggest to change it TBP Ack or something like that, reflecting the correct intention.	As in comment.		2017/1/9 9:42
4724	Alfred Asterjadhi	225	1 9.2.4.5.4	20	45	T	Y	20.45 9.2.4.5.4	This paragraph can be written better. Rephrase this paragraph as suggested in the proposed change.	"When the frame is carried in a HE DL MU PPDU: The addressed recipient returns an Ack, BlockAck, or Multi-STA BlockAck frame carried in HE TB PPDU, after SIFS, (see 10.3.2.11.2 (Acknowledgement procedure for HE MU PPDU in MU format) and 27.4.4.3 (DL MU PPDU soliciting an HE trigger-based PPDU response)."		2017/1/9 9:42
4725	Alfred Asterjadhi	225	1 9.2.4.6.1	21	60	T	Y	21.60 9.2.4.6.1	Table 9-9a already shows what this paragraph is defining as such it is redundant.	Remove the paragraph in P21L60-65.		2017/1/9 9:42
4726	Alfred Asterjadhi	225	1 9.2.4.6.4.1	22	48	E	Y	22.48 9.2.4.6.4.1	Already defined A-Control in L43. So no need to call it below. Replace "Aggregate Control" with "A-Control" in L48, and in L55.	As in comment.		2017/1/9 9:42

4727	Alfred Asterjadhi	225	1 9.2.4.6.4.1	23	24	T	Y	23.24 9.2.4.6.4.1	Add acronyms for each of these Control fields so that it is easy to refer to them. 1) "UL MU Response Scheduling" => T"rigger-based Response Scheduling (TRS)", 2) Operating Mode (OM)", "HE Link Adaptation" => Link Adaptation (LA), 3) UL Power Headroom (UPH)". Use these acronyms, followed by "A-Control" throughout once defined here.	As in comment.		2017/1/9 9:42
4728	Alfred Asterjadhi	225	1 9.2.4.6.4.1	23	34	E	Y	23.34 9.2.4.6.4.1	Link to BQR is not alive and for RDP is missing. Fix link for BQR and add the one for RDP in the 4th column of the Table.	As in comment.		2017/1/9 9:42
4729	Alfred Asterjadhi	225	1 9.2.4.6.4.2	23	59	E	Y	23.59 9.2.4.6.4.2	Since the PPDU is a Trigger-based PPDU I suggest we call this field TB PPDU Length.	Replace "UL PPDU Length" with "TB PPDU Length" throughout.		2017/1/9 9:42
4730	Alfred Asterjadhi	225	1 9.2.4.6.4.2	23	60	E	Y	23.60 9.2.4.6.4.2	"and is set to the number of OFDM symbols the Data field of the HE trigger-based PPDU minus 1" => "and is set to N_sym minus 1, where N_sym is the number of OFDM symbols of the Data field of the HE TB PPDU".	As in comment.		2017/1/9 9:42
4731	Alfred Asterjadhi	225	1 9.2.4.6.4.2	24	21	E	Y	24.21 9.2.4.6.4.2	"TRSSI" => "T_RSSI", and "F_VAL, except for the value 31..." => F_VAL, where F_VAL is the value of the UL Target RSSI subfield, except for the value 31..."	As in comment.		2017/1/9 9:42
4732	Alfred Asterjadhi	225	1 9.2.4.6.4.3	24	63	T	Y	24.63 9.2.4.6.4.3	Similar observation here. Saying UL MU is misleading. The operation refers to the generation of TB PPDUs. Maybe call the field "TB UL MU Disable"?	As in comment.		2017/1/9 9:42
4733	Alfred Asterjadhi	225	1 9.2.4.6.4.3	24	55	T	Y	24.55 9.2.4.6.4.3	N_ss is called twice in the same subclause to identify tx and rx ss. To avoid confusion specify the variables as N_rx, ss, and N_tx, ss.	As in comment.		2017/1/9 9:42
4734	Alfred Asterjadhi	225	1 9.2.4.6.4.2	24	27	T	Y	24.27 9.2.4.6.4.2	"The UL MCS subfield indicates the MCS, from MCS0 to MCS3, to be used by the receiving STA for the HE trigger-based PPDU (see 28.5 (Parameters for HE-MCSs))." needs to specify the encoding of the field	Add prior to "(see 28.5 (Parameters for HE-MCSs))." the following: ". The UL MCS subfield contains the 2 LSBs of the HE MCS Index field, and 2 MSBs of the MCS is set to 0".		2017/1/9 9:42
4735	Alfred Asterjadhi	225	1 9.2.4.6.4.5	27	12	E	Y	27.12 9.2.4.6.4.5	Wrong reference. Replace "10.9 (HT operation)" with "10.13.1 (A-MPDU contents)"	As in comment.		2017/1/9 9:42
4736	Alfred Asterjadhi	225	1 9.2.4.6.4.6	27	34	E	Y	27.34 9.2.4.6.4.6	Some editorial changes to the paragraph are proposed to remove redundancy.	Replace the paragraph with "The 5 LSBs (B0-B4) of the UL Power Headroom subfield indicate the available power headroom in units of one dB, for the current MCS. The UL Power Headroom subfield contains a value from 0 to 31 that maps to power headroom values from 0 dB to 31 dB. B5 of the UL Power Headroom subfield is set to 1 to indicate that the minimum transmit power for the current MCS is reached by the STA and is set to 0 otherwise."		2017/1/9 9:42
4737	Alfred Asterjadhi	225	1 9.2.4.6.4.7	28	45	E	Y	28.45 9.2.4.6.4.7	Suggested changes to remove redundancies. Replace first paragraph with "The Control Information subfield, when the Control ID subfield is 5, contains the Bandwidth Query Report (BQR) used for BQR delivery that can assist HE DL MU operation (see 27.5.1.3 (HE bandwidth query report operation for DL MU))." And remove the paragraph in P27L64-65.	As in comment.		2017/1/9 9:42

4738	Alfred Asterjadhi	225	1 9.2.4.6.4.7	28	6	T	Y	28.06 9.2.4.6.4.7	Having the mapping as a table didn't actually help in removing the redundancy and providiling a concise definition of this field. Perhaps better to specify the bit locations settings as a function of the operating channel width. In any case think of finding a way to put this in a more concise way. Also remove the "may" in the note as normative verbs cannot be placed in clause 9. Also remove "section", and add full subclause, and figure titles to the references in the note.	As in comment.	2017/1/9 9:42
4739	Alfred Asterjadhi	225	1 9.2.4.7.1	29	26	E	Y	29.26 9.2.4.7.1	All these parenthesis in the cells make this table very long. For a cleaner table move references in the Note rows. Also I don't dare to ask adding non-HE to the first row second column... Shouldn't it be for simplicity non-HT PPDU and Non-HT duplicate PPDU?	As in comment	2017/1/9 9:42
4740	Alfred Asterjadhi	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	Suggest to rephase the first two paragraphs of this subclause as follows: "The Control Information subfield, when the Control ID subfield is 6, contains reverse direction information used by HE STAs for RDP operation (see 10.28 (Reverse direction protocol)). The AC Constraint subfield is defined in Table 9-10 (AC Constraint subfield values), except that a value of 1 indicates to an HE STA that the response can contain RD Data frames from the same or higher AC(s), as defined in 10.28.4 (Rules for RD responder).	As in comment.	2017/1/9 9:42
4741	Alfred Asterjadhi	225	1 9.4.2.1	67	10	T	Y	67.10 9.4.2.1	There are a couple of elements missing in this list: BSS Color Change Announcement, Quiet Time Period Setup element, its request and its response (which by the way is it needed to have 3 elements for the same procedure? Why not simply have a bit or smth in one element that makes this differentiation> See my other comment in the same logic.	Add the missing rows for those elements that are defined.	2017/1/9 9:42
4742	Alfred Asterjadhi	225	1 9.4.2.221	94	27	T	Y	94.27 9.4.2.221	Only UL MU Capable STAs update their MIBs. And they do so when certain conditions occure as defined in10.2.4.2. Change to something like this: The most recent MU EDCA Parameter Set element is used by an "UL MU Capable STA" to update the appropriate MIB variables, "as defined in 10.2.4.2 (HCF contention based channel access (EDCA))."	Add quoted text as in comment.	2017/1/9 9:42
4743	Alfred Asterjadhi	225	1 10.2.4.2	113	20	T	Y	113.20 10.2.4.2	There needs to be a statement, similar to the baseline, regarding the interval during which the new values are taken into consideration for MU ECA Parameters as well, when a parameter change occurs. Also the MIB variables are missing for the MU EDCA case.	Add the following :An UL MU Capable STA shall update its MIB attributes that correspond to fields in an MU EDCA Parameter Set element within an interval of time equal to one beacon interval after receiving an updated MU EDCA parameter set." Also define the MIB variables for MU EDCA parameter and explicitly call out that the same baseline update procedure is used by AP and STA to update the MU MIBs.	2017/1/9 9:42
4744	Alfred Asterjadhi	225	1 9.4.2.221	94	63	T	Y	94.63 9.4.2.221	This sentence is unclear. Rephrase it so that it is clear that this is the time during which the STA is supposed to use the MU EDCA parames.	Replace with "The MU EDCA Timer field indicates the duration of time, in units of 8 TUs, during which the HE STA uses the provided MU EDCA parameters for the corresponding AC, as defined in 27.2.3 (Obtaining an EDCA TXOP for UL MU capable STAs).	2017/1/9 9:42

4745	Alfred Asterjadhi	225	1 10.2.4.2	113	113	T	Y	114.13 10.2.4.2	What is the expectation when the AP wants to not use MU EDCA Parameters anymore? Does it decide to not include the MU EDCA Parameter Set in the Beacon, or does it continue including it and always specify the same values in the MU and normal EDCA Parameter Set elements? Clarify (noting that the second option requires to keep 16 redundant octets in the Beacon).	As in comment.		2017/1/9 9:42
4746	Alfred Asterjadhi	225	1 10.2.1	1258	1258	T	Y	1270.58 10.2.1	Need to update the MAC architecture (Figure 10-1) and respective definitions to host the enhancements for HE (UL MU, etc).	As in comment.		2017/1/9 9:42
4747	Alfred Asterjadhi	225	1 27.2.3	152	17	T	Y	152.17 27.2.3	Time references when to update these state variables are missing, especially for the timer.	Add the following at the end of the paragraph: "The backoff counter maintenance corresponding to the updated state variables shall follow the rules in 10.22.2.2 (EDCA backoff procedure), and the updated HEMUEDCATimer[AC] shall start at the end of the immediate response (if any is sent by the AP).		2017/1/9 9:42
4748	Alfred Asterjadhi	225	1 27.2.3	152	18	T	Y	152.18 27.2.3	Perhaps it is already clear but better to add a note that only the Basic Trigger frame causes a switch to the MU EDCA parameters, and only when QoS Data are sent.	Add the following note: "The non-AP STA is not required to update its state variables to the values contained in the MU EDCA Parameter Set element if it the Trigger frame addressed to it is not a Basic Trigger frame or if it transmits frames that are not QoS Data frames in the HE TB PPDU response."		2017/1/9 9:42
4749	Alfred Asterjadhi	225	1 10.9	126	46	E	Y	126.46 10.9	Not all 10.9 is present in the draft, so this instruction is not correct. Also there is some part that is underlined but actually is baseline (P127L38-42). Also this subclause need to be modified to be inline with the new amendment style.	As in comment.		2017/1/9 9:42
4750	Alfred Asterjadhi	225	1 10.9	126	63	T	Y	126.63 10.9	There are 7 control fields defined and only 3 MIB variables here. There has to be one MIB for each of the 7. Add the remaining 4 MIB variables to the list.	As in comment.		2017/1/9 9:42
4751	Alfred Asterjadhi	225	1 10.9	127	14	E	Y	127.14 10.9	Some editorial fixes in this paragraph: in the HE Capabilities Information field" => "in the HE MAC Capabilities Information field", "receive operating mode" => "operating mode", 10.31.4 => 27.13, add at the end of the items: "A value of 6 in the Control ID subfield when the transmitting STA follows the reverse direction procedure, as described in 10.29 (Reverse direction protocol)"	As in comment.		2017/1/9 9:42
4752	Alfred Asterjadhi	225	1 10.12	128	10	E	Y	128.10 10.12	Redundant sentence that can be avoided by adding a reference where this behavior is defined. Add "as defined in 27.3 (Fragmentation)" at the end of the second sentence and remove the third sentence.	As in comment.		2017/1/9 9:42

4753	Alfred Asterjadhi	225	1 10.13.2	128	36	T	Y	128.36 10.13.2	The maximum length of the A-MPDU per-EOF that an HE STA can receive is actually signaled by a combination of the values of the MALE (Maximum A-MPDU Length Exponent) fields in the HT, VHT, and HE Capabilities element. As such this statement is not correct. Fix the inconsistency inline with the definition of these fields in the HE Capabilities, and VHT, HT Caps (similarly in P129L5). Also the term "padding in this sentence is ambiguous. At first read i thought that this applies to padding, but actually refers to the A-MPDU max length, or does it? Remove "padding" or somehow clarify that it relates to the A-MPDU length, e.g., adding a reference to 9.7.1 (A-MPDU format). Also in the VHT case.	As in comment.		2017/1/9 9:42
4754	Alfred Asterjadhi	225	1 10.13.2	107	1	T	Y	107.01 10.13.2	The MPDU length for HE follows the same rules as the one for VHT. Replace "VHT PPDU" with "VHT or HE PPDU" in this equation.	As in comment.	2017/1/9 9:42
4755	Alfred Asterjadhi	225	1 10.7.6.5.2	123	34	T	Y	123.34 10.7.6.5.2	Move these two paragraphs to subclause 27.15.3 (MCS, NSS, BW and DCM selection) after ensuring that there is no redundancy in the provided normative behavior.	As in comment.	2017/1/9 9:42
4756	Alfred Asterjadhi	225	1 10.7.10	126	1	T	Y	126.01 10.7.10	Is DCM considered an MCS? If yes (which I think it should) then specify what is the non-HT refence rate for the conversion in this table, or somewhere else.	As in comment.	2017/1/9 9:42
4757	Alfred Asterjadhi	225	1 9.7.3	107	65	T	Y	107.65 9.7.3	This sentence is confusing "The further restrictions of A-MPDU content are defined in the conditions of various contexts."	Replace it with "The content of an A-MPDU depends on the context at which it is transmitted as defined in the tables below."	2017/1/9 9:42
4758	Alfred Asterjadhi	225	1 9.7.3	108	7	T	Y	108.07 9.7.3	I don't think this sentence is needed because both cases are allowed for an HE MU PPDU, and both of them are defined in clause 10. So remove this sentence as it brings no new information. If necessary modify it to say that an HE DL MU PPDU can carry more than one A_MPDU that ... as defined somewhere in clause 10 (where acknowledgment procedures are defined).	As in comment.	2017/1/9 9:42
4759	Alfred Asterjadhi	225	1 9.7.3	108	50	T	Y	108.50 9.7.3	What is so special about the A-MPDU transmitted by an AP in an HE BSS that needs the addition of it in the Control response context? If there is nothing special then remove the following part "or the A-MPDU is transmitted by AP in an HE BSS".	As in comment.	2017/1/9 9:42
4760	Alfred Asterjadhi	225	1 9.7.3	111	48	T	Y	111.48 9.7.3	The case of an AP sending a multi-STA BlockAck frame as a response to TB PPDUs from multi STAs is missing in the control response context. Also it is good to explicitly call out the two cases: when the M-BA contains Ack and when it contains BlockAck so that it is clear that the M-BA is not neccessarily tied to the HT_Immediate agreement.	As in comment. Also referring in one case (third column) to not HE BSS and in another to HE STAs is confusing. Make this an itemized list specifying the condition on a per receiving STA basis. Same observations for the third column of the other two preceding Tables (Data no immediate resp, and Data immediate resp) and for the conditions on the multi-STA BlockAck frame.	2017/1/9 9:42
4761	Alfred Asterjadhi	225	1 9.7.3	111	32	T	Y	111.32 9.7.3	This note has nothing to do with this context because delayed BA is deprecated, and Trigger plue BlockAck can be added only in the Data enabled immediate response context. Remove this note (eventually add it to the immediate response context).	As in comment.	2017/1/9 9:42

4762	Alfred Asterjadhi	225	1 9.7.3	110	36	T	Y	110.36 9.7.3	There is only one of the following cases. So no need to organize this way the second column. Also it is not technically correct because it would mean that a BAR and a Multi-TID BAR can be present (but that is not the case). Add the following sentence as the first sentence of the second column: "In a single TID A-MPDU context:" Replace the newly added paragraph in the second column with the following sentence: " In a multi-TID A-MPDU context: At most one Multi-TID BlockAckReq frame with one or more TIDs that correspond to established HT-immediate block ack agreements. It is not present if a BlockAckReq frame is present. This is the last MPDU in the A-MPDU."	As in comment.		2017/1/9 9:42
4763	Alfred Asterjadhi	225	1 9.7.3	110	7	T	Y	110.07 9.7.3	These items (third column) are confusing as certain frames presence has nothing to do with the others. See proposed change for a possible organization as part of the single TID A-MPDU context, and multi-TID A-MPDU context.	Define a single TID A-MPDU context that applies to non-DMG STAs (to HE STAs as well [first round of conditions in this colum falls in this category]). And specify that Data frames without HT-immediate block agreement, and Action frames are not allowed in this context. Define a multi-TID A-MPDU context that applies to HE STAs only which specifies that: "Of these, at most one of the following is present: - QoS Data frames from more than one TID, each TID corresponding to an HT-immediate blockack agreement if the recepient supports multi-TID A-MPDU aggregation. - A BAR frame or a Multi-TID BAR frame with TID(s) that correspond to HT-immediate blockack agreement(s) for which QoS Data frames are not present in the A-MPDU. If the recipient supports ack-enabled multi-TID A-MPDU one or more of the following is additionally allowed in the multi-		2017/1/9 9:42
4764	Alfred Asterjadhi	225	1 9.7.3	110	51	T	Y	110.51 9.7.3	This row has nothing in common with the above ones. Also MU BAR cannot be aggregated along with other Data (if can be as a self contained frame in the S_MPDU context)	Place the row that contains the Trigger as an independent row, which second column contains the following "Zero or more Basic or BSRP Trigger frames if the A-MPDU is transmitted by an AP. The BSRP Trigger frame can be present only when the receiving STA indicates support of its reception in the A-MPDU context (see 27.5.2.5 (HE buffer status feedback operation for UL MU))." Also there is no need for a third column for this case so remove it. Also make the same change for the Trigger row in Table 9-426.		2017/1/9 9:42
4765	Alfred Asterjadhi	225	1 9.4.2.200	69	32	T	Y	69.32 9.4.2.200	There are some issues in this Figure. First some parts are missing (TWR field is 8, 2, or 0 in length, Broadcast TWT ID needs to be underlined). Also in order to avoid confusion between a normal TWT element and a broadcast TWT element I suggest having two Figures, one for TWT element (with one TWT parameter set, as in baseline), and another one for broadcast TWT element (with one or more TWT parameter sets, this to be tied to the value broadcast = 1 and wake TBTT interval value 0).	As in comment.		2017/1/9 9:42

4766	Alfred Asterjadhi	225	1 9.4.2.200	69	55	T	Y	69.55 9.4.2.200	The Broadcast TWT ID is present when the Broadcast field is 1, however the functionality of the Broadcast TWT ID depends on the value of the Wake TBTT interval value. If the value is 0 then this is a broadcast TWT element. If the value is 1 then this is a TWT request/response that is negotiating the broadcast TWT IDs of that (those) particular value(s).	As in comment. Impacts also the paragraph that describes the definition of Wake TBTT Negotiation in the next paragraph (which as is refers only to when the Broacast is 0 and need to add the case when broadcast is 1). Also to generalize call this field something else (as Wake TBTT is restrictive now). Also please make these changes to all those fields that depend on these settings in the remaining paragraphs of this subclause.		2017/1/9 9:42
4767	Alfred Asterjadhi	225	1 9.4.2.200	70	21	T	Y	70.21 9.4.2.200	Couple or more things: There is another table that performs a similar function in 10.43.smth. Maybe just keep that one and undo the changes to this table. This table also contains some inconsistencies (compared to (27.7.3.4 Negotiation of wake TBTT and listen interval) some values are not right), compared to 10.43.1 (TWT overview) it does not contain the listing in dependency of the broadcast field values.)	As in comment (my preference is to have one Table, and that contains all possible combos in one place).		2017/1/9 9:42
4768	Alfred Asterjadhi	225	1 9.4.2.218	76	18	T	Y	76.18 9.4.2.218	Somebody has to do some work here to ensure that each capability bit here: - Has a corresponding normative setting somewhere in >9 clauses. - Uses consistent terminology (support/supported/capable). - Has a reference to the subclause where the normatvie behavior is defined (perhaps in the definition cell (for all of them). - Has an explicit indication of the setting if its values depend on other caps (e.g., Minimum Fragment Size is reserved if Fragmentation Support is 0 and so on) - Maximum A-MPDU Lenght Support's cells are empty because the text is outside the table. Need to add it here.	As in comment.		2017/1/9 9:42
4769	Alfred Asterjadhi	225	1 9.4.2.218.4	86	48	T	Y	86.48 9.4.2.218.4	m and n are not defined. Define them and on what values combos they depend on.	As in comment.		2017/1/9 9:42
4770	Alfred Asterjadhi	225	1 9.4.2.218.4	88	34	T	Y	88.34 9.4.2.218.4	How do you indicate support for NSS = 8 with this encoding?	If the NSS indicates the number of NSS as an unsigned integer then there is no value for NSS =8. Please clarify.		2017/1/9 9:42
4771	Alfred Asterjadhi	225	1 9.4.2.219	91	4	T	Y	91.04 9.4.2.219	The operation of HE STAs is not controlled by the presence of the VHT Operation element because the HE Operation IE has the VHT Operation Information field. Remove the occurrence of VHT Operation element from this sentence.Also specify the meaning of the VHT Operation Information field when sent in 2.4Gigs.	As in comment.		2017/1/9 9:42
4772	Alfred Asterjadhi	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	Duplicated (conflicting) definition of the BSS Color field. Remove the first occurrence.	As in comment.		2017/1/9 9:42
4773	Alfred Asterjadhi	225	1 9.4.2.219	91	60	T	Y	91.60 9.4.2.219	HE Duration Based does not say much. Replace it with something that gives the idea of a TXOP based duration threshold. Also provide a reference to the subclause where the normative behavior for setting this field is defined. And most importantly where the STA that receives this information updates its MIB variable that controls RTS enablement.	As in comment.		2017/1/9 9:42

4774	Alfred Asterjadhi	225	1 9.4.2.219	92	7	T	Y	92.07 9.4.2.219	This paragraph is not very clear in defining the setting of the Max BSSID Indicator and Tx BSSID Indicator field. Please rephrase it to make the definition clearer. And add a reference to the normative describing subclause	As in comment.	2017/1/9 9:42
4775	Alfred Asterjadhi	225	1 9.4.2.219	92	28	T	Y	92.28 9.4.2.219	This paragraph describes normative behavior related to the non-AP STA and cannot be located in this subclause. Move the paragraph somewhere in subclause 27 (e.g., 27.11.4(BSS COLoR).	As in comment.	2017/1/9 9:42
4776	Alfred Asterjadhi	225	1 9.4.2.219	92	40	T	Y	92.40 9.4.2.219	In one PHY format = in non-HT format.	As in comment.	2017/1/9 9:42
4777	Alfred Asterjadhi	225	1 10.43.1	137	43	T	Y	137.43 10.43.1	The Reject TWT case is missing in the description. Please add for completeness. Also it would be beneficial to provide a list of what types of individual TWTs, and broadcast TWTs can be negotiated, depending on the setting of the Broadcast, Wake TBTT Interval Negotiation, since they govern TWT Setup for Individual TWTs, Broadcast TWTs, and TBTTs.	As in comment.	2017/1/9 9:42
4778	Alfred Asterjadhi	225	1 10.43.1	138	7	T	Y	138.07 10.43.1	Broadcast field value is missing in some of these entries. Need to be added and clarify in the third column the dependency of the Wake TBTT, Bcast fields settings and the type fo TWT agreement that is setup. Also instead of using "Don't care" use "Any". Actually since the broadcast TWT cases are valid for HE STAs only I suggest this table only covers the case of individual TWT (with Wake TBTT = 0 and Broadcast = 0) and then another table is added in clause 27 that covers the other combinations (citing as much as possible from the basic table).	As in comment. And editorial: this table is a new insertion so no need for underlines and strikesthoughs.	2017/1/9 9:42
4779	Alfred Asterjadhi	225	1 10.43.1	138	18	T	Y	138.18 10.43.1	Instead of putting the combinations that are not allowed, it would be best to put those that are allowed and specify in the last row: other combinations are not allowed. Also some of these rows are not correct (e.g., page 139L52, there is unsolicited TWT responses that are allowed).	As in comment.	2017/1/9 9:42
4780	Alfred Asterjadhi	225	1 11	141	1	T	Y	141.01 11	Move as much text from clause 11 to clause 27 as possible, under the new editorial style guide.	As in commnet.	2017/1/9 9:42
4781	Alfred Asterjadhi	225	1 11.23	143	53	T	Y	143.53 11.23	Amendments to enable TDLS for HE STAs are partial. Review baseline and add HE qualifiers wherever necessary. Or create a subclasue in 27 that cotnains these amendments.	As in comment.	2017/1/9 9:42
4782	Alfred Asterjadhi	225	1 11.49.1	144	32	T	Y	144.32 11.49.1	The case of Partial BSS Color is 0 is missing. Specify that when that bit is 0 then the AP uses the AID assignment rules of baseline.	As in comment.	2017/1/9 9:42
4783	Alfred Asterjadhi	225	1 27.81	188	29	T	Y	188.29 27.81	This paragraph does not provide the full picture for the OMI optionality at the STA, and mandatroy at the AP. Please rephrase such that it is clear that OMI A-Control field can be sent to a STA that has declared support of its reception (tie to HE Caps), and specify that an HE STA may set the HE Caps to 1 while the HE AP shall set it to 1.	As in comment.	2017/1/9 9:42
4784	Alfred Asterjadhi	225	1 27.8.2	189	5	T	Y	189.05 27.8.2	"Rx Channel Width" => "Channel Width". "To sent PPDUs" => "as transmit parameters for sending PPDUs"	As in comment.	2017/1/9 9:42

4785	Alfred Asterjadhi	225	1 27.8.2	189	8	E	Y	189.08 27.8.2	This paragraph is awkward. Please replace with: "The OMI responder may transmit subsequent SU PPDUs or MU PPDUs that are addressed to the OMI initiator after sending the immediate response for the frame containing the OMI A-Control field.	As in comment. Also there is no ROM Initiator. Please replace it with OMI Initiator (initiator actually throughout).	2017/1/9 9:42
4786	Alfred Asterjadhi	225	1 27.13	198	61	T	Y	198.61 27.13	This subclause seeems incomplete. Please complete it in terms of expected norm behavior at RX, at TX, etc.	As in comment	2017/1/9 9:42
4787	Alfred Asterjadhi	225	1 27.14.2	200		T	Y	200.00 27.14.2	Some of this text applies to the Cascade Indication setting for the Trigger frame from the AP side, which would be more appropriate to be in the TWT subclause. It is appropriate to clarify that the reception of this Trigger frame for random access is classified as an early termination period.	Please organize the subclause such that the normative behavior from AP side is contained in one subclause and the normatvie behavior from STA side is contained in one subclause (in terms of early termination events). If necessary add declarative statements to indicate where such a behavior is defined. Similar considerations for power save in congested environment.	2017/1/9 9:42
4788	Alfred Asterjadhi	225	1 27.14.2	200	30	T	Y	200.30 27.14.2	The other condition is missing. Specify that when the OBO counter is 0 the STA transmits a Trigger-based PPDu in the selected resource (and provide a subclause reference where the norm behavior is defined.	As in comment.	2017/1/9 9:42
4789	Alfred Asterjadhi	225	1 27.15.2	201	37	T	Y	201.37 27.15.2	This capability has nothing to do with the reception of the HE trigger-based PPDU. It has to do with the reception of the UL MU PPDU as provided by motioned comment resolution 11/16/1419r0. Also keep consistency of the capability field name, in the HE Caps, and here.	As in comment.	2017/1/9 9:42
4790	Alfred Asterjadhi	225	1 27.10.2	192	41	T	Y	192.41 27.10.2	There is an exception here for A-MPDUs that are contained in HE PPDUs, that is multi-TID A-MPDU. Please add a reference to the subclause that defines Multi-TID A-MPDU here and in the next subclause.	As in comment.	2017/1/9 9:42
4791	Alfred Asterjadhi	225	1 27.10.3	192	63	T	Y	192.63 27.10.3	The MPDU start spacing requirements for the Trigger-based PPDU also depends on the MU Minimum Start Spacing field of the Trigger frame.	Specify that the minimum start spacing also depends on the value of the MU Start Spacing(?) field of the User Info field of that STA in the Trigger frame.	2017/1/9 9:42
4792	Alfred Asterjadhi	225	1 27.10.3	193	19	T	Y	193.19 27.10.3	This is not true anymore when the A-MPDU si an Ack-enabled multi-TID A-MPDU AMT A-MPDU, where an EOF eq 0 can follow an EOF eq 1.	As in comment.	2017/1/9 9:42
4793	Alfred Asterjadhi	225	1 27.10.4	193	34	T	Y	193.34 27.10.4	A multi-TID A-MPDU can also contain QoS Data frames of one TID and one Action frame and still be called MT A-MPDU. Ensure this definition is consistent. Also there is a certain independence between multi-TID A-MPDU that contains contiguous valued EOFs and multi-TID A-MPDU that contains non-contiguous EOFs. Please use two different terms for these cases so that it is clear that they are not the same, and as such tx, rx and operation for these MPDUs.	As in comment.	2017/1/9 9:42
4794	Alfred Asterjadhi	225	1 27.10.4	194	35	T	Y	194.35 27.10.4	The UL MU PPDU case carrying the MT A-MPDU is missing. Add UL MU PPDU to the list	As in comment.	2017/1/9 9:42

4795	Alfred Asterjadhi	225	1 27.10.4	194	51	T	Y	194.51 27.10.4	Is the presence of an Action frame in the MT A-MPDU contained in the TB PPDU subject to the multi-TID aggregation limit? Seems not but just in case please clarify. Also please check that normative behaviors are not redundantly listed in different subclauses. From a quick check there is normative behavior that is redundant in different subclauses.	As in comment.	2017/1/9 9:42
4796	Alfred Asterjadhi	225	1 9.7.3	110	53	T	Y	110.53 9.7.3	The presence of the MU BAR in the second column is inconsistent with trigger frame types listed in the third column and with the normative behaviors described in clause 27.	Remove MU-BAR from the second column.	2017/1/9 9:42
4797	Alfred Asterjadhi	225	1 27.5.1.1	162	44	T	Y	162.44 27.5.1.1	This sentence is not clear "An AP shall not transmit to a STA an HE MU PPDU with the HE-SIG-B allocating spatial streams to more than one recipient STA, unless the STA sets the Downlink MU-MIMO On Partial Bandwidth Rx subfield of the HE Capabilities element to 1." Please clarify what the intention is.	As in comment	2017/1/9 9:42
4798	Alfred Asterjadhi	225	1 27.5.1.1	162	49	T	Y	162.49 27.5.1.1	It is not the transmission that is padded but the PSDU in each RU. PLease rephrase.	As in commnet.	2017/1/9 9:42
4799	Alfred Asterjadhi	225	1 27.5.1.1	162	56	T	Y	162.56 27.5.1.1	Unicast is not defined. Define it prior to its use.	As in comment.	2017/1/9 9:42
4800	Alfred Asterjadhi	225	1 27.5.1.2	163	8	T	Y	163.08 27.5.1.2	Some more details are needed here for completeness. I sugges to itemize what possible values the AID can have in the SIG-B (and potentially have a reference to 27.11). For example: AID 0 is broadcast, AID 1 to n can be broadcast for the multi BSSID case, AID 2046 is this AID to indicate unallocated RU, 2047 is the broadcast AID for all BSSs of the multiBSS and so on.	As in comment.	2017/1/9 9:42
4801	Alfred Asterjadhi	225	1 27.5.1.2	163	13	T	Y	163.13 27.5.1.2	This is not enough. It has to be clear what the MPDU that is sent in the broadcast RU contains. E.g., can it be a broadcast MPDU that was sent in legacy PPDU? If yes then what is the STA receiving both expected to do?	As in comment.	2017/1/9 9:42
4802	Alfred Asterjadhi	225	1 27.5.1.3	163	37	T	Y	163.37 27.5.1.3	It seems BQR Trigger frame is not allowed in the A-MPDU content (See 9.7.3). I don't think it is the case. Please amend to fix the inconsistency.	As in comment.	2017/1/9 9:42
4803	Alfred Asterjadhi	225	1 27.5.1.3	163	36	T	Y	163.36 27.5.1.3	This is a weird way to say that reception of the BQR Trigger frames is optional. Find a less weird way to say the same.	As in comment.	2017/1/9 9:42
4804	Alfred Asterjadhi	225	1 27.5.1.3	163	46	T	Y	163.46 27.5.1.3	QoS Data cannot be added because the BQR variant Trigger frame does not have TID AGG limit and MU Minimum Start Spacing indications, etc. Please remove QoS Data from the sentence. Also no need to indicate that "when the AP has indicated its support in the A-BQR Support... because the AP sends the BQR variant Trigger frame only if it supports Rx of the info.	As in comment.	2017/1/9 9:42
4805	Alfred Asterjadhi	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	There is many details that are not defined in this feature. Either define the missing details or remove it. Also what is a very high number of STAs?	As in comment.	2017/1/9 9:42

4806	Alfred Asterjadhi	225	1 17.5.3	175	33	T	Y	175.33 17.5.3	It seems that the cascading sequence as defined here does not cover all possible combinations. For example an SU PPDU that has this content can still be called part of a cascading sequence. Unless it is not allowed.	As in comment.	2017/1/9 9:42
4807	Alfred Asterjadhi	225	1 17.5.3	175	41	T	Y	175.41 17.5.3	Cascading sequence and cascading indication have nothing to do with each other. Please find alternate names for one of them to avoid confusion.	As in comment.	2017/1/9 9:42
4808	Alfred Asterjadhi	225	1 27.15.2	201	26	T	Y	201.26 27.15.2	The 242-tone ER SU PPDU can be transmitted to another STA if the other STA supports either DCM or 106tone RU. Otherwise what is the benefit? Please clarify the conditional reception (inlien with filosophy of P202L51).	As in comment.	2017/1/9 9:42
4809	Alfred Asterjadhi	225	1 27.5.2.1	163	60	T	Y	163.60 27.5.2.1	"in either UL OFDMA, UL MU-MIMO, or both," is redundant since the trigger-based PPDU already defines the allowed modes	remove "in either UL OFDMA, UL MU-MIMO, or both,"	2017/1/9 9:42
4810	Alfred Asterjadhi	225	1 27.5.2.1	164	3	T	Y	164.03 27.5.2.1	use field name instad of bit number. Same in other lines	as in comment	2017/1/9 9:42
4811	Alfred Asterjadhi	225	1 27.5.2.1	164	14	T	Y	164.14 27.5.2.1	This para is redundant with the next one	Remove this para and keep the next one starting at line19	2017/1/9 9:42
4812	Alfred Asterjadhi	225	1 27.5.2.1	164	24	T	Y	164.24 27.5.2.1	UL OFDMA PPDU is not defined. Is it meant to be triger-based PPDU with no more than one SS per user?	Define UL OFDMA PPDU or contextualy add more details to define the intended type of PPDU	2017/1/9 9:42
4813	Alfred Asterjadhi	225	1 27.5.2.2.1	164	58	T	Y	164.58 27.5.2.2.1	what else can the AP send, or in which frames? These bullets define only may conditions, but no restrictions	add a reference to A-MPDU context and other restrictions where a trigger frame may not be included	2017/1/9 9:42
4814	Alfred Asterjadhi	225	1 27.5.2.2.1	165	13	T	Y	165.13 27.5.2.2.1	the Ack, This rule is ambiguous, especially on the second part of the sentence. "BlockAck or Multi-STA BlockAck frame shall be the first MPDU in the A-MPDU and a Trigger frame shall follow the Ack, BlockAck or Multi-STA BlockAck frame"	Clarify indicating that "at least one" of Ack/MA/M-BA shall be the first, and tha the trigger shall follow the first frame. Also verify these rules are consistent with the A-MPDU context rules	2017/1/9 9:42
4815	Alfred Asterjadhi	225	1 27.5.2.2.1	165	27	T	Y	165.27 27.5.2.2.1	"The AP shall apply the Trigger Frame MAC Padding field with duration corresponding to the longest value among all STAs that have requested extra MinTrigProcTime through Trigger Frame MAC Padding Duration capability." Which are "all the STAs"? even STAs that are not allocated by this trigger frame?	Clarify that the statement refers to only the STAs are allocated by this trigger frame	2017/1/9 9:42
4816	Alfred Asterjadhi	225	1 27.5.2.2.1	165	31	T	Y	165.31 27.5.2.2.1	This para is reduntant. The previous one is sufficient	Remove this para	2017/1/9 9:42
4817	Alfred Asterjadhi	225	1 27.5.2.2.2	165	60	T	Y	165.60 27.5.2.2.2	confusing construction of the sentence "If an HE AP does not receive an HE Capabilities element with the Rx Control Frame To MultiBSS field equal to 1 from a STA, the HE AP shall not send a Trigger frame whose destination STAs associate with more than one APs to the STA."	Reword the sentence	2017/1/9 9:42
4818	Alfred Asterjadhi	225	1 27.5.2.2.3	167	38	T	Y	167.38 27.5.2.2.3	this para is redundant. Concepts are better explained at the previous para	Remove this paragraph	2017/1/9 9:42
4819	Alfred Asterjadhi	225	1 27.5.2.3	167	57	T	Y	167.57 27.5.2.3	If the STA is not associated with the AP, TBD.	Define the TBD. If the STA is not associated with the AP, a value of 0 indicates the allocation of a random access RU which can be used also by non-associated STAs	2017/1/9 9:42
4820	Alfred Asterjadhi	225	1 27.5.2.3	168	46	T	Y	168.46 27.5.2.3	repeated "shall be set"	remove	2017/1/9 9:42
4821	Alfred Asterjadhi	225	1 27.5.2.3	168	27	T	Y	168.27 27.5.2.3	typo on CH_BANDWITHW	remove the final W	2017/1/9 9:42
4822	Alfred Asterjadhi	225	1 27.5.2.3	168	52	T	Y	168.52 27.5.2.3	repeated "shall be set"	remove duplication	2017/1/9 9:42
4823	Alfred Asterjadhi	225	1 27.5.2.3	169	7	T	Y	169.07 27.5.2.3	UL_TARGET_RSSI, DL_TX_POWER are not defined vectors	Remove. These are not paramiters that go into the trigger-based PPDU	2017/1/9 9:42

4824	Alfred Asterjadhi	225	1 27.5.2.3	169	15	T	Y	169.15 27.5.2.3	MU_MIMO_LTF_MODE is not a tx/rx vector paramter. LDPC_EXTRA is actually LTPC_EXTRA_SYMBOL; CODING_TYPE is not defined; SS_ALOCATION is not defined	Refer to the correct paramters or remove them.		2017/1/9 9:42
4825	Alfred Asterjadhi	225	1 27.5.2.3	169	26	T	Y	169.26 27.5.2.3	CP_LTF_TYPE paramter does not exist	Refer to the correct paramter		2017/1/9 9:42
4826	Alfred Asterjadhi	225	1 27.5.2.3	169	30	T	Y	169.30 27.5.2.3	Is UL OFDMA PPDU format defined?	Define UL OFDMA format or contextualy add more details to define the intended type of PPDU.		2017/1/9 9:42
4827	Alfred Asterjadhi	225	1 27.5.2.3	169	43	T	Y	169.43 27.5.2.3	doesn't the presence of the UL MU Response Scheduling imply there is an immediate response?	Clarify what an immediate response means.		2017/1/9 9:42
4828	Alfred Asterjadhi	225	1 27.5.2.3	170	15	T	Y	170.15 27.5.2.3	double period			2017/1/9 9:42
4829	Alfred Asterjadhi	225	1 27.5.2.4	170	23	T	Y	170.23 27.5.2.4	from "ED-based ..." to the end of he paragraph. These concepts are more precisely described in the paragraph starting at line 40	Remove the quotes sentences		2017/1/9 9:42
4830	Alfred Asterjadhi	225	1 27.5.2.4	170	37	T	Y	170.37 27.5.2.4	"If one or both of the NAVs are considered and the considered NAV's counter is not zero." which NAVs? Explicitly state. Also, what are the cases where one or the other or both NAV are considered?	Please clarify.		2017/1/9 9:42
4831	Alfred Asterjadhi	225	1 27.5.2.4	170	61	T	Y	170.61 27.5.2.4	By followng this rule then the behavior described at line 29 will never be used. Simply say that the STA considers the ED and NAV if CS Required is 1 and does not if the CS Required is 0.	either keep line 29 or keep this one		2017/1/9 9:42
4832	Alfred Asterjadhi	225	1 10.22.2.4	130	38	T	Y	130.38 10.22.2.4	"During an EDCA TXOP, Address 2 field excluding the Individual/Group bit of all control frames sent by a TXOP holder shall be set to the same address value." change to baseline?	Clarify what the intention is.		2017/1/9 9:42
4833	Alfred Asterjadhi	225	1 10.22.2.7	132	33	T	Y	132.33 10.22.2.7	i) it is not clear what "the RU Allocation subfields of the MU-RTS frame for all intended receiver are equal to the BW subfield in the Common Info field of the MU-RTS frame" means. The two fields that are compared are encoded in quite different ways. ii) in the 'otherwise' case, the 'preceding PPDU' may be an MU-RTS, but the previous bullet that is supposed to describe the MU-RTS case does not cover all the MU-RTS cases, pointing to the 'otherwise', hence there is a loop and something missing.	Make sure there is a defiend behavior for all the cases		2017/1/9 9:42
4834	Alfred Asterjadhi	225	1 10.3.1	113	50	T	Y	113.50 10.3.1	"When HE duration-based RTS is enabled". No mention of where that is indicated. Is it referring to a MIB or to a field somewhere? dot11DurationRTSThreshold: can it be configured through a management message? (I found no such possibility) If not, this mechanism is not enforcing anything.	Specify that this dotBLAH shall be set to the most recent value of the HE Duration Based field of the HE Operation element transmitted by the AP to which it is associated.		2017/1/9 9:42
4835	Alfred Asterjadhi	225	1 10.3.2.8a.3	117	36	T	Y	117.36 10.3.2.8a.3	SCRAMBLER_INITIAL_STATE is not a defined RX/TX vector	define the tx/rx vector parameter		2017/1/9 9:42
4836	Alfred Asterjadhi	225	1 10.3.2.10.1	118	47	T	Y	118.47 10.3.2.10.1	This statement may not be true for HE, since there are new BA formats, fragmentation and new rules.	Remove the reference to HE in this statement		2017/1/9 9:42
4837	Alfred Asterjadhi	225	1 10.3.2.10.1	118	55	T	Y	118.55 10.3.2.10.1	"Responses to A-MPDUs within a VHT MU PPDU or an HE MU PPDU for DL transmissionthat are not immediate responses to the VHT MU PPDU or the HE MU PPDU for DL transmission are transmitted in response to explicit BlockAckReq frames by the AP" This is an option, but not the only one	BARs can also be sent in response to an implicit block ack request in one of the following PPDUs		2017/1/9 9:42
4838	Alfred Asterjadhi	225	1 10.3.2.10.1	118	48	T	Y	118.48 10.3.2.10.1	"MU PPDU for DL transmission" is not defined.	change to MU PPDU sent by an AP STA		2017/1/9 9:42

4839	Alfred Asterjadhi	225	1 27.7.2	181	33	T	Y	181.33 27.7.2	The UL MU Response Scheduling A-Control field can be considered as a Trigger frame if at least it allocates resources for the STA to deliver BSRs.	Clarify the specified condition.	2017/1/9 9:42
4840	Alfred Asterjadhi	225	1 27.7.2	181	55	T	Y	181.55 27.7.2	What does the fact that the STA follows APSD have to do with TWT? Please clarify. Also ensure that these conditions are the same for both individual and broadcast TWT for consistency.	As in comment	2017/1/9 9:42
4841	Alfred Asterjadhi	225	1 27.7.2	182	8	T	Y	182.08 27.7.2	These are the conditions for individually negotiated TWTs, not for TFs with random access. Please remove the condition on random access allocation. Also the term Cascade Indication is confusing as it is also use fro MU Cascade operation.	Clarify as suggested in the comment.	2017/1/9 9:42
4842	Alfred Asterjadhi	225	1 27.7.2	182	10	T	Y	182.10 27.7.2	These are exclusive conditions (based on EOSP setting of the soliciting frame) on whether the soliciting frame does or does not solicit an acknowledgment. Ensure that this consistency is clear.	As in comment.	2017/1/9 9:42
4843	Alfred Asterjadhi	225	1 27.7.3.1	182	44	T	Y	182.44 27.7.3.1	The STA can also negotiate the Broadcast ID. This needs to be stated here for completeness. Also please add references to the normative behaviors for the different features, from TWT scheduled STA perspective (TFRs, power save for congested nets and so on.)	As in comment.	2017/1/9 9:42
4844	Alfred Asterjadhi	225	1 27.7.3.1	183	28	T	Y	183.28 27.7.3.1	It needs to be clear that these TWT elements in this perspective are "TWT Setup" frames rather than broadcast TWT. Also to avoid confusion please clarify setup in a clear way for both wake TBTT and broadcast IDs in one place so that it is easier to interpret.	As in comment.	2017/1/9 9:42
4845	Alfred Asterjadhi	225	1 27.7.3.2	183	51	T	Y	183.51 27.7.3.2	need to specify the value of the Wake TBTT Negotiation field. Also the STA "may" have membership in Broadcast TWT IDs as a result fo the negotiation of broadcast IDs..	As in comment.	2017/1/9 9:42
4846	Alfred Asterjadhi	225	1 27.7.3.2	183	60	T	Y	183.60 27.7.3.2	PLease list the possible values of this fields (Wake TBTT and broadcast, and their interpretation) when they are part of the TWT setup proeudre	As in comment. For both these paragraphs.	2017/1/9 9:42
4847	Alfred Asterjadhi	225	1 27.7.4.3	184	2	T	Y	184.02 27.7.4.3	Too limited. The AP should not include the AID of the STA in the Trigger frame in certain cases, but in other cases it could, e.g., the STA is in AM mode, etc.	As in comment.	2017/1/9 9:42
4848	Alfred Asterjadhi	225	1 27.7.3.2	184	23	T	Y	184.23 27.7.3.2	Outside of a trigger-enabled TWT. Same as the case of individual TWT descriptions.	As in comment	2017/1/9 9:42
4849	Alfred Asterjadhi	225	1 27.7.3.2	184	30	T	Y	184.30 27.7.3.2	As mentioned in the previous comment. the UL MU Response Schedulign can be considered a Trigger frame if it allows the STA to also send BSRs.	As in comment.	2017/1/9 9:42
4850	Alfred Asterjadhi	225	1 27.7.3.2	184	36	T	Y	184.36 27.7.3.2	"The TWT scheduling STA should schedule delivery of DL BUs during unannounced TWT SPs." is too vague. Cant the AP schedule DL BUs delivery when the STA has declared to be in awake state?	As in comment.	2017/1/9 9:42
4851	Alfred Asterjadhi	225	1 27.7.3.2	185	18	T	Y	185.18 27.7.3.2	Make sure that these rules are consistent with those of the individual TWT agreement case. Also not clear the context of the AM mode in this condition. Seems out of place.	As in comment.	2017/1/9 9:42

4852	Alfred Asterjadhi	225	1 9.3.1.8	33	65	T	Y	33.65 9.3.1.8	The BlockACKReq includes the BAR Control which also has the encoding of the BlockAckReq frame variant, and for different variants there can be a different length. Similar observation for the M-BA, that can have different lengths. Clarify that the lenghts that are defined as of now (11ax) are also applicable for future amendments to ensure forward compatibility.	Presentation to be provided	2017/1/9 9:42
4853	Allert Van Zelst	225	1 Contents		36	E	N	Contents	Page number 253 in index line not properly lined out	Line out page number 253 on the right	2017/1/9 9:42
4854	Allert Van Zelst	225	1 28.1.1	210	35	T	N	210.35 28.1.1	replace HE_TRIG PPDU by HE trigger-based PPDU	See comment	2017/1/9 9:42
4855	Allert Van Zelst	225	1 28.1.1	212	40	T	N	212.40 28.1.1	replace HE_TRIG PPDU by HE trigger-based PPDU	See comment	2017/1/9 9:42
4856	Allert Van Zelst	225	1 28.1.1	210	47	T	N	210.47 28.1.1	replace HE_EXT_SU by HE extended range SU	See comment	2017/1/9 9:42
4857	Allert Van Zelst	225	1 28.2.2	216	12	T	N	216.12 28.2.2	It looks like N_TX is not present for the HE formats	please change "Indicates the number of transmit chains." to "Not present" in the value column	2017/1/9 9:42
4858	Allert Van Zelst	225	1 28.2.2	216	48	T	N	216.48 28.2.2	Condition column seems to be in error	Change "FORMAT is HE_SU, HE_MU, HE_EXT_SU or HE_TRIG" to "FORMAT is HE_SU and PSDU_LENGTH is 0"	2017/1/9 9:42
4859	Allert Van Zelst	225	1 28.2.2	219	55	T	N	219.55 28.2.2	There is no DCM entry in Table 21-1	Change "See corresponding entry in Table 21-1 (TXVECTOR and RXVECTOR parameters)." to "Not present."	2017/1/9 9:42
4860	Allert Van Zelst	225	1 28.2.2	219	41	T	N	219.41 28.2.2	Is DCM only present in the TXVECTOR and RXVECTOR in case of MU?	I'd say, like STBC, it is present always? Definitely for the TXVECTOR, because the rate decision comes from a higher layer. Is it needed for the RXVECTOR?	2017/1/9 9:42
4861	Allert Van Zelst	225	1 28.2.2	218	12	T	N	218.12 28.2.2	Is FEC_CODING only present in the TXVECTOR and RXVECTOR in case of MU?	I'd say, like STBC, it is present always? Definitely for the TXVECTOR, because the rate decision comes from a higher layer. Is it needed for the RXVECTOR?	2017/1/9 9:42
4862	Allert Van Zelst	225	1 28.2.2	219	34	T	N	219.34 28.2.2	Is MCS only present in the TXVECTOR and RXVECTOR in case of MU?	I'd say, like STBC, it is present always? Definitely for the TXVECTOR, because the rate decision comes from a higher layer. Is it needed for the RXVECTOR?	2017/1/9 9:42
4863	Allert Van Zelst	225	1 28.3.3.1	228	16	T	N	228.16 28.3.3.1	Wrong reference in "The difference between OFDM and OFDMA is illustrated in Table 28-15 (CH_BANDWIDTH and for pre-HE modulated fields)."	Refer to Figure 28-1 instead	2017/1/9 9:42
4864	Bin Tian	225	1 28.3.9	264	49	E	Y	264.49 28.3.9	Remove "a STA" in "may support alpha_r in the grange "-	as in comment	2017/1/9 9:42
4865	Bin Tian	225	1 28.3.9	265	6	E	Y	265.06 28.3.9	Change to "HE trigger-based PPDU HE modulated flieds". The word "modulated" is missing	as in comment	2017/1/9 9:42
4866	Bin Tian	225	1 28.3.9	265	17	T	Y	265.17 28.3.9	The sentence " cardinality of the set of subcarriers modulated with data within Kr" may lead to confusion that only data subcarrier are counted. Change to "cardinality of the set of modulated subcarriers modulated within Kr"	as in comment	2017/1/9 9:42
4867	Bin Tian	225	1 28.3.9	265	35	T	Y	265.35 28.3.9	The cpation of table 28-14 needs to be reviese. This table doesn't directly provide Tone scaling factor. May change to Occupied subcarrier number for each field of HE PPDU	as in comment	2017/1/9 9:42
4868	Bin Tian	225	1 28.3.9	266	53	T	Y	266.53 28.3.9	Remove the sentence " Note that the mulitiplication matrices Ak_HE-LT ..." and the next one "when the TXVECTOR ...". The matix Ak_HE-LTF is not introduced here and carries the next level of details of how to generate HE-LTF, which is not needed here.	as in comment	2017/1/9 9:42
4869	Bin Tian	225	1 28.3.9	263	56	E	Y	263.56 28.3.9	Change to "In Equation (28-3) and (28-4), "	as in comment	2017/1/9 9:42

4870	Bin Tian	225	1 28.3.10.3	269	14	T	Y	269.14 28.3.10.3	Matrix A_HE_LTF only needs to be applied to HE -LTF and L-LTF when beamchange=0. It is not related to L-STF. Remove the A_HE-LTF from equation 28-8 and the explanation in line 29 .	as in comment		2017/1/9 9:42
4871	Bin Tian	225	1 28.3.11.4	336	55	E	Y	336.55 28.3.11.4	Move the explanation on Q_k_(iseg) below Eq 28-109 instead of Eq 29-110 since the variable first appears there.	as in comment		2017/1/9 9:42
4872	Bin Tian	225	1 28.3.17.3	345	64	E	Y	345.64 28.3.17.3	"specified in Table xx-a" . Should be Table 28-41	as in comment		2017/1/9 9:42
4873	Bin Tian	225	1 28.3.17.6.2	348	17	T	Y	348.17 28.3.17.6.2	Should update the note. Change all the references on clause 21 VHT to the caluse 28 HE receiver	as in comment		2017/1/9 9:42
4874	Bin Tian	225	1 28.4.3	372	45	E	N	372.45 28.4.3	Typo. Change to aCCAMidTime.	as in comment		2017/1/9 9:42
4875	Bin Tian	225	1 28.17.6.4	349	21	T	Y	349.21 28.17.6.4	One variable, OBSS_PD is used in the equation to compuate the CCA threshold for sec20, sec40 and sec80. Need to clarify that this OBSS_PD variable have differnt values in different BW.	as in comment		2017/1/9 9:42
4876	Bin Tian	225	1 28.3.18	350	1	E	N	350.01 28.3.18	Move the transmit specification subclause ahead of the receiver specification to be aligned with other amendments	as in comment		2017/1/9 9:42
4877	Bin Tian	225	1 28.3.1.18.4.4	356	8	T	Y	356.08 28.3.1.18.4.4	Change "Relative constellation error in an HE trigger-based PPDU (dB)" to " Relative constellation error in an HE trigger-based PPDU when transmit power is larger than the maximum power of MCS7 (dB)	as in comment		2017/1/9 9:42
4878	Bin Tian	225	1 28.3.1.18.4.4	357	31	T	Y	357.31 28.3.1.18.4.4	Change to "the i_s OFDMA symbol of frame i_f" in both line 31 and 34	as in comment		2017/1/9 9:42
4879	Bin Tian	225	1 28.3.1.18.4.4.	359	20	T	Y	359.20 28.3.1.18.4.4.	Remove the step h). The limit of unused tone EVE already defined in the step g).	as in comment		2017/1/9 9:42
4880	Bin Tian	225	1 28.3.12	338	61	T	Y	338.61 28.3.12	The variable name T_HE-PERAMBLE defined in line 61 and used in Equation 28-114 has a different meaning from that in equation 26-117 (P340 line 10). Suggest update the equation 28-114 and use the consistent definition of T_PREABMBLE as in Equation 26-117.	as in comment		2017/1/9 9:42
4881	Bin Tian	225	1 28.3.11.5.4	320	40	E	Y	320.40 28.3.11.5.4	Typo. Should be N_abits,u	as in comment		2017/1/9 9:42
4882	Bin Tian	225	1 28.3.14.1	340	53	E	Y	340.53 28.3.14.1	Change to "by the participating STAs to mitigate the synchronization and interference related issues at the AP." since power precorrection has nothing to do with synchronizatin issue	as in comment		2017/1/9 9:42
4883	Bin Tian	225	1 28.3.11.6	323	8	T	Y	323.08 28.3.11.6	In the equation, it shoud be k over upper-case S instead of lower-case s.	as in comment		2017/1/9 9:42
4884	Bin Tian	225	1 28.3.11.9	327	11	T	Y	327.11 28.3.11.9	Need to fix the sentences between line 11 and 15. Some words are missing	as in comment		2017/1/9 9:42
4885	Bin Tian	225	1 28.3.9	264	37	E	Y	264.37 28.3.9	Clean up the text on the conditiosns that power boosting factor = sqrt(2) and remove the redudanat "and 1 otherwise".	as in comment		2017/1/9 9:42
4886	Bin Tian	225	1 28.3.11.9	327	45	E	Y	327.45 28.3.11.9	Typo: The Nsd here refers to..	as in comment		2017/1/9 9:42
4887	Bin Tian	225	1 28.3.10.5	271	4	E	Y	271.04 28.3.10.5	Change "tones" to "subcarriers" and update the text to "The 4 extra subcarriers with indices [-28, -27,27 28] of L-SIG	as in comment		2017/1/9 9:42
4888	Bin Tian	225	1 28.3.10.5	271	49	E	Y	271.49 28.3.10.5	Should be p0 instead of P0	as in comment		2017/1/9 9:42
4889	Bin Tian	225	1 28.3.10.7.3	282	51	T	Y	282.51 28.3.10.7.3	HE SIG-B user specifi code block may content one or two user information so the the value of L should be 20 or 41.	as in comment		2017/1/9 9:42

4890 Bin Tian	225	1 28.3.10.8.4	290	39	T	Y	290.39 28.3.10.8.4	It states that the center 26RU indication in the HE-SIGB only presents for full bandwidth 80MHz, 160MHz and 80+80MHz, which is not correct. Center RU26 still needs to be indicated even in some of the preamble puncturing cases like only the 4th 20MHz channel puncture in 80MHz case. Remove the "full bandwidth" in the description. Make the samilar changes to the line 16 and line 17 in P291.	as in comment	2017/1/9 9:42
4891 Bin Tian	225	1 28.3.10.8.4	293	8	T	Y	293.08 28.3.10.8.4	Can clean up the description. No need to introduce another set of the parameters y[3]y[2]y[1]. Can write a formula to directly map y2y1y0 to the number of STAs multiplexed. May the samilar changes to the notes on other fields like z2z1z0, y1y0, z1z0,etc.	as in comment	2017/1/9 9:42
4892 Bin Tian	225	1 28.3.10.10	302	4	T	Y	302.04 28.3.10.10	1x LTF and 1.6us CI support for UL MU-MIMO (trigger-based PPDU) is listed as optional, which should be conditional mandatory.	Move the line 4 P302 to Line 62 P301.	2017/1/9 9:42
4893 Bin Tian	225	1 28.3.10.10	311	11	T	Y	311.11 28.3.10.10	Change "In an UL MU-MIMO transmission not using single stream pilots" to "In a full bandwidth UL MU-MIMO transmission not using 1x LTF or not using signal stream pilots in in HE-LTF"	as in comment	2017/1/9 9:42
4894 Bin Tian	225	1 28.3.3.10.5	240	41	E	Y	240.41 28.3.3.10.5	Change "UL MU-MIMO PPDUs" to "UL OFDMA/MU-MIMO PPDUs"	as in comment	2017/1/9 9:42
4895 Bin Tian	225	1 28.3.3.`9.5	240	47	T	Y	240.47 28.3.3.`9.5	When 1x LTF used in UL MU MIMO, no pilot is HE LTF. Add "or no pilots if 1x LTF is used" after "orthogonal code". Also add "for non 1x LTF" after "full bandwidth UL MU-MIMO transmission" in line 50	as in comment	2017/1/9 9:42
4896 Bin Tian	225	1 4.3.14a	9	46	T	Y	9.46 4.3.14a	Then sentences on Optional support of 1024QAM and HE-MCSs 10 and 11 are duplicated. Should be combined into one. Add optional support of UL MU MIMO	as in comment	2017/1/9 9:42
4897 Bin Tian	225	1 28.3.5	242	62	T	Y	242.62 28.3.5	"Spatial and frequency mapping(PHY Motion #172)" was introduced, but there is no spatial mapping happens other than old spatial mapping block.	change to "Frequency mapping"	2017/1/9 9:42
4898 Bin Tian	225	1 28.3.10.6	272	31	T	Y	272.31 28.3.10.6	It is better to write Eq (28-14) and (28-15) for RL-SIG in a same way as Eq (28-12) and (28-13) for L-SIG, to avoid any confusion	as in comment	2017/1/9 9:42
4899 Bin Tian	225	1 28.3.11.13	330	45	E	Y	330.45 28.3.11.13	both 28.3.3.4 (Pilot subcarriers) and 28.3.11.13 (Pilot subcarriers) have same title.	suggest to change the subclause title of 28.3.11.13 to Pilot mapping	2017/1/9 9:42
4900 Bo Sun	225	1 28.1.1	209	15	E	Y	209.15 28.1.1	The description for an HE STA operating in the 5 GHz band is confusing. The pre-requisite is for a common HE STA in line 11 without specific BW capability	Change to " - Clause 19 (High Throughput (HT) PHY specification) and Clause 21 (Very High Throughput (VHT) PHY specification) when the HE STA is of greater than or equal to 80MHz capability and is operating in the 5 GHz band. - Clause 19 (High Throughput (HT) PHY specification) when the HE STA is of 20 MHz only non-AP capability and is operating in the 5 GHz band. - Clause 19…"	2017/1/9 9:42
4901 Bo Sun	225	1 28.1.1	209	36	E	Y	209.36 28.1.1	The statement for downlink and uplink MU-MIMO transmissions is confusing	Change to "Both downlink and uplink MU-MIMO transmissions are supported on portions of the PPDU bandwidth (on resource units greater than or equal to 106 tones) and in an MU-MIMO resource unit with, there is support for up to eight users with up to four space-time streams per user iwth the total number of space-time streams not exceeding eight."	2017/1/9 9:42

4902 Bo Sun	225	1 28.1.1	209	41	T	Y	209.41 28.1.1	The HE PHY provides support of functions not depending on the frequency band and capability. The dependency to the frequency band and device's capability makes sense in an implementation.	Change to "..., depending on the frequency band and capability."	2017/1/9 9:42
4903 Bo Sun	225	1 28.1.1	209	44	T	Y	209.44 28.1.1	The channel puncturing transmisison brief is confusing. Especially, the "zero out" operation is not clear.	Change to "For channel widths greater than or equal to 80 MHz, the HE PHY supports channel puncturing transmissions where one or more of the non-primary 20 MHz channels in an HE MU PPDU with more than one RU is zeroed outare punctured.	2017/1/9 9:42
4904 Bo Sun	225	1 28.2.2	214	22	T	Y	214.22 28.2.2	RXVECTOR is also used in PHY-RXEND.indication primitive	Change to "....list in the PHY-RXSTART.indication primitive and PHY-RXEND.indication primitive."	2017/1/9 9:42
4905 Bo Sun	225	1 28.2	227	28	T	Y	227.28 28.2	Similar to VHT PHY part, the support to Non-HT, HT and VHT need to be described in the spec	Add a section to describe the support to Non-HT, HT and VHT	2017/1/9 9:42
4906 Bo Yu	225	1 28.3.10.10	313	23	T	Y	313.23 28.3.10.10	TGI in equations (28-58) and (28-59) should be replaced by TGI,HE-LTF. TGI is not defined.	as in comment	2017/1/9 9:42
4907 Bo Yu	225	1 28.3.10.4	270	14	T	Y	270.14 28.3.10.4	TGI,LegacyPreamble in equations (28-10) should be replaced by TGI,L-LTF.	as in comment	2017/1/9 9:42
4908 Brian Hart	225	1 27.16.2	206	22	T	Y	206.22 27.16.2	BSS color is defective with highly overlapped BSSs yet different colors. With mobile APs, ensuring highly overlapped BSSs always have the same color is infeasible	Define that non-fixed APs use BSS color = 0 (no color). This is a repeat of a D0.1 comment but was misunderstood during that CR. Being mroe specific, consider AP1 very near to AP2 and two STAs which are on either side of the APs: STA1 ---> AP1, AP2 <--- STA2. STA1 and STA2 want to transmit to AP1 and AP2 respectively. AP1 is a fixed AP, with a BSS color. AP2 is a mobile AP with an initially wel-chosen (and different) BSS color who has now wandered very close to AP1. STA1 and STA2 hear each other at say -77 or -72 or -67 dBm. Roughly speaking, under the proportional rule, because STA1 and STA2 have different colors, they can both transmit as long as they drop their TX power by 5 or 10 or 15 dB, respectively. And if they do transmit, then their transmissions collide at AP1 and AP2 - badness. This mitigated by RTS/CTS, but no STA has ever had to transmit an RTS because the overheads are ugly - do we	2017/1/9 9:42
4909 Brian Hart	225	1 27.16.2	206	22	T	Y	206.22 27.16.2	Unless every associated STA guarantees to awaken and read the BSS Color Change Announcement element in the Beacon at some minimum interval, the AP has no safe way to set the Color Switch Countdown field in this element so all STAS receive it in time. Without this, a color change will create more problems than it solves.	This BSS Color feature is grossly under-engineered for mobile devices and real-world issues. Re-analyze considering what can go wrong instead of what can go right. Fix the various instabilities arising from BSS Color, especially with mobile APs	2017/1/9 9:42
4910 Brian Hart	225	1 27.16.2	206	22	T	Y	206.22 27.16.2	Since clients might sleep for say 2 sec between beacon reading times, then a color change may take multiples of that before it can happen, which is uselessly slow for a mobile AP, such as one mounted on a bus.	This BSS Color feature is grossly under-engineered for mobile devices and real-world issues. Re-analyze considering what can go wrong instead of what can go right. Fix the various instabilities arising from BSS Color, especially with mobile APs. BTW, a looming change in BSS Color doesn't even change the Check Beacon field in the TIM frame, which shows how little thought has been put into this feature	2017/1/9 9:42

4911	Brian Hart	225	1 27.16.2	206	22	T	Y	206.22 27.16.2	Due to the dangerous power of a BSS Color change frame in the hands of a script kiddie, there should (must) be protected dual of this frame	This BSS Color feature is grossly under-engineered for mobile devices and real-world issues. Re-analyze considering what can go wrong instead of what can go right. Fix the various instabilities arising from BSS Color, especially with mobile APs	2017/1/9 9:42
4912	Brian Hart	225	1 28.3.10.7.2	280	6	T	Y	280.06 28.3.10.7.2	NOTE 1 looks pretty darn normative to me	Rewrite ot avoid a note. Perhaps add a section elsewhere and a xref to it from here	2017/1/9 9:42
4913	Brian Hart	225	1 28.3.10.7.2	281	27	T	Y	281.27 28.3.10.7.2	40M .. other 2 fields indicate identical values ... is ambiguous. Assume we have ab for P40 and cd need ot be defined . Is c=a, d=b,? OR c=b, d=a, or what?	Define what is identical to what	2017/1/9 9:42
4914	Brian Hart	225	1 28.3.10.7.2	282	39	E	N	282.39 28.3.10.7.2	"below <" is redundant	Delete <	2017/1/9 9:42
4915	Brian Hart	225	1 28.3.10.7.4	283	18	T	Y	283.18 28.3.10.7.4	"each containing 26 bits" is not true due to the memory of a BCC encoder. The first bits smear into the second symbol	Don't bother with A1 and A2. Just have HE-SIG-A with 52 bits. Affects several places. Ditto for HE Extended which I have ot guess should be perceived as 52+52 bits .. because here actually the distinction becomes really important. Are "A1 and A3" BCC encoded as a unit (with the state from A1 initializing the BCC encoder for A3", then "A2 and A4" are encoded as a unit? The para at P284L32 is GROSSLY unclear / misleading on this vital question	2017/1/9 9:42
4916	Brian Hart	225	1 28.3.10.7.4	284	46	E	Y	284.46 28.3.10.7.4	Data	data	2017/1/9 9:42
4917	Brian Hart	225	1 28.3.10.8.2	286	34	T	Y	286.34 28.3.10.8.2	Organization of HESIGB is mixed up. Start with data contents (28.3.10.8.1) and continued details 28.3.10.8.4 and 28.3.10.8.5, then work down to encoding / modulaiton / frequency mapping!	Reorganize: start with fields, and meaning of fields, then encoding then modulation then freq-domain mapping [Editor can take care of this but this MUST be done to convert me into a yes voter]	2017/1/9 9:42
4918	Brian Hart	225	1 28.3.10.8.1	286	7	T	Y	286.07 28.3.10.8.1	Figure is too small to read	Increase size of figure and text. Ditto figures on P286-288. Also, the curved arrows are quite unclear and seem to hide each other. What are they doing? Many seem to be missing - add	2017/1/9 9:42
4919	Brian Hart	225	1 28.3.10.8.1	287	15	E	N	287.15 28.3.10.8.1	Para is rather big to chew on	Break into 3 paras, at L22 and L37	2017/1/9 9:42
4920	Brian Hart	225	1 28.3.10.8.1	287	23	T	Y	287.23 28.3.10.8.1	It is very hard to discern if a STA with an RU within one 20M subchannle is guaranteed to get its PER STA Info field on that 20 M channel, or if it has to look at both 20M subchannels	Add an explicit statement here or somewhere underwhat circumstances "load balancing" of PER STA Info is allowed and when it is not. There is a para at P288L44 - but this only for Compression = 0. LB is referred to at P297L20 but this is for larger Rus only. This is all just too vague	2017/1/9 9:42
4921	Brian Hart	225	1 28.3.10.8.1	288	44	T	Y	288.44 28.3.10.8.1	"when SIGB Compression field ... is set to 0" - what happens when it is set to 1? Is that the content earlier in this section? If so be explicit	"when SIGB Compression field ... is set to 0" - what happens when it is set to 1? Is that the content earlier in this section? If so be explicit	2017/1/9 9:42
4922	Brian Hart	225	1 28.3.10.8.4	290	40	T	Y	290.40 28.3.10.8.4	"full bandwidth 80" is only use here (i.e. is undefined). And a naive reading would look at the last row of fig 28-4 (996 subcarriers) But there is no 26 RU there	Define "full bandwidth 80". I assume it must have a center tone 26?	2017/1/9 9:42
4923	Brian Hart	225	1 28.3.10.8.4	290	44	T	Y	290.44 28.3.10.8.4	"allocated ... with the same value" doesn't make sense	"and the contents of both allocations are the same" / "signal the same allocation" etc	2017/1/9 9:42
4924	Brian Hart	225	1 28.3.10.8.4	290	51	T	Y	290.51 28.3.10.8.4	"160 ... the center 26-tone RU" but aren't there two center 26 tone RUs in this case? Also I cannot make sense of the 160/80+80M text	Rewrite for greater clarity. Also, define the "otherwise" at L45 and L51, since this would help the explanation of this field	2017/1/9 9:42

4925	Brian Hart	225	1 27.15.4.3	203	54	T	Y	203.54 27.15.4.3	From deep practical experience, these rules are the workhorse and pot of gold for high density networks (during 11a, and 11n days, and continuing into VHT days). However D1.0 continues with the "should" logic that was a weak VHT compromise given the pre-ratification product being developed. However, given how early we are in 11ax, there is no technical or practical reason why this "should" shouldn't be upgraded to a "shall".	Replace "should" by "shall" in section 27.15.4.3 (2x)	2017/1/9 9:42
4926	Brian Hart	225	1 27.9.2.1	190	21	T	Y	190.21 27.9.2.1	This CCARESET is trying to say "don't let this PPDU cause CCA to report busy to the MAC". And a reset stops the reporting it cold. But if the PHY is oding mid PPDU detrection (e..g cyclic extension autocorr) then the PPDU can still be detected after the CCARESET	Add a new parameter to CCARESET. Call it "isReselDueToInterBssPpdu" or similar. This will signify: 1) if the PHY does intra PPDU detection, (say cyclic extension autocorrelation or DSSS spreading sequence xcorr), then don't retrigger on something with the same characteristics after a CCARESET until the end of the PPDU. And 2) the parameter will also indicate that CCA issues an IDLE indication immediately after a CCARESET primitive if isReselDueToInterBssPpdu is included and true.	2017/1/9 9:42
4927	Brian Hart	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	"The BSS Color field is an unsigned integer whose value is the BSS color of the BSS corresponding to the AP which transmitted this element, except that a value of 0 in this field indicates that there is no BSS color for this BSS." - BSS Color is also needed for IBSSs otherwise they get priority over infra BSSs	Actually this para looks like an inferior version of the para at P91L44. So delete lines 39-42. Also generalize "AP" as appropriate at P92L19/28 para, P149L40, P150L10, P197L1-28, etc	2017/1/9 9:42
4928	Brian Hart	225	1 27.2.1	149	16	T	Y	149.16 27.2.1	OBSS interference should be minimized with NDP PPDUs in order that MU works reliably.	Therefore the proportional CCA rule should be disabled during NDP PPDUs (and, related concern, PPDUs containing FTM frames). Changes at P190L30	2017/1/9 9:42
4929	Brian Hart	225	1 28.1.1	209	15	E	N	209.15 28.1.1	Unclear language	Insert commas etc. "STA with greater than or equal ot 80M capability is" => "STA, with greater than or equal ot 80M capability, is" or "STA, that has greater than or equal ot 80M capability, is"	2017/1/9 9:42
4930	Brian Hart	225	1 28.1.1	210	25	T	Y	210.25 28.1.1	If a STA supports more than 4SS, it's not a low complexity / low cost device. N oreason for it not to support LDPC	Ditto P210L29. Strike out "except when the STA is ... 20 MHz only non-AP STA". Need to update P210L60 et passim also	2017/1/9 9:42
4931	Brian Hart	225	1 28.1.1	210	31	T	Y	210.31 28.1.1	"LDPC when declaring support for MCS10 and MCS11"	Is this for TX or RX or both? And all supported PPDU types, RU sizes etc? Be specific	2017/1/9 9:42
4932	Brian Hart	225	1 9.4.2.218.4	71	29	T	Y	71.29 9.4.2.218.4	Maximum thruput per area is achieved at a middling MCS - not too low (sets NAV too far away) and not too high (area that must be suppressed in order to achieve an adequate SINR for MCS10/11 is inefficiently high). But the HE Operation/HE Capability signalling does not permit 64QAM MCSs to be deleted	Use the Reserved values to lower the max MCS to 4/5/6 as an AP's policy choice for the BSS for high density deployments	2017/1/9 9:42
4933	Brian Hart	225	1 28.1.1	210	37	E	N	210.37 28.1.1	Two bullets when 1 suffices	Combine bullets at L37 and 42 "0.8 and 1.6us ..."	2017/1/9 9:42
4934	Brian Hart	225	1 28.1.1	210	49	T	Y	210.49 28.1.1	"applicable" in "all RU sizes and locations applicable to the 20 MHz channel width" is vague	Provide a rigorous definition: e.g. via a cross reference to a table.	2017/1/9 9:42
4935	Brian Hart	225	1 28.1.1	211	7	T	Y	211.07 28.1.1	If 11n taught us anything, long range modes should be mandatory or deleted from the draft. The status quo involves too many MAC work-arounds and/or little likelihood of adoption	Make this mandaotry or remove this mode	2017/1/9 9:42
4936	Brian Hart	225	1 28.1.1	211	54	T	Y	211.54 28.1.1	Maximum number of SSs per user, at 4, is too low	AP antenna counts will only increase: min value should be 8 for practically important client antenna counts. See also P212L32	2017/1/9 9:42

4937 Brian Hart	225	1 28.1.1	211	62	T	Y	211.62 28.1.1	Maximum number of SSs for explicit feedback, at 4, is too low	AP antenna counts will only increase: min value should be 8 for practically important client antenna counts. See als P12L35	2017/1/9 9:42
4938 Brian Hart	225	1 28.1.1	212	2	E	N	212.02 28.1.1	So many missing articles!	in the 5G band. P212L5. "in the 5 G band"; P218L43 "in the case of an HE-MU PPDU". P237L19 - this para needs about 11 articles to be added. P238L13 - this para needs a lot of articles to be added. P238L62 "the RUs in the current". P238L60 "the SIGB". P240L40 - this para needs a lot of articles to be added. P240L54 "the Trigger frame". P245L32, add two articles. P260L10/30/40 "at the rth". P282L39. "The same ... both".P287L23 "and a User Specific field"	2017/1/9 9:42
4939 Brian Hart	225	1 28.1.1	212	36	E	N	212.36 28.1.1	Consistency for HE_TRIG	HE trigger-based PPDU" at L36 but "HE_TRIG" at line 40. Use HE_TRIG PPDU" everywhere in PHY section	2017/1/9 9:42
4940 Brian Hart	225	1 28.2.2	216	12	T	Y	216.12 28.2.2	N_TX is incorrectly reported as not needed for 11ax	Replace by "Y N" N_TX is needed since there is CSD per TX chain in the preamble, which depends on the number of TX chains	2017/1/9 9:42
4941 Brian Hart	225	1 28.2.2	217	30	T	Y	217.30 28.2.2	RCPI should be per RU in OFDMA	RCPI should be per RU in OFDMA	2017/1/9 9:42
4942 Brian Hart	225	1 28.2.2	217	37	E	N	217.37 28.2.2	"For and"	"For an"	2017/1/9 9:42
4943 Brian Hart	225	1 28.2.2	217	38	T	Y	217.38 28.2.2	"for each SS" but should be RU-aware also	For the STA recipient, this should be for the STA's RU. "of the user" partly captures this, but not precisely enough. Ditto P217L43	2017/1/9 9:42
4944 Brian Hart	225	1 28.2.2	218	4	T	Y	218.04 28.2.2	NO_SIG_EXTN is marked at NN but needed for 2.4G - see P270L47	Add for 2.4G	2017/1/9 9:42
4945 Brian Hart	225	1 28.2.2	218	14	T	Y	218.14 28.2.2	Named constants BCC_CODING/LDPC_CODING are defined but then all-but-never used later in this section	Use named constants in the PHY clause instead of loose language like "This figure also applies to the data field with LDPC encoding in an HE trigger-based PPDU." Or remove the named constants ...	2017/1/9 9:42
4946 Brian Hart	225	1 28.2.2	218	35	T	Y	218.35 28.2.2	"Payload" is loose	Replace by "Data field". 4x in this cell. Also check elsewhere	2017/1/9 9:42
4947 Brian Hart	225	1 28.2.2	218	43	T	Y	218.43 28.2.2	Loose language	Should be "STBC is not applied to an RU in a HE MU PPDU if the RU is assigned to more than 1 user. Also move after "HE MU PPDU" language ending at L37.	2017/1/9 9:42
4948 Brian Hart	225	1 28.2.2	218	36	E	N	218.36 28.2.2	Poor language	"all RUs are not " => "no RU is"	2017/1/9 9:42
4949 Brian Hart	225	1 28.2.2	218	44	T	Y	218.44 28.2.2	Rogue language	"STBC is set ot 0 to indicate ... payload" Unclear what this sentence is doing. IS it clarification? Is it conflicting/overloading other definitions here? What PPDU format(s) does it apply to? Clarify	2017/1/9 9:42
4950 Brian Hart	225	1 28.2.2	219	60	T	Y	219.60 28.2.2	Loose language	Does integer 0 mean MCS0 and integer 5 mean MCS5? OR something else? Be specific	2017/1/9 9:42
4951 Brian Hart	225	1 28.2.2	221	33	T	Y	221.33 28.2.2	Note is unsupported	Add a xref to the stmt that "CH_BANDWIDTH does not represent" ... e.g .ensure it is clear what does represent the chanel width	2017/1/9 9:42
4952 Brian Hart	225	1 28.2.2	223	41	E	N	223.41 28.2.2	"One to 4 values" ... i.e. a vector	Rewrite, defining this to be a vector parameter of length 1 to 4	2017/1/9 9:42
4953 Brian Hart	225	1 28.2.2	223	51	T	Y	223.51 28.2.2	Missing detail	I've searched the spec for the impact of this parameter and nowhere can I find it defined. "B20 indicates transmitting STA supports transmitting HE PPDUs with Doppler procedure" and "The Doppler subfield indicates a high doppler mode of transmission." are uselessly vague. Add detail. Write exactly what does the TX PHY do differently when this parameter is true	2017/1/9 9:42
4954 Brian Hart	225	1 28.2.2	224	15	T	Y	224.15 28.2.2	Cannot parse this description "Each 8 bit per 20MHz PPDU BW for singlaling | The RU assignment ....."	Clarify	2017/1/9 9:42

4955	Brian Hart	225	1 28.2.2	224	49	T	Y	224.49 28.2.2	Allowed values of HE_LTF_MODE are unspcified. True/false, or other?	Define allows values, then use them in rest of section. Also P224L51, does the "it" refer to HE_LTF_MODE or "a mask on each SS". Basically, replace the "it"	2017/1/9 9:42
4956	Brian Hart	225	1 28.2.2	224	57	E	N	224.57 28.2.2	"HE-LTF symbols" is loose language	"Number of OFDM symbols in the HE LTF field"	2017/1/9 9:42
4957	Brian Hart	225	1 28.2.2	225	4	T	Y	225.04 28.2.2	"Reserved" is the wrong name for a field that is not set to 0 on TX according to 27.5.2.3.	Rename the PLCP bit from "HE-SIG-A Reserved", and probably rename this parameter - too e.g. HE_SIGA_COPIED_FIELD or something	2017/1/9 9:42
4958	Brian Hart	225	1 28.2.2	225	15	T	Y	225.15 28.2.2	"global space time streams" is used in this one place and never defined	Define what this means, or reword using standard/used/defined words.	2017/1/9 9:42
4959	Brian Hart	225	1 28.2.2	226	15	T	Y	226.15 28.2.2	"mapped differently" is vague.	Needs additional detail (e.g. in the same way as the pre-VHT portion of a VHT PPDU) or a xref	2017/1/9 9:42
4960	Brian Hart	225	1 28.2.2	226	37	T	Y	226.37 28.2.2	Is this still a list on RX? And by saying "MU" under TX, isn't this an entry a single STA ID; and the list comes form tnhe "MU" semantics?	Change to "one STA ID that is intended recipient of the HE MU PPDU ..."	2017/1/9 9:42
4961	Brian Hart	225	1 28.3.2.1	227	48	E	N	227.48 28.3.2.1	"MU transmissions" is confusing since MU PPDUs are DL only and often we use "Transmission as a synonym for PPD"	Replace by "HE supports both DL MU and UL MU ..."	2017/1/9 9:42
4962	Brian Hart	225	1 28.3.3.1	228	17	E	N	228.17 28.3.3.1	28-15 is wrong xref	28-1	2017/1/9 9:42
4963	Brian Hart	225	1 28.3.3.1	228	17	T	Y	228.17 28.3.3.1	Not clear what is in and out of scope of std	Insert "The allocation of users to subchannels and powers to users is out of scope of this standard"	2017/1/9 9:42
4964	Brian Hart	225	1 28.3.3.1	228	59	T	Y	228.59 28.3.3.1	AFAIK, always more than 1 DC subcarrier	DC subcarrier => DC subcarriers	2017/1/9 9:42
4965	Brian Hart	225	1 28.3.3.2	229	4	E	N	229.04 28.3.3.2	and ... and	Change to 484 tone RU, 996 tone RU and ...	2017/1/9 9:42
4966	Brian Hart	225	1 28.3.3.2	229	4	T	Y	229.04 28.3.3.2	"DFS channel" is undefined .. and practically time-varying	Reference Operating Classes with a defined BehaviorLimit associated with DFS from Annex D/E	2017/1/9 9:42
4967	Brian Hart	225	1 28.3.3.2	229	10	T	Y	229.10 28.3.3.2	Friendly legacy APs tolerant of narrow PPDUs have no way to upgrade their SW to declare they can tolerate narrow Rus	Add a Extended Capability bit for legacy APs to be able to declare "Even if I'm here, don't block usage of narrow RUS on my account"	2017/1/9 9:42
4968	Brian Hart	225	1 28.3.3.2	229	30	E	N	229.30 28.3.3.2	MHZ	MHz	2017/1/9 9:42
4969	Brian Hart	225	1 28.3.3.2	230	11	T	Y	230.11 28.3.3.2	I like the notation but AFAIK it is not defined in the std.	Every table where we use Matlab notation, define it in a footnote. Including "," as a concatenation operator, e.g.: "[-16:-4, 4:16]" which is otherwise especially opaque	2017/1/9 9:42
4970	Brian Hart	225	1 28.3.3.2	233	8	T	Y	233.08 28.3.3.2	RUs are not labelled. Helpful especially for 20M only STAs	Also P234L7, P232L16. Add "RU0, RU1 ..." above each RU matching tables 28-3. -5	2017/1/9 9:42
4971	Brian Hart	225	1 28.3.3.4	236	34	T	Y	236.34 28.3.3.4	"If pilot subcarriers are present in the HE-LTF field" is vague	Specify which formats this applies to and provide a cross-ref	2017/1/9 9:42
4972	Brian Hart	225	1 28.3.3.4	236	34	T	Y	236.34 28.3.3.4	Table 28-7 is misleading / confusing for PPDUs with different RU widths. E.g., as written, a 20 MHz PPDU can only be a mix of 26 or 52 RUs, or a mix of 106/242 Rus. But what about PPDUs that is a mix of 26, 52 and 106 RUs?	Need an extra level of indirection: e.g. if an RU is a 26 or 52 tone RU with a range of subcarreirs defined in table xxx, and a tone number listed in the RHS column falls within that range, then that RHS tone number is a pilot tone. Add clarifying language	2017/1/9 9:42
4973	Brian Hart	225	1 28.3.3.5	237	22	E	N	237.22 28.3.3.5	"DL-OFDMA" is a modifier for a noun but the noun is missing	DL-OFDMA PPDU. Ditto UL-OFDMA PPDU	2017/1/9 9:42
4974	Brian Hart	225	1 28.3.3.5	237	31	T	Y	237.31 28.3.3.5	20 MHz STAs as defined here are catstrophically inefficient (limited RU usage, unbalanced user density on P20, all leading to inefficient scheduling choices for AP) and therefore are out of scope of the 11ax PAR	Signifincat improvements by a) AP allocates a 20M to a 20M only STA, and/or b) a 20M STA has wide enough RX BW (e.g. 40M) that it can receive any RU within 20M, and/or c) AP can prohibit a STA from operating in 20M only mode and/or d) change the RU plan so there is always a single 26RU that spans the 20M boundaries, or add such a plan. Basically strike out P237 L30-52 and replace with something permitted by the PAR. Or move this to a new amendment with a PAR that permits such inefficient operation	2017/1/9 9:42
4975	Brian Hart	225	1 28.3.3.7	238	21	E	N	238.21 28.3.3.7	Why both 28.3.3.7 and 28.3.3.8	Merge into 28.3.3.8	2017/1/9 9:42

4976	Brian Hart	225	1 28.3.3.8.2	238	51	T	Y	238.51 28.3.3.8.2	Para is improperly introduced	Why have this para is it is the same ... just generalize the above para's! Well, because this feature is optional. So then need to start with that constraint, for clarity ... or just dup the content with the new rider that it its for MU-MIMO+DL-OFDMA. BUT, cleaner is probably to define what PPDUs are possible, then define what STAs have to support and may support ... i.e. rewrite for clarity. Finally, "Aforementioned" ... where does the "fore" stop? Need to define (add "in this sub-section")		2017/1/9 9:42
4977	Brian Hart	225	1 28.3.3.8.3	238	64	E	N	238.64 28.3.3.8.3	Missing paired comma for vocative	",NUSerr" => ", Nuserr,"		2017/1/9 9:42
4978	Brian Hart	225	1 28.3.3.10.2	240	3	T	Y	240.03 28.3.3.10.2	"A STA capable of" is vague - refer to specific transmitted field in capability element	"A STA capable of" is vague - refer to specific transmitted field in capability element. Ditto P240L11 and P240L14		2017/1/9 9:42
4979	Brian Hart	225	1 28.3.3.10.3	240	11	T	Y	240.11 28.3.3.10.3	"single stream pilot" and "masking LTF sequence of each SS by a distrinct orth code" are really verbiage used for specific terms.	Create defined terms for these, with initial caps. E.g. "HE Single Stream Pilots" versus "HE Masked Pilots". Put definition in this section or section 3 as appropriate		2017/1/9 9:42
4980	Brian Hart	225	1 28.3.3.10.5	240	40	E	N	240.40 28.3.3.10.5	"about when is loose	"the ... about when" => "to the ...when"		2017/1/9 9:42
4981	Brian Hart	225	1 28.3.3.10.5	240	55	T	Y	240.55 28.3.3.10.5	"will not" is not IEEE language	"shall not"		2017/1/9 9:42
4982	Brian Hart	225	1 28.3.5	246	1	E	N	246.01 28.3.5	data field	Data field		2017/1/9 9:42
4983	Brian Hart	225	1 28.3.8	257	25	T	Y	257.25 28.3.8	Too vague	Prepend "OFDM". Append " of the Data field"		2017/1/9 9:42
4984	Brian Hart	225	1 28.3.8	257	61	E	Y	257.61 28.3.8	Bad caps	sum => Sum		2017/1/9 9:42
4985	Brian Hart	225	1 28.3.8	260	57	T	Y	260.57 28.3.8	Kr definition is not clear	This is the set of used/non-zero subcarrier indices. Add "used" / "non-zero"		2017/1/9 9:42
4986	Brian Hart	225	1 28.3.8	261	10	T	Y	261.10 28.3.8	u,u should be u,ú'	u,u should be u,ú'		2017/1/9 9:42
4987	Brian Hart	225	1 28.3.8	261	10	T	Y	261.10 28.3.8	Mr,n is not diven an English meaning	Add something like "The number of stace time streams of users prior to user r in RU u"		2017/1/9 9:42
4988	Brian Hart	225	1 9.3.1.23	42	17	T	Y	42.17 9.3.1.23	Packets are generally L3 entities. Replace "Packet extension" by "PPDU Extension" throughout the draft	Packets are generally L3 entities. Replace "Packet extension" by "PPDU Extension" throughout the draft (61x)		2017/1/9 9:42
4989	Brian Hart	225	1 28.3.8	260	55	T	Y	260.55 28.3.8	No formula for N_HE_SIGB	Add a formula for N_HE_SIGB (or a least min value of N_HE_SIGB given the number of users, the PPDU BW and the SIGB MCS), and xref it from here		2017/1/9 9:42
4990	Brian Hart	225	1 28.3.9	263	52	T	Y	263.52 28.3.9	"Total power should not exceed ..." ... this flexiblty is OK if BEAM_CHANGE=1, but this flexibility should be prohibitied (same power before and after) if BEAM_CHANGE=0	"Total power should not exceed ..." ... this flexiblty is OK if BEAM_CHANGE=1, but this flexibility should be prohibitied (same power before and after) if BEAM_CHANGE=0		2017/1/9 9:42
4991	Brian Hart	225	1 28.3.9	264	39	E	N	264.39 28.3.9	Missing "for"	sqrt(2) for all		2017/1/9 9:42
4992	Brian Hart	225	1 28.3.9	264	45	E	N	264.45 28.3.9	"and 1 otherwise" is too weak given it is "otherwise" to 2 earlier conditions but 1 condition is in a separate sentence	Add semicolon after LSTF..HE-LTF sentence as per "ext range SU PPDU; for the LSIG ...; and 1 otherwise		2017/1/9 9:42
4993	Brian Hart	225	1 28.3.9	264	50	T	Y	264.50 28.3.9	Signalling for this optional mode is unclear	Add a xref to Power Boost Factor +Ý Support in HE Cap. And when that is advertised as true hten the STA *shall* support [0.5;2]		2017/1/9 9:42
4994	Brian Hart	225	1 28.3.9	266	51	T	Y	266.51 28.3.9	"Note that ..." ... need a reference to a normative stmt to make this note trustworthy	Add xref		2017/1/9 9:42
4995	Brian Hart	225	1 28.3.10.2.1	267	61	T	Y	267.61 28.3.10.2.1	"transmit chain index of each STA" but what if STA has more than 1 chain?	"transmit chain indices of the transmit chains of each STA"		2017/1/9 9:42
4996	Brian Hart	225	1 28.3.10.7.2	273	54	T	Y	273.54 28.3.10.7.2	DCM/STBC field descriptions are inconsistent with GI+LTF Size field	"Set to 1 to indicate that DCM is applied" but DCM=1 & STBC=1 means 4x HE-LTF from P274L36. Correct descriptions of DCM and STBC at P275L17 accounting forf this exceptional encoding		2017/1/9 9:42
4997	Brian Hart	225	1 28.3.10.7.2	274	10	T	Y	274.10 28.3.10.7.2	"This part needs further development"	This is a trivial rewording of "TBD" and so this draft should not have been submitted for LB. Continue to refine the draft to remove all TBDs and rewordings of TBD		2017/1/9 9:42
4998	Brian Hart	225	1 28.3.10.7.2	274	25	E	N	274.25 28.3.10.7.2	"right 106-tone RU"	Right => upper		2017/1/9 9:42
4999	Carol Ansley	225	1 4.3.14a	9	2127	E	Y	30.27 4.3.14a	lines are repetitive with the previous bullets. What purpose do they serve?	remove these lines		2017/1/9 9:42

5000	Carol Ansley	225	1 9.2.4.6.4.5	26		E	Y	26.00 9.2.4.6.4.5	sentence is confusing - "...indicate that the buffer status of the AC, which ACI is identified by the location of the bit in the ACI Bitmap subfield, is reported and set to 0 otherwise.'	Reword to clarify meaning. Suggested wording: "... indicate that the buffer status of the corresponding AC is reported and set to 0 otherwise."	2017/1/9 9:42
5001	Carol Ansley	225	1 9.2.5.7	32		E	Y	32.00 9.2.5.7	awkward wording: ".. The rule of setting Duration/ID field is described.."	Reword to "... the rules for setting the Duration/ID field are described..."	2017/1/9 9:42
5002	Carol Ansley	225	1 9.3.1.9.7	37	60	E	Y	37.60 9.3.1.9.7	missing "the": "When Multi-STA BlockAck variant is intended..."	Reword to "When the Multi-STA BlockAck variant is intended..."	2017/1/9 9:42
5003	Carol Ansley	225	1 9.3.1.9.7	38	17	E	Y	38.17 9.3.1.9.7	poor grammar: "the presence of each optional subfields"	Reword to: "the presence of each optional subfield"	2017/1/9 9:42
5004	Carol Ansley	225	1 9.3.1.20	41	1	E	Y	41.01 9.3.1.20	missing space: "inTable" and no period at end of sentence	Add space: "in Table", and period at end of sentence	2017/1/9 9:42
5005	Carol Ansley	225	1 9.3.1.20	41	28	E	Y	41.28 9.3.1.20	poor grammar: " determining it's AID"	Reword: "determining its AID"	2017/1/9 9:42
5006	Carol Ansley	225	1 9.3.1.23	44		E	Y	44.00 9.3.1.23	poor grammar: "The LDPC Extra Symbol Segment subfield of the Common Info field indicates the status of LDPC extra symbol segment. It is set to 1 when LDPC extra symbol segment is present and set to 0 otherwise."	Reword: "The LDPC Extra Symbol Segment subfield of the Common Info field indicates the status of the LDPC extra symbol segment. It is set to 1 when a LDPC extra symbol segment is present and set to 0 otherwise."	2017/1/9 9:42
5007	Carol Ansley	225	1 9.3.1.23	45	6	E	Y	45.06 9.3.1.23	poor grammar: "When operating 40 MHz in 2.4GHz band, two SR fields, SR field 1 and SR field 2, are set to same values."	Reword: "When operating 40 MHz in the 2.4GHz band, SR field 1 and SR field 2 are set to same value."	2017/1/9 9:42
5008	Carol Ansley	225	1 9.3.1.23	45	14	E	Y	45.14 9.3.1.23	poor grammar: "The HE-SIG-A Reserved subfield indicate the values..."	Reword: "The HE-SIG-A Reserved subfield indicates the values..."	2017/1/9 9:42
5009	Carol Ansley	225	1 9.3.1.23	46		E	Y	46.00 9.3.1.23	Confusing wording for bit map descriptions. Example: "B19-B13 are 0000000 indicates 26-tone RU1 [-121: -96],"	Suggest to reword the paragraphs removing the "B19-B13 are" fragments repeated across the 3 paragraphs.	2017/1/9 9:42
5010	Carol Ansley	225	1 9.3.1.23	47		E	Y	47.00 9.3.1.23	Confusing Wording: "The Padding field of the Trigger frame, if present, is an integer number of octets >= 2: Padding field starts with special STAID[11:0] as 0xFFF and the rest bits of the Padding field are all set to one. 0xFFF is reserved as the special value to indicate the start of the MAC padding.	Suggest: "The Padding field of the Trigger frame, if present, is an integer number of octets >= 2. The Padding field may start with special STAID[11:0] = 0xFFF and the other bits of the Padding field are set to one to indicate the start of the MAC padding." I'm not sure if this is what was meant by the original text.	2017/1/9 9:42
5011	Carol Ansley	225	1			G	Y		I am concerned that the current draft has not been shown to provide the level of performance improvement specified in the PAR. While a lot of work has gone into this draft, it seems premature to stop work on the technical aspects if there are any other improvements that could be added to help this amendment reach its avowed goal.		2017/1/9 9:42
5012	Chao Chun Wang	225	1 9.3.1.23	47	24	T	N	47.24 9.3.1.23	For "target RSSI" in Trigger frame's per-user info, HT mentioned this value is normalized by 20 MHz bandwidth. However, D1.0 never mentioned this part in Table 9-25g.	Spec should add this statement about normalization unit to prevent interop issue	2017/1/9 9:42
5013	Chao Chun Wang	225	1 9.2.4.6.4.5			T	N	9.2.4.6.4.5	For BSR, trigger frame can using the type of BSRP to query the necessary information by AP itself. However, there is no trigger type for "UL power headroom"	Spec should define a new type for "UL power headroom". With this type, AP can decide when to query A-Control with this value by itself, rather than event-driven report by STA.	2017/1/9 9:42
5014	Chao Chun Wang	225	1 9.2.4.6.4.7			T	N	9.2.4.6.4.7	For BQR, trigger frame can using the type of BQRP to query the necessary information by AP itself. However, there is no trigger type for "UL power headroom" 1) Spec should define a new type for "UL power headroom". With this type, AP can decide when to query A-Control with this value by itself, rather than event-driven report by STA.	Spec should define a new type for "UL power headroom". With this type, AP can decide when to query A-Control with this value by itself, rather than event-driven report by STA.	2017/1/9 9:42

5015 Chao Chun Wang	225	1 9.4..2.221	94	64	E	N	94.64 9.4..2.221	The term, Basic variant Trigger frame, in " ... after reception of a Basic variant Trigger frame ..." is different from the definition in 9.3.1.23.1. In 9.3.1.23.1 Basic Trigger variant clause, trigger frame is described as, "If the Trigger frame is a Basic Trigger variant, ..." The "Basic variant Trigger frame" appears three times and "Basic Trigger variant" appear 14 times in the specification.	Revising the inconsistency of the usage of the terminology		2017/1/9 9:42
5016 Chao Chun Wang	225	1 27.5.2.1	164		E	N	164.00 27.5.2.1	The following two paragraphs are hard to read and have errors that make it very confusing. (1) "A STA shall not transmit a Trigger frame assigning an MU-MIMO RU in an UL OFDMA PPDU when the RU does not span that entire PPDU bandwidth to a STA from which it has not received an HE Capabilities element with B23 of the UL MU subfield of the HE PHY Capabilities Information field set to 1." and (2) "A STA shall not transmit a Trigger frame soliciting a full bandwidth UL MU-MIMO HE trigger-based PPDU from a STA from which it has not received an HE Capabilities element with B22 of the UL MU subfield of the HE PHY Capabilities Information field set to 1."	Revising the sentences as follows: (1) An AP shall not transmit a trigger frame assigning an MU-MIMO RU, which does not span the entire PPDU bandwidth, to a STA from which it has not received an HE Capabilities element with B23 of the UL MU subfield of the HE PHY Capabilities Information field set to 1 and (2) An AP shall not transmit a Trigger frame soliciting a full bandwidth UL MU-MIMO HE trigger-based PPDU from a STA from which it has not received an HE Capabilities element with B22 of the UL MU subfield of the HE PHY Capabilities Information field set to 1.		2017/1/9 9:42
5017 Chao Chun Wang	225	1 27.5.2.1.1	165		T	N	165.00 27.5.2.1.1	Clauses 27.5.2.2 Rules for soliciting UL MU frames has the following statement, "A non-AP STA shall not send a Trigger frame or an MPDU carrying an UL MU Response Scheduling A-Control field." To more efficiently support peer-to-peer operations in HE BSS, a non-AP STA that is capable of managing operation with basic trigger variant frame should be allowed to send trigger frame for soliciting OFMDA frames from multiple STAs. It is beneficial for HE STAs and BSS.	Adding text to support MU OFDMA-capable non-AP STA to manage basic trigger variant frame operation in peer-to-peer mode. commentator will submit text.		2017/1/9 9:42
5018 Chao Chun Wang	225	1 27.5.2.6	172		T	N	172.00 27.5.2.6	The following cells are all part of the one comment. The clauses describing the UL OFDMA RA is very confusing and problematic. List of issues are below.	Revising the clauses to (1) Reduce the number of combinations of type of access an AP can schedule in one trigger frame. For example, associated STA only or associated STA for data frame only, unassociated STA only or unassociated STA for management frame and e.t.c. (2) Disallow a trigger frame to allocate both scheduled and random access RUs. A trigger frame shall either have all RA RUs or all scheduled RUs. The commentator volunteer to re-write the clauses.		2017/1/9 9:42
5019 Chao Chun Wang	225	1			T	N		(1) Is UL OFDMA RA for associated or unassociated STA? It seems UL OFDMA RA can not be accessed by un-associated STAs, since an STA must announce its support of UL OFDMA RA in HE capabilities element. It is stated in clause ... "A STA shall set the UL OFDMA RA Support subfield in the HE Capabilities element to 1 if it supports UL OFDMA-based random access and set it 0, otherwise." But on clause ...., the specification also stat that AP will indicate whether an un-associated STA can access the RU slots as stated in clause ...			2017/1/9 9:42

5020	Chao Chun Wang	225	1			T	N		... if the value of the AID12 subfield of the User Info field is equal to the AID of the STA or to 0 (indicating a random access allocation). A value of 0 also indicates that nonassociated STAs can transmit on the allocated resource using the random access procedure as described in 27.5.2.6 (UL OFDMA-based random access).			2017/1/9 9:42
5021	Chao Chun Wang	225	1			T	N		The option to support UL OFMA RA for un-associated STAs is also problematic. If an AP does not know whether there are un-associated STAs waiting for UL OFDMA RA opportunities and whether the un-associated STAs are capable of supporting UL OFDMA RA, how an AP would schedule RA RU for un-associated STAs. There is also no evidence that including the option will benefit HE BSS			2017/1/9 9:42
5022	Chao Chun Wang	225	1			T	N		(2) The rules (or lack of it) about how UL OFDMA RA should be used create a huge challenge for chip design. The D 1.0 specification allows AP to allocated UL OFDMA RA opportunities in one trigger frame for associated and un-associated STAs, and for management and date frames with no restriction on the size of the frames. The D 1.0 specification also allows AP to allocated UL OFDMA RA RU with UL OFDMA scheduled RU. The number of combinations and varieties of receiving frame types, scheduled and random accessed, associated and unassociated, data and management frames; posing a huge challenge for the design of receiver while the option provides little benefit.			2017/1/9 9:42
5023	Chao Chun Wang	225	1			T	N		There are a couple of issues with the unrestricted use of UL OFMA RA in trigger-access opportunity. (a) Un-associated STA can't send data frame while associated STA may send both data and management frames. (b) The management functions for associated, and un-associated STA are different and the size of frames may be very different. (c) It is unclear why an AP would schedule RUs for un-associated STAs and not using all available RUs for associated STAs to send UL data. (d) Mixing UL OFMA RA opportunities in one triggered-access duration for associated and un-associated STAs makes little sense. There are many parameters need to consider by AP in order to decide the suitable duration for the UL transmission slot. Any remedy to address the duration issue tends to increase the complexity of the feature.			2017/1/9 9:42
5024	Chittabrata Ghosh	225	1 27.2.2	5	42	E	N	5.42 27.2.2	Page 5, Line 42: Please replace the sentence "Note 1 - If a PS-Poll is received carried in a received HE SU PPDU, ..." with "Note 1 - If a PS-Poll is carried in a received HE SU PPDU, ..."	As in comment		2017/1/9 9:42
5025	Chittabrata Ghosh	225	1 9.2.4.6.4.1	25	18	T	N	25.18 9.2.4.6.4.1	Table 9-18a: Page 25, Line 18: Control ID value for RDP A-Control and corresponding content for control information is missing	Please add a Control ID for RDP A-Control		2017/1/9 9:42
5026	Chittabrata Ghosh	225	1 9.6.29.2	105	50	E	N	105.50 9.6.29.2	Typo in the word "Table"	Please replace the word "TTable 9-421ad ..." with "Table 9-421ad ..."		2017/1/9 9:42

5027	Chittabrata Ghosh	225	1 17.3.9.10	145	61	E	N	145.61 17.3.9.10	Replace "an non-HT ..." with "a non-HT ..."	As in comment	2017/1/9 9:42
5028	Chittabrata Ghosh	225	1 11.1.3.8	141	23	E	N	141.23 11.1.3.8	Replace "shall decodes the Beacon frame ..." to "shall decode the Beacon frame ..."	As in comment	2017/1/9 9:42
5029	Chittabrata Ghosh	225	1 9.4.2.219	93	49	E	N	93.49 9.4.2.219	replace the word "Nontransmitted BSSID or a transmitted BSSID ..." to "nontransmitted BSSID or a transmitted BSSID ..."	As in comment by replacing the word "Nontransmitted" to "nontransmitted"	2017/1/9 9:42
5030	Chittabrata Ghosh	225	1 28.1.1	64	27	E	N	64.27 28.1.1	Replace "an" with "a" as follows: "... when the STA is an 20MHz only non-AP STA" with "... when the STA is a 20MHz only non-AP STA."	As in comment	2017/1/9 9:42
5031	Chittabrata Ghosh	225	1 28.1.1	64	31	E	N	64.31 28.1.1	Replace "an" with "a" as follows: "... when the STA is an 20MHz only non-AP STA" with "... when the STA is a 20MHz only non-AP STA"	As in comment	2017/1/9 9:42
5032	Chittabrata Ghosh	225	1 27.2.3	6	18	T	N	6.18 27.2.3	It is specified that a STA that receives a Basic Trigger frame with its AID in Per User Info field shall update MU EDCA parameters. However, there is no STA behavior mentioned with respect to MU EDCA parameter update when a STA accesses a random access RU with AID 0 assigned in Basic Trigger frame;	Suggest to provide STA behavior when a STA accesses an RU assigned for random access indicated by AID 0 in Basic Trigger frame;	2017/1/9 9:42
5033	Chittabrata Ghosh	225	1 27.7.2	34	37	T	N	34.37 27.7.2	Individual TWT agreements discuss about UL MU operation either in Trigger-enabled TWT SP or in unannounced TWT SP; however, STA should be allowed to transmit SU PPDU within a TWT SP; explicit channel access behavior should be described to allow SU PPDU;	Suggest to mention about channel access for SU PPDU transmission within TWT SP using individual TWT agreements	2017/1/9 9:42
5034	Chittabrata Ghosh	225	1 9.4.2.200	69	51	T	N	69.51 9.4.2.200	It is mentioned that there are one or multiple TWT Parameter sets within a TWT element when Broadcast field is 1; for efficient parsing, it is beneficial to add an indication of the number of the TWT Parameter sets included within the TWT element	Please include signaling of the number of TWT Parameter sets in a TWT element	2017/1/9 9:42
5035	Chittabrata Ghosh	225	1 27.5.2.3	22	19	T	N	22.19 27.5.2.3	"If the STA is not associated with the AP, TBD"	Suggest to define an AID assigned by an AP for a STA that is not associated with the AP; one option is that the AP defines an AID for generic unassociated STA and then define a specific value for a specific unassociated STA; the other option is that the AP assigns an AID for a specific unassociated STA;	2017/1/9 9:42
5036	Chittabrata Ghosh	225	1 27.5.2.6.2	28	15	T	N	28.15 27.5.2.6.2	It is mentioned that the acknowledgement procedure for random access is as defined in 10.3.2.10.3; however, for an unassociated STA, due to its absence of an AID, may not be acknowledged as similar to an associated STA;	Suggest to define an MU acknowledgement procedure for unassociated STAs using UL OFDMA-based random access, following a definition of an AID for the TBD in Subclause 27.5.2.3.	2017/1/9 9:42
5037	Chittabrata Ghosh	225	1 27.4.4.5	16	34	T	N	16.34 27.4.4.5	There is a TBD in the sentence; define TBD	As in comment	2017/1/9 9:42
5038	Christopher Hansen	225	1 3.2	6	56	E	N	6.56 3.2	RU is not defined	Add a definition to Section 3.4	2017/1/9 9:42
5039	Christopher Hansen	225	1 4.3.14a	9	21	T	Y	9.21 4.3.14a	The text "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" seems to imply that 40 MHz and wider bandwidths are not allowed.	I assume that 20 MHz is mandatory but wider bandwiths are optional. Suggest using this language (or similar) instead.	2017/1/9 9:42
5040	Christopher Hansen	225	1 28.3.2.1	227	53	T	Y	227.53 28.3.2.1	The text "The DL MU transmission allows an AP to simultaneously transmit frames to more than one non-AP STAs." restricts transmission from one AP to another. This is un-necessary.	Remove "non-AP"	2017/1/9 9:42

5041	Christopher Hansen	225	1 28.3.11.5.1	318	27	T	Y	318.27 28.3.11.5.1		It is almost 2017 and we are defining a PHY with a binary convolutional code from the 1950s. This is backwards. Let's move on and use LDPC codes exclusively.	Remove this entire sub-clause.		2017/1/9 9:42
5042	Christopher Hansen	225	1 28.3.11.5.2	318	27	T	Y	318.27 28.3.11.5.2		The LDPC codes and encoding method (shortening and puncturing) developed in 802.11n are poor performing and obsolete. Remove this reference and allow new codes to be used for 802.11ax.	We need to form an 802.11ax subcomittee for LDPC codes and take new submissions.		2017/1/9 9:42
5043	Chunyu Hu	225	1 27.9	190	1	T	Y	190.01 27.9	8094	The MAC operation of the SRP mechanism is not described.	Provide a description of the MAC protocol for the SRP spatial reuse parameter. Expect a submission detailing a set of proposed changes.		2017/1/9 9:42
5044	Chunyu Hu	225	1 10.3.2.8a.2	117	5	T	Y	117.05 10.3.2.8a.2	8095	There might be more than one recipient of an MU-RTS.	Change "sent by the receipient of the MU-RTS frame" to "sent by any recipient of the MU-RTS frame"		2017/1/9 9:42
5045	Chunyu Hu	225	1 10.3.2.8a.2	117	10	T	Y	117.10 10.3.2.8a.2	8096	Why is the MU-RTS not allowed to be sent in an HE PPDU? There is no sense to having such a restriction.	Remove the cited line which disallows MU-RTS from being sent using an HE PPDU format.		2017/1/9 9:42
5046	Chunyu Hu	225	1 10.7.6	123	29	T	Y	123.29 10.7.6	8099	Due to power differences and other considerations, a situation can arise when the transmitter of a response frame using the standard required response MCS value is employing an MCS that will not work for the link because of the asymmetry, e.g. tx power asymmetry. Allow a STA to dictate the response PPDU MCS to avoid this problem.	Allow the transmitter of a response eliciting MPDU to include an indication of an appropriate MCS for the response MPDU. Expect a submission detailing some changes.		2017/1/9 9:42
5047	Chunyu Hu	225	1 9.3.1.9.7	38	35	T	Y	38.35 9.3.1.9.7		There is no explicit language anywhere stating what the allowed responses to single VHT are - I assume, without any explicit language, that both ACK and MBA are allowed	Clarify - even if the comment is correct, at least add a note pointing this out to avoid the possibility that an AP responds with ACK and a non-AP STA refuses it.		2017/1/9 9:42
5048	Chunyu Hu	225	1			T	Y			Size of the MBA response bitmap can be chosen by the MBA transmitter without constraint, so the STA that elicits the MBA cannot predict the duration of MBA - this is probably only a problem for SU PPDU eliciting frame because the MU PPDU includes a trigger for response which includes a duration value			2017/1/9 9:42
5049	Chunyu Hu	225	1 27.10.4	193	54	E	Y	193.54 27.10.4		A multi-TID A-MPDU may contain multiple noncontiguous nonzero length MPDU delimiters with EOF subfield equal to 1, one for each TID that solicits Ack and/or multiple noncontiguous nonzero length MPDU delimiters with EOF subfield equal to 0, one for each TID that solicits BlockAck.	Need to break setence after "one for each TID that solicit ACK" as the remaining statement is in parallel to "may contain multiple noncontiguous ...". Suggest to add ',' or ';'. Current way is confusing/misleading.		2017/1/9 9:42
5050	Chunyu Hu	225	1 10.13			T	Y	10.13		In IEEE 802.11-2016 publication, 10.13.3, page 1368, it's stated that QoS Null frame transmitted by DMG STA are not subject to this spacing, i.e., no MPDU delimiters with zero length need to be inserted after the MPDU immediately preceding the QoS Null frame in an A-MPDU. 11ax allows certain control and management frames to be aggregated with DATA frames. BAR/ACK/BA/MBA/Action/Trigger frame in A-MPDU doesn't need to comply the minimum MPDU spacing time following this QoS-Null example.	Shuold be ammended to 10.13		2017/1/9 9:42

5051 Chunyu Hu	225	1 9.2.4.6.4.2	50		T	Y	50.00 9.2.4.6.4.2	When AP uses a-control field (control ID = 0) to request UL OFDMA response, AP specifies only specifies MCS and RU allocation info. It's assumed that BCC will be used. However, as stated in 28.3.11.5, LDPC is the only encoding schemem for RU 484/996/2x996. This implies that the AP cannot solicit UL-OFDMA response using a-control/RSP field when the RU allocated to the non-AP exceeds RU484.	Should amend state clearly the limitation of using UL MU response scheduling; or amend to allow using MCS0-3/BCC for RU484/996/2x996 size to make this schedule flexible. Prefer the latter.	2017/1/9 9:42
5052 David Kloper	225	1 9.2.4.6.4.3	24	54	T	Y	24.54 9.2.4.6.4.3	Is this limiting SS that can be allocated to a User, or aggregate number of SS in an MU-MIMO transmission?	Please add clarification.	2017/1/9 9:42
5053 David Kloper	225	1 9.2.4.6.4.3	24	62	T	Y	24.62 9.2.4.6.4.3	This should only limit UL MU for sending of buffered data, and not prohibit UL MU allocation for immediate Block Acknowledments. Otherwise it would prohibit DL MU.	Please add clarification.	2017/1/9 9:42
5054 David Kloper	225	1 9.2.4.6.4.5	27	3	T	Y	27.03 9.2.4.6.4.5	This legacy definition does not have sufficient information to enable the correct UL MU allocation. The size should include MPDU headers, and AMPDU delimiters or it will often underestimate the allocation.	Please update definition to include all MAC layer overhead required to transfer the MSDU.	2017/1/9 9:42
5055 David Kloper	225	1 9.2.4.6.4.5	27	12	T	Y	27.12 9.2.4.6.4.5	Since this field is intended to allow UL MU allocation, it must only include MSDU that are available for sending in immediate response to a Trigger frame. Inclusion of buffered traffic that the MAC is not prepared to deliver would result in overallocation.	Please add clarification.	2017/1/9 9:42
5056 David Kloper	225	1 9.2.4.6.4.5	27	12	T	N	27.12 9.2.4.6.4.5	Since we can now carry MMPDU and MPDU in the same AMPDU, should these sizes include MMPDU as well as MSDU?	Please add clarification.	2017/1/9 9:42
5057 David Kloper	225	1 9.3.1.9.3	37	15	T	Y	37.15 9.3.1.9.3	The A-MSDU aggregation is often performed at a different layer than A-MPDU aggregation. As such we should allow fragmentation of A-MSDU. There are multiple references to prohibiting this, and we appear to allow reception of fragmented A-MSDU to be optional. See AMSDU Fragmentation support, p 78.	Update all references.	2017/1/9 9:42
5058 David Kloper	225	1 9.3.1.9.7	38	6	T	Y	38.06 9.3.1.9.7	What is the procedure to identify that all MPDU in an AMPDU were received successfully? An MPDU with a good/bad FCS is easy, but what about delimiters being bad causing an MPDU to be lost. A detailed proceedure is required in order to enable this.	A procedure should be defined that is not error prone.	2017/1/9 9:42
5059 David Kloper	225	1 9.3.1.23	47	34	T	Y	47.34 9.3.1.23	The range of values does not match range of dBm targets.	Adjust ranges to match	2017/1/9 9:42
5060 David Kloper	225	1 3.4	7	19	E	N	7.19 3.4	Add S-MPDU into the acronym list	Several refernces, but not listed in acronyms as in comment	2017/1/9 9:42
5061 Dengyu Qiao	225	1 10.43.1	138	7	T	Y	138.07 10.43.1	Please clarify the meaning of "Wake TBTT Negotiation subfield = don't care"		2017/1/9 9:42
5062 Dengyu Qiao	225	1 10.43.1	139	9	T	Y	139.09 10.43.1	Some rows are missing. For example, there is no description for the case that Initiating frame is Request TWT with Wake TBTT Negotiation subfield =1, and Response frame is Accept TWT with Wake TBTT Negotiation subfield =1 and Broadcast subfield =1	Even if it is not allowed, it still should be included	2017/1/9 9:42
5063 Dengyu Qiao	225	1 10.9	127	26	E	Y	127.26 10.9	10.31.4 does not exist in Draft1.0	10.31.4 should be revised as 27.13	2017/1/9 9:42
5064 Dengyu Qiao	225	1 10.43.1	139		T	Y	139.00 10.43.1	Broadcast TWT ID is introduced. For Broadcast TWT, TWT scheduled STA cannot provide any resource requirement in TWT element during negotiation of wake TBTT. How does TWT scheduling STA determine to accept or reject the TWT request from TWT scheduled STA.	please clarify	2017/1/9 9:42

5065 Dengyu Qiao	225	1 27.7.3.1	183	9	T	Y	183.09 27.7.3.1	In Figure 27-5, AP uses M-BA to acknowledge multiple PS-Poll frames. The current M-BA mechanism cannot support it.	please correct it	2017/1/9 9:42
5066 Dengyu Qiao	225	1 9.3.1.23	45	36	T	Y	45.36 9.3.1.23	In TWT SP, if AP want to use random access RU to collect buffer status information from TWT scheduled STAs, AP can send a Trigger frame to indicate an RU with AID12=0. But a STA that has no TWT capability also can use the RU to do OFDMA random access. This is inefficient way.	Define a mechanism to solve this issue.	2017/1/9 9:42
5067 Dengyu Qiao	225	1 9.3.1.9.7	37	64	T	Y	37.64 9.3.1.9.7	Regarding multi-TID A-MPDU, the current M-BA mechanism needs to include multiple Per STA Info subfields to acknowledge to one STA.	Define a mechanism to use only one Per STA Info subfield to acknowledge multi-TID MPDUs transmitted by a same STA	2017/1/9 9:42
5068 Dengyu Qiao	225	1 27.16.3.3	208	24	T	Y	208.24 27.16.3.3	How to set Duration field in MAC header? Is it same as Duration field of QTP setup IE?	please clarify	2017/1/9 9:42
5069 Dengyu Qiao	225	1 9.4.2.223	96	22	T	Y	96.22 9.4.2.223	QTP setup frame only contains Vendor Specific Service Identifier, in order to distinguish different types of STA2STA operation, such as NAN, DLS, and etc. In dense environment, if many DLS links try to contend for channel in QTP period, they may collide or interferece with each other.	as in comment	2017/1/9 9:42
5070 Der-Zheng Liu	225	1 28.3.18.1	350	25	G	Y	350.25 28.3.18.1	To add limitation of -53dBm/MHz at frequency offset greater than 9.75 MHz for 20MHz	The transmit spectrum shall not exceed the maximum of the interim transmit spectral mask and -53 dBm/MHz at any frequency offset greater than 9.75 MHz.	2017/1/9 9:42
5071 Der-Zheng Liu	225	1 28.3.18.1	351	36	G	Y	351.36 28.3.18.1	To add limitation of -59dBm/MHz at frequency offset greater than 39.5 MHz for 80MHz	The transmit spectrum shall not exceed the maximum of the interim transmit spectrum mask and -59 dBm/MHz at any frequency offset greater than 39.5 MHz.	2017/1/9 9:42
5072 Der-Zheng Liu	225	1 28.3.18.1	352	7	G	Y	352.07 28.3.18.1	To add limitation of -62dBm/MHz at frequency offset greater than 79.5 MHz for 160MHz	The transmit spectrum shall not exceed the maximum of the interim transmit spectrum mask and -62 dBm/MHz at any frequency offset greater than 79.5 MHz.	2017/1/9 9:42
5073 Der-Zheng Liu	225	1 28.3.18.1	352	8	G	Y	352.08 28.3.18.1	To change to be -62dBm/MHz for 160MHz	Figure 28-40 (Example transmit spectral mask for a 160 MHz mask PPDU) shows an example of the resulting overall spectral mask when the -40 dBr spectrum level is above -62 dBm/MHz.	2017/1/9 9:42
5074 Der-Zheng Liu	225	1 28.3.18.1	352	49	G	Y	352.49 28.3.18.1	To add limitation of -59dBm/MHz at frequency offset greater than 39.5 MHz for 80+80MHz	The transmit spectrum shall not exceed the maximum of the interim transmit spectrum mask and -59 dBm/MHz at any frequency offset greater than 39.5 MHz.	2017/1/9 9:42
5075 Der-Zheng Liu	225	1 10.3.2.8a	117	42	T	Y	117.42 10.3.2.8a	For the example of Figure 10-9a, if only one of STA1 and STA2 respones a valid CTS frame, AP should recognite as successful respone. But if STA1 is busy, AP would still sent DL MU PPDU, and STA1 would be not protected by this MU-RTS/CTS procedure.	The MU-RTS/CTS procedure allows an AP to protect an MU transmission. An HE AP may transmit an MU-RTS frame to solicit simultaneous CTS responses from one or more HE STAs. Need to find out a better solution for some hidden node issue caused by the simultaneous CTS responses.	2017/1/9 9:42

5076	Der-Zheng Liu	225	1 10.3.2.8a	117	42	T	Y	117.42 10.3.2.8a	For the example of Figure 10-9c, STA1 should sent a CTS frame response on primary 20MHz channel indicated by MU-RTS, if the primary 20MHz is idle. However, if there is a hidden node for AP and STA2, which interferes STA1 on secondary 20 MHz channel, STA1 still would sent the CTS frame response. Right? In this case, AP sent a DL MU PPDU to STA1 and STA2, STA1 may be collided by this hidden node for AP.	A CTS frame sent in response to an MU-RTS frame shall be transmitted on the 20 MHz channels indicated in the RU Allocation subfield of the User Info field of the MU-RTS frame when the indicated 20 MHz channels are all idle. If any 20 MHz channel indicated in the RU Allocation subfield of the User Info field is busy, the CTS frame response shall not be transmitted. 1. Need to find out a better solution for some hidden node issue caused by the CTS frame response on a smaller BW channel indicated by MU-RTS. 2. Why not to limit the CTS frame response with the same full bandwith?		2017/1/9 9:42
5077	Der-Zheng Liu	225	1 9.4.2.218.1	76	2	E	Y	76.02 9.4.2.218.1	To remove one of double dots.	The HE Capabilities element is defined in Figure 9-589cj (HE Capabilities element format).		2017/1/9 9:42
5078	Der-Zheng Liu	225	1 9.4.2.218.5	89	38	E	Y	89.38 9.4.2.218.5	To remove one of double dots.	Each PPET8 for NSSn for RUb subfield and PPET16 for NSSn for RUb subfield contains an integer that corresponds to a constellation index value related to the transmission constellation of an HE PPDU as defined in Table 9-262ac (Constellation index).		2017/1/9 9:42
5079	Der-Zheng Liu	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1	To remove one of double dots.	Figure 10-9a (Example of MU-RTS/CTS/DL MU PPDU/Acknowledgement Response and NAV setting) shows an example of the exchange of MU-RTS and simultaneous CTS responses to protect DL MU PPDU and acknowledgement responses.		2017/1/9 9:42
5080	Der-Zheng Liu	225	1 27.3.3.1	152	20	E	Y	152.20 27.3.3.1	To remove one of double dots.	An originator STA transmitting an MPDU or A-MPDU that contains one or more dynamic fragments shall solicit an immediate response from the recipient STA for each of the fragments contained in the MPDU or A-MPDU, except when the fragments are sent under level 3 dynamic fragmentation (see 27.3.3.4 (Level 3 dynamic fragmentation)).		2017/1/9 9:42
5081	Der-Zheng Liu	225	1 27.4.4.5	162	25	E	Y	162.25 27.4.4.5	To remove one of double dots.	The Ack Type field shall be set according to the acknowledgement context.		2017/1/9 9:42
5082	Der-Zheng Liu	225	1 27.5.2.2.1	164	45	E	Y	164.45 27.5.2.2.1	To remove one of double dots.	For recipient STAs that are associated with the AP, the User Info field is addressed to a recipient STA if the value of the AID12 subfield of the User Info field is equal to the AID of the STA or to 0 (indicating a random access allocation).		2017/1/9 9:42
5083	Der-Zheng Liu	225	1 27.5.2.3	170	16	E	Y	170.16 27.5.2.3	To remove one of double dots.	NOTE 2--The frame type of MPDUs may be different across A-MPDUs within a same HE trigger-based PPDU.		2017/1/9 9:42
5084	Der-Zheng Liu	225	1 27.7.3.2	185	16	E	Y	185.16 27.7.3.2	To remove one of double dots.	An unannounced TWT SP, without following the rules in 11.2.2.2.6 (AP operation during the CP)		2017/1/9 9:42
5085	Der-Zheng Liu	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2	To remove one of double dots.	The maximum number of RUs in the 20 MHz, 40 MHz, 80 MHz, 160 MHZ and 80+80 MHz HE PPDU formats are defined in Table 28-2 (Maximum number of RUs for each channel width).		2017/1/9 9:42
5086	Der-Zheng Liu	225	1 28.3.8	256	42	E	Y	256.42 28.3.8	To remove one of double dots.	Table 28-9 (Timing-related constants) defines the timing-related parameters for HE PPDU formats.		2017/1/9 9:42
5087	Der-Zheng Liu	225	1 28.3.10.8.5	296	43	E	Y	296.43 28.3.10.8.5	To replace double DOT by one COMMA	Set to n for MCSn, where n = 0, 1, 2, ..., 11		2017/1/9 9:42

5088	Dmitry Cherniavsky	225	1 27.9	190	1	T	Y	190.01 27.9	The section: "27.9 Spatial reuse operation" does not take antenna and beam-forming in consideration, which is an overlook in my opinion.	There should be a constraint put in place on antenna configuration and beam-forming for spatial reuse. In the most conservative case the same antenna configuration used for reception should be used for Tx. If beam-forming or non-omni antenna is used, the maximum power needs to be scaled down by antenna gain.	2017/1/9 9:42
5089	Dmitry Cherniavsky	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	Doppler mode is sufficiently defined	I can't propose a change, I can not figure out from the draft, what "Doppler mode" means.	2017/1/9 9:42
5090	Dmitry Cherniavsky	225	1 9.3.1.23	45	11	E	Y	45.11 9.3.1.23	Doppler refer to a last name of famous scientist and must be written with capital letter in the sentence: "The Doppler subfield indicates a high doppler mode of transmission." Also a mode can not be high. I think, the intention is to indicate a possible presence of high Doppler effect.	One possibility is: The Doppler subfield indicates a mode of transmission accounting for a high Doppler effect. As my another comment states, the Doppler mode is not sufficiently defined and here is the place where it could be elaborated.	2017/1/9 9:42
5091	Donald Eastlake 3rd	225	1 4.3.14a	9	18	T	Y	9.18 4.3.14a	Why talk about 40MHz, 80MHz, etc., if an HE non-AP STA can only support 20MHz as stated in line 21?	Make consistant.	2017/1/9 9:42
5092	Donald Eastlake 3rd	225	1 9.2.4.5.6	21	2	E	N	21.02 9.2.4.5.6	It says "non-AP HE STA" but on page 9 in lines 18 and 21 it says "HE non-AP STA".	Make consistent throughout document. I suggest the "HE non-AP STA" ordering.	2017/1/9 9:42
5093	Donald Eastlake 3rd	225	1 9.3.1.8.1	33	43	E	N	33.43 9.3.1.8.1	Editorial instruction not in bold italic.	Make gold italic.	2017/1/9 9:42
5094	Donald Eastlake 3rd	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	Incomplete Draft.	Fill in for "tbd".	2017/1/9 9:42
5095	Dong Guk Lim	225	1 28.3.6.4	250	38	G	Y	250.38 28.3.6.4	In legacy part, we don't use the concept of RU described in 28.3.11.8. So, for the clarification, the reference should be changed with 17.3.5.7	Change the reference 28.3.11.8 (BCC interleavers) to 17.3.5.7 (Data interleaving).	2017/1/9 9:42
5096	Dong Guk Lim	225	1 28.3.6.5	251	7	G	Y	251.07 28.3.6.5	In legacy part, we don't use the concept of RU described in 28.3.11.8. So, for the clarification, the reference should be changed with 17.3.5.7	Change the reference 28.3.11.8 (BCC interleavers) to 17.3.5.7 (Data interleaving).	2017/1/9 9:42
5097	Dong Guk Lim	225	1 28.3.6.8	253	7	T	Y	253.07 28.3.6.8	We have agreed that the phase rotation is not applied on HE-STF and beyond. Please rerfer the PHY Motion 82, November 2015. So, the phase rotation is not needed.	Change the sentence of clause b) with "Phase rotation: Apply 1 for all subcarrier irrespective bandwidth as described in 28.3.9 (Mathematical description of signals)."	2017/1/9 9:42
5098	Dong Guk Lim	225	1 28.3.6.9	253	32	T	Y	253.32 28.3.6.9	We have agreed that the phase rotation is not applied on HE-STF and beyond. Please rerfer the PHY Motion 82, November 2015. So, the phase rotation is not needed.	Change the sentence of clause b) with "Phase rotation: Apply 1 for all subcarrier irrespective bandwidth as described in 28.3.9 (Mathematical description of signals)."	2017/1/9 9:42
5099	Dong Guk Lim	225	1 28.3.6.9	253	16	T	Y	253.16 28.3.6.9	In time domain, the HE-STF symbol just consists of five-repeated time sequence as described in table 28-9. And, it does not inculde the GI in a symbol. So insertion of GI at STF symbol is wrong.	Change the sentence of cluase f) with "Apply windowing as described in 28.3.9 (Mathematical description of signals). "	2017/1/9 9:42
5100	Dong Guk Lim	225	1 28.3.6.9	253	36	T	Y	253.36 28.3.6.9	In an UL MU-MIMO transmission not using the single stream pilot, the LTF sequense is generated by masking with P matrix as defined in Equation (28-53). And in this case, A matrix mapping is not used additionally, since this sequence is directly used. So, this sentence should be revised for clarification.	Chage the sentence of clause c) with "Apply the PHE-LTF matrix to the data tones of the HE-LTF sequence and apply the RHE-LTF matrix to pilot tones except the ULMU-MIMO transmission not using single stream pilot as described in 28.3.10.10 (HE-LTF)."	2017/1/9 9:42
5101	Dong Guk Lim	225	1 28.3.6.10.1	254	24	T	Y	254.24 28.3.6.10.1	We have agreed that the phase rotation is not applied on HE-STF and beyond. Please rerfer the PHY Motion 82, November 2015. So, the phase rotation is not needed.	Chage the sentence of cluase b) with " Phase rotation: Apply 1 for all subcarrier irrespective bandwidth as described in 28.3.9 (Mathematical description of signals) ."	2017/1/9 9:42

5102 Dong Guk Lim	225	1 28.3.6.10.2	255	12	T	Y	255.12 28.3.6.10.2	We have agreed that the phase rotation is not applied on HE-STF and beyond. Please refer the PHY Motion 82, November 2015. So, the phase rotation is not needed.	Chage the sentence of cluase b) with " Phase rotation: Apply 1 for all subcarrier irrespective bandwidth as described in 28.3.9 (Mathematical description of signals) ."		2017/1/9 9:42
5103 Dong Guk Lim	225	1 28.3.6.11.4	255	55	T	Y	255.55 28.3.6.11.4	Accroding to PHY motion 82, phase rotaion is not applied at data field of HE-PPDU, so it is not needed.	chage the sentence of cluase b) with " Phase rotation: Apply 1 for all subcarrier irrespective bandwidth as described in 28.3.9 (Mathematical description of signals) ."		2017/1/9 9:42
5104 Dong Guk Lim	225	1 28.3.10.1	267	44	T	Y	267.44 28.3.10.1	As indicated in figure 28-18, L-STF and L-LTF are included in pre-HE modulated fields. Fort the clarification, add the L-STF, L-LTF and L-SIG in the sentence for various HE PPDU formats	Insert the L-STF, L-LTF and L-SIG to each sentence from line 44 to line 48.		2017/1/9 9:42
5105 Dong Guk Lim	225	1 28.3.10.5	270	45	T	Y	270.45 28.3.10.5	Definition of m is wrong, accroding to PHY motion 69, m =1 means SU PPDU format and triger based PPDU, m=2 means either MU PPDU or Exended range SU PPDU format. Thus, this sentence shoud be corrected.	Change the following sentence "m is 1 for an HE MU PPDU and HE extended range SU PPDU, and 2 otherwise " to "m is 1 for HE SU PPDU and HE trigger-based PPDU and 2 for an HE MU PPDU and HE extended range SU PPDU "		2017/1/9 9:42
5106 Dong Guk Lim	225	1 28.3.10.7.4	284	43	T	Y	284.43 28.3.10.7.4	Accroding to PHY motion 69, m =2 means HE MU PPDU and HE extended range SU PPDU so, it should be corrted.	Change m =1 to m =2.		2017/1/9 9:42
5107 Dong Guk Lim	225	1 28.3.10.10	301	37	T	Y	301.37 28.3.10.10	Table 28-12 (Frequently used parameters) does not provide any function related with NHE-LTF, so the function of number of HE-LTF symbol would need to be clarified by considering the total number of space time stream.	Provide the function of relation between number of LTF symbol and total number of space time stream like as table 21-13 in 802.11-2016.		2017/1/9 9:42
5108 Dong Guk Lim	225	1 28.3.10.10	301	43	T	Y	301.43 28.3.10.10	In an HE MU PPDU and HE trigger-based PPDU, NHE-LTF is indicated to STA by using the fields of HE-SIG-A and available number of LTF symbol is 1,2,4,6,8 described in 28.3.10.7.2. and this value can be determined by the Nsts,total. So, we need the obvious function like as table 21-13.	Chage the reference Table 28-12 (Frequently used parameters) with Table 21-13.		2017/1/9 9:42
5109 Dong Guk Lim	225	1 9.3.1.23	44	23	E	N	44.23 9.3.1.23	A wrong table is referred, so correct the table reference.	Change Table 22-13 with Table 21-13.		2017/1/9 9:42
5110 Dong Guk Lim	225	1 27.6.4	179	14	E	N	179.14 27.6.4	Reference is wrong. Correct it .	Change 26.1.4 (PPDU formats) with 28.3.4 HE PPDU formats		2017/1/9 9:42
5111 Dong Guk Lim	225	1 27.15.4.1	203	10	E	N	203.10 27.15.4.1	Reference is wrong. Correct it .	Change the reference 26.5 with 28.5		2017/1/9 9:42
5112 Dorothy Stanley	225	1 3	3	1	T	Y	3.01 3	Resource Unit and RU is a major new concept and terminology for 802.11. Need to and a definition in 3.2 and add RU to acronym list in 3.4. (For example, does RU apply to MU in general for both MU-MIMO and OFDMA, or just OFDMA?)	As in comment		2017/1/9 9:42
5113 Dorothy Stanley	225	1 3	3	1	T	Y	3.01 3	Define DL HE MU PPDU	As in comment		2017/1/9 9:42
5114 Dorothy Stanley	225	1 3	3	1	T	Y	3.01 3	Define UL HE MU PPDU	As in comment		2017/1/9 9:42
5115 Dorothy Stanley	225	1 3	3	1	T	Y	3.01 3	Define DL MU PPDU	As in comment		2017/1/9 9:42
5116 Dorothy Stanley	225	1 4.3.14a	9	18	T	Y	9.18 4.3.14a	Regarding, "An HE non-AP STA supporting 20 MHz, 40 MHz, 80 MHz, 160 MHz and 80+80 MHz is also a VHT non-AP STA", an HE non-AP STA supporting 20 MHz, 40 MHz and 80 MHz should also be an VHT non-AP STA	correct the statement		2017/1/9 9:42
5117 Dorothy Stanley	225	1 4.3.14a	9	21	T	Y	9.21 4.3.14a	Regarding, "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only", am I interpreting this correctly that an HE non-AP STA will only operate in 20 MHz? I'm guessing that tne intent is we want all HE non-AP STAs to support 20 MHz-only operation. If so, change the sentence to "An HE non-AP STA shall support 20 MHz-only operation"	As in comment		2017/1/9 9:42

5118 Dorothy Stanley	225	1 4.3.14a	9	27	T	Y	9.27 4.3.14a	Regarding, "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only", am I interpreting this correctly that an HE non-AP STA will only operate in 20 MHz? I'm guessing that tne intent is we want all HE non-AP STAs to support 20 MHz-only operation. If so, change the sentence to "An HE non-AP STA shall support 20 MHz-only operation"	As in comment		2017/1/9 9:42
5119 Dorothy Stanley	225	1 4.3.14a	9	29	T	Y	9.29 4.3.14a	UL MU-MIMO a main PHY feature, and needs to be added to this list.	As in comment		2017/1/9 9:42
5120 Dorothy Stanley	225	1 4.3.14a	9	49	T	Y	9.49 4.3.14a	There is entire MAC section called UL MU. This needs to be added to the list	As in comment		2017/1/9 9:42
5121 Dorothy Stanley	225	1 4.3.14a	9	49	T	Y	9.49 4.3.14a	There is entire MAC section called Spatial Reuse. This needs to be added to the list	As in comment		2017/1/9 9:42
5122 Dorothy Stanley	225	1 9.2.4.6.4.2	24	11	T	Y	24.11 9.2.4.6.4.2	Is DL TX Power conducted power or EIRP? Please clarify.	As in comment		2017/1/9 9:42
5123 Dorothy Stanley	225	1 9.2.4.6.4.2	24	27	T	Y	24.27 9.2.4.6.4.2	Why is UL MCS limited to MCS 0-3? In dense deployments, we will want higher MCS's. Please clarify.	As in comment		2017/1/9 9:42
5124 Dorothy Stanley	225	1 9.2.4.6.4.3	24	59	T	Y	24.59 9.2.4.6.4.3	What does a station that supports 160 MHz but not 80+80 MHz set Channel Width to? Please clarify.	As in comment		2017/1/9 9:42
5125 Dorothy Stanley	225	1 9.2.4.6.4.3	24	63	T	Y	24.63 9.2.4.6.4.3	UL MU is a critical feature in order to achieve the goal of high efficiency. Why are we allowing devices to disable UL MU operation? If this is for power save, then perhaps only allow devices to not support UL MU if their uplink duty cycle is very, very low.	As in comment		2017/1/9 9:42
5126 Dorothy Stanley	225	1 9.2.4.6.4.5	25	32	T	Y	25.32 9.2.4.6.4.5	While queue size is definitely important to the AP in order to schedule UL MU, there are other metrics that are important as well. For example, knowing that the client is experiencing excessive jitter and latency on the uplink or has low battery life will be useful.	Modify BSR accordingly		2017/1/9 9:42
5127 Dorothy Stanley	225	1 9.2.4.6.4.7	27	47	T	Y	27.47 9.2.4.6.4.7	Regarding "Bandwidth Query report operation to assist HE DL HE MU transmission", why is this report for DL only? When the AP schedules RUs to clients in uplink, wouldn't it be important to know uplink 20 MHz sub-channel availability around the client?	Modify BQR accordingly		2017/1/9 9:42
5128 Dorothy Stanley	225	1 9.3.1.9.1	34	10	T	Y	34.10 9.3.1.9.1	The start of reserved was changed from B5 to B6 in Figure 9-33. But there is no new label for B5.	Add label for B5		2017/1/9 9:42
5129 Dorothy Stanley	225	1 9.3.1.23	44	37	T	Y	44.37 9.3.1.23	Is AP Tx Power conducted or EIRP? Please clarify.	As in comment		2017/1/9 9:42
5130 Dorothy Stanley	225	1 9.3.1.23	44	13	T	Y	44.13 9.3.1.23	Its rediculous to have two LTF types for just the UL MU-MIMO PPDU. Save a bit in Trigger frame and PHY implementation complexity by just selecting single stream pilots which we used in 11ac and removing Mask LTF.	As in comment		2017/1/9 9:42
5131 Dorothy Stanley	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	I don't see anywhere a definition for "high doppler mode of transmission". Please define or delete this field throughout the spec.	As in comment		2017/1/9 9:42
5132 Dorothy Stanley	225	1 9.3.1.23.6	51	30	T	Y	51.30 9.3.1.23.6	Regarding, "9.3.1.23.6 GCR MU-BAR variant", while we're modifying GCR and multicast, we need to address the issue that multicast only uses legacy rates.	expand the rate set available for multicast		2017/1/9 9:42
5133 Dorothy Stanley	225	1 9.3.3.1	52	43	E	Y	52.43 9.3.3.1	change pre-sent to present	As in comment		2017/1/9 9:42
5134 Dorothy Stanley	225	1 9.4.2.218.2	77	54	T	Y	77.54 9.4.2.218.2	What is Maximum Number of Fragmented MSDU's set to if Fragmentation Support is 0? Please clarify.	As in comment		2017/1/9 9:42
5135 Dorothy Stanley	225	1 9.4.2.218.2	78	4	T	Y	78.04 9.4.2.218.2	What is Minimum Fragment Size set to if Fragmentation Support is 0? Please clarify.	As in comment		2017/1/9 9:42
5136 Dorothy Stanley	225	1 9.4.2.218.2	78	14	T	Y	78.14 9.4.2.218.2	What does an HE AP STA set this field to? Please clarify.	As in comment		2017/1/9 9:42

5137 Dorothy Stanley	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2	The information is blank in Table 9-262z for "Maximum AMPDU Length Exponent"	Add information	2017/1/9 9:42
5138 Dorothy Stanley	225	1 9.4.2.218.2	79	57	T	Y	79.57 9.4.2.218.2	What does an HE AP STA set this field to? Please clarify.	As in comment	2017/1/9 9:42
5139 Dorothy Stanley	225	1 9.4.2.218.3	82	26	T	Y	82.26 9.4.2.218.3	Regarding B5, if an AP establishes a 40 MHz BSS, and the non-AP STA sets B5 0, then the AP can never assign an RU to the non-AP STA? Or in other words, the non-AP STA will never participate in OFDMA? If this is the case, it is a bad idea and will greatly reduce efficiency. We should at least make the 20 MHz non-AP STAs participate in OFDMA in the primary channel.	As in comment	2017/1/9 9:42
5140 Dorothy Stanley	225	1 9.4.2.218.3	82	30	T	Y	82.30 9.4.2.218.3	Regarding B6, if an AP establishes a 40 MHz or 80 MHz BSS, and the non-AP STA sets B6 0, then the AP can never assign an RU to the non-AP STA? Or in other words, the non-AP STA will never participate in OFDMA? If this is the case, it is a bad idea and will greatly reduce efficiency. We should at least make the 20 MHz non-AP STAs participate in OFDMA in the primary channel.	As in comment	2017/1/9 9:42
5141 Dorothy Stanley	225	1 9.4.2.218.3	83	46	T	Y	83.46 9.4.2.218.3	I couldn't find "Doppler procedure" defined anywhere. Either define the procedure or delete the field.	As in comment	2017/1/9 9:42
5142 Dorothy Stanley	225	1 9.4.2.218.3	83	46	T	Y	83.46 9.4.2.218.3	Regarding the field "UL MU", this field is much more specific as to whether the STA supports UL MU-MIMO	Change name of the field to "UL MU-MIMO"	2017/1/9 9:42
5143 Dorothy Stanley	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3	Regarding the field UL HE MU PPDU Payload Support", please clarify. It is reserved for non-AP STA, so does that mean that non-AP STAs are disallowed to support or mandatory to support? Does this really indicate behavior for all STA type, or is it really for just for HE AP? I can't find the use of the field anywhere in the draft. Why is the capability element needed? In fact, there doesn't even appear to be a definition for UL HE MU PPDU, so add one.	as in comment	2017/1/9 9:42
5144 Dorothy Stanley	225	1 9.4.2.218.3	84	30	T	Y	84.30 9.4.2.218.3	Regarding "SU Beamformer", what does "Set to 1 if sent by an HE AP with support for 4 or more spatial streams." mean? Does is mean that a AP STA always sets it to 1 if it supports 4+ SS and that being an SU beamformer is then mandatory? Please clarify.	as in comment	2017/1/9 9:42
5145 Dorothy Stanley	225	1 9.4.2.218.3	84	36	T	Y	84.36 9.4.2.218.3	Regarding "SU Beamformee", what does "Set to 1 if sent by a non-AP STA." mean? Does is mean that a non-AP STA always sets it to 1 and that being an SU beamformee is mandatory? Please clarify.	as in comment	2017/1/9 9:42
5146 Dorothy Stanley	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	Regarding "MU Beamformer", what does "Set to 1 if sent by an AP." mean? Does is mean that an AP always sets it to 1 and that being an MU beamformee is mandatory? Please clarify. what does "Set to 0 if sent by a non-AP STA." mean? Does is mean that a non-AP STA always sets it to 0 and that being an MU beamformer is prohibited? Please clarify. if the above is true, then why do we need this capability bit? AP is mandatory, non-AP is disallowed - don't need a capability bit for this, just a shall statement somewhere.	as in comment	2017/1/9 9:42

5147 Dorothy Stanley	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	I don't see MU Beamforee capability bit. Does that mean its mandatory for AP and non-AP? Please clarify.	as in comment	2017/1/9 9:42
5148 Dorothy Stanley	225	1 9.4.2.218.3	84	49	T	Y	84.49 9.4.2.218.3	Regarding "Beamformee STS", what are the settings for MU beamformee? Please clarify.	as in comment	2017/1/9 9:42
5149 Dorothy Stanley	225	1 9.4.2.218.3	84	49	T	Y	84.49 9.4.2.218.3	Regarding "NSTS Total...", Please clarify whether this is for DL MU-MIMO Beamformee or SU Beamformee or both.	as in comment	2017/1/9 9:42
5150 Dorothy Stanley	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3	Regarding "Beamformee STS...", what are the settings for MU beamformee? Please clarify.	as in comment	2017/1/9 9:42
5151 Dorothy Stanley	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	Regarding "NSTS Total...", Please clarify whether this is for DL MU-MIMO Beamformee or SU Beamformee or both.	as in comment	2017/1/9 9:42
5152 Dorothy Stanley	225	1 9.4.2.218.3	85	20	T	Y	85.20 9.4.2.218.3	Regarding "Number Of Sounding Dimensions...", what are the settings for MU beamformer? Please clarify.	as in comment	2017/1/9 9:42
5153 Dorothy Stanley	225	1 9.4.2.218.3	85	26	T	Y	85.26 9.4.2.218.3	Regarding "Number Of Sounding Dimensions...", what are the settings for MU beamformer? Please clarify.	as in comment	2017/1/9 9:42
5154 Dorothy Stanley	225	1 9.4.2.218.3	86	11	T	Y	86.11 9.4.2.218.3	Regaring, "DL MU-MIMO on Partial BW". Does this imply that reception by a non-AP STA of DL MU-MIMO on full BW is mandatory? Please clarity and indicate where the shall statement is for this.	as in comment	2017/1/9 9:42
5155 Dorothy Stanley	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3	Define SRP	as in comment	2017/1/9 9:42
5156 Dorothy Stanley	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3	I can't find the use of "SRP-based SR Support" field anywhere in the draft. Why is the capability element needed?	as in comment	2017/1/9 9:42
5157 Dorothy Stanley	225	1 9.4.2.218.3	86	30	T	Y	86.30 9.4.2.218.3	Regarding "A STA that declares support for HE trigger-based PPDUs", how does a STA declare support? i.e. what field is set?	as in comment	2017/1/9 9:42
5158 Dorothy Stanley	225	1 9.4.2.219	91	50	T	Y	91.50 9.4.2.219	What is PE? Please define.	As in comment	2017/1/9 9:42
5159 Dorothy Stanley	225	1 10.3.1	113	45	T	Y	113.45 10.3.1	"HE duration-based RTS" sounds like a name of a function/feature. But I don't see any definition for it.	Define the protocol for establishing "HE duration-based RTS". Perhaps turn 10.3.2.4a into something useful.	2017/1/9 9:42
5160 Dorothy Stanley	225	1 10.3.2.4	114	62	T	Y	114.62 10.3.2.4	Regarding, "A STA shall update the NAV...", this seems pretty broad. Would legacy STAs now be required to update NAV based on new HE information? Or are we counting on the fact that legacy STAs would not be able to decode this PHY format? Perhaps limit this to HE STA?	as in comment	2017/1/9 9:42
5161 Dorothy Stanley	225	1 10.3.2.4	115	38	T	Y	115.38 10.3.2.4	How is the "HE duration-based RTS threshold" used by the non-AP HE STAs?	Define the protocol and provide normative language for how the non-AP HE STAs behaves upon receipt of this threshold. Perhaps turn 10.3.2.4a into something useful.	2017/1/9 9:42
5162 Dorothy Stanley	225	1 10.3.2.4	115	38	T	Y	115.38 10.3.2.4	Clarify that "HE duration-based RTS threshold" is in the HE Operation Parameters field	as in comment	2017/1/9 9:42
5163 Dorothy Stanley	225	1 10.3.2.4a	115	46	T	Y	115.46 10.3.2.4a	Regarding "10.3.2.4a Duration-based RTS/CTS. In dense environments, managing RTS usage by an AP can help the overall interference situation since the AP may have better view of the network situation.", while this a good start in adding control by the AP over non-AP STAs other aspects of client management need to addressed. In an large, dense, managed ESS, the network has much better visibility into the best selection of AP and band that the client should initially associate with and then subsequently select during roaming. The network also needs to be able to control usage of probe request and probe response in an ESS in improve network efficiency.	Add tighter management by the network of client association and roaming	2017/1/9 9:42

5164 Dorothy Stanley	225	1 10.28	136	19	T	Y	136.19 10.28	Regarding, "10.28 Reverse direction protocol", this was added in 11n to address TCP ACK delivery, but was hardly (or not at all) implemented in any devices. Rather than continue to modify RDP, introduce TCP ACK Proxy. And while we're crossing layer boundaries, mechanisms to limit traffic at layer 2 due to higher layer discovery would also improve network efficiency.	define such protocols		2017/1/9 9:42
5165 Dorothy Stanley	225	1 11.1.3.10	141	36	T	Y	141.36 11.1.3.10	We had dual-beacon in 11n with STBC. Noone implemented it. Why are we introducing yet another dual-beacon? Delete this to reduce complexity in the spec.	as in comment		2017/1/9 9:42
5166 Dorothy Stanley	225	1 27.1	149	10	T	Y	149.10 27.1	is "are banned" normative?	change sentence to a "shall not"		2017/1/9 9:42
5167 Dorothy Stanley	225	1 27.2.1	149	19	T	Y	149.19 27.2.1	How does "received frame" equate to the HE receive procedure? To elaborate, in Figure 28-51 PHY receive state machine, BSS color filtering occurs after CRC OK check of HE-SIG-A. However, that doesn't mean the frame can be received. The most obvious example is mismatch in PHY modes (e.g. 2-SS PPDU trying to be received by 1-SS receiver) With respect to "or MAC address", then yes then entire frame needs to be properly received.	With respect to RXVECTOR parameters located in the HE-SIG-A, "received frame" should probably be changed to "valid CRC of HE-SIG-A or valid CRC of VHT-SIG-A".		2017/1/9 9:42
5168 Dorothy Stanley	225	1 27.2.1	149	25	T	Y	149.25 27.2.1	If the BSS_COLOR is zero in the PPDU, and the BSS color of the AP is zero, is the frame still classified as intra-BSS?	as in comment		2017/1/9 9:42
5169 Dorothy Stanley	225	1 27.2.2	151	32	T	Y	151.32 27.2.2	Regarding "A STA shall update the basic NAV with the duration information indicated by the RXVECTOR parameter TXOP_DURATION if and only if all the following conditions are met:" and "The STA does not receive a frame with the duration information indicated by a Duration field in the PSDU of the PPDU carrying the RXVECTOR parameter TXOP_DURATION", aren't these contradicatory statements? Please clarify intent.	as in comment		2017/1/9 9:42
5170 Dorothy Stanley	225	1 27.2.2	151	56	T	Y	151.56 27.2.2	The language "Maintaining two NAV is beneficial in dense deployment scenarios where a STA requires protection from frames transmitted by STAs within its BSS, i.e., intra-BSS, and avoid interference from frames transmitted by STAs in neighboring BSS, i.e., inter-BSS." doesn't seem to match the rules. Consider the situation where an HT STA and HE STA are both associated to the same AP in the same BSS. The HT STA transmits a 2-SS PPDU. The HE STA is only capable of receiving 1-SS PPDUs. My understanding is that this PPDU would be unclassified by the HE STA in terms of intra-BSS PPDU or inter-BSS PPDU since MAC addresses in the frame would not be decodable by the HE STA. So the basic NAV duration would be updated, not the intra-BSS NAV.	Define how STAs are "intra-BSS" protected in the presence of undecodable PPDUs. Or modify this paragraph to actually match the defined rules.		2017/1/9 9:42
5171 Dorothy Stanley	225	1 27.2.2	151	57	E	Y	151.57 27.2.2	"Maintaining two NAV is..."	change to "Maintaining two NAVs is..."		2017/1/9 9:42
5172 Dorothy Stanley	225	1 27.2.3	152	21	T	Y	152.21 27.2.3	what's an "OMI A-Control field"?	Change to "Operating Mode subfield in A-Control subfield" in all locations where "OMI A-Control field" is used, or define "OMI A-Control field"		2017/1/9 9:42

5173 Dorothy Stanley	225	1 27.4.1	157	23	E	Y	157.23 27.4.1	"recipient (see 10.24.7.1 (Introduction)." missing end parenthesis	change to "recipient (see 10.24.7.1 (Introduction))."	2017/1/9 9:42
5174 Dorothy Stanley	225	1 27.4.1	157	48	T	Y	157.48 27.4.1	"An HE STA that supports Multi-STA BlockAck shall examine each received Multi-STA sent by an STA with which it has a BA agreement." A few issues with this sentence: 1) what is meant by "shall examine each received Multi-STA"? Was the intent to examine Per STA Info subfields for each STA identified in the BA? 2) "an STA" should be "a STA" or "an HE STA"	as in comment	2017/1/9 9:42
5175 Dorothy Stanley	225	1 27.4.1	158	15	T	Y	158.15 27.4.1	I don't think a STA associates with a BSSID. Change "An HE non-AP STA that is associated with a nontransmitted BSSID" should be "An HE non-AP STA that is associated with BSS with a nontransmitted BSSID". Then fix the end of the sentence as well, change to "whose RA is set either to the (nontransmitted) BSSID of the BSS it is associated with"	as in comment	2017/1/9 9:42
5176 Dorothy Stanley	225	1 27.4.2	159	5	E	Y	159.05 27.4.2	change "an STA" to "a STA" or "an HE STA"	as in comment	2017/1/9 9:42
5177 Dorothy Stanley	225	1 27.4.4.2	160	54	E	Y	160.54 27.4.4.2	There is no clause 10.3.2.11.2	as in comment	2017/1/9 9:42
5178 Dorothy Stanley	225	1 27.4.4.2	160	60	T	Y	160.60 27.4.4.2	There is no definition for S-MPDU	provide definition	2017/1/9 9:42
5179 Dorothy Stanley	225	1 27.5.1.1	162	45	T	Y	162.45 27.5.1.1	Regarding "Downlink MU-MIMO On Partial Bandwidth Rx", Figure 9-589cl and Table 9-262aa have "DL MUMIMO On Partial Bandwidth"	make field naming consistent	2017/1/9 9:42
5180 Dorothy Stanley	225	1 27.5.1.1	162	45	T	Y	162.45 27.5.1.1	Regarding "An AP shall not transmit to a STA an HE MU PPDU with the HE-SIG-B allocating spatial streams to more than one recipient STA, unless the STA sets the Downlink MU-MIMO On Partial Bandwidth Rx subfield of the HE Capabilities element to 1.", what is the intent of not allowing DL MU-MIMO w/ HE MU PPDU if the STAs only support full bandwidth? Is the intent to use VHT PPDU? I would think in the future when all the devices are HE, we would not want a mix of VHT and HE PPDU's	Allow DL MU-MIMO with HE MU PPDU to HE STAs that do not support partial bandwidth.	2017/1/9 9:42
5181 Dorothy Stanley	225	1 27.5.1.1	162	56	T	Y	162.56 27.5.1.1	I can't find a definition for "DL OFDMA With MIMO PPDU". I can't find an HE Capabilities element with "DL OFDMA With MIMO Support" field.	Define the terms so the paragraph makes sense.	2017/1/9 9:42
5182 Dorothy Stanley	225	1 27.5.1.3	163	40	T	Y	163.40 27.5.1.3	Regarding "The STA that receives a BQRP variant Trigger frame shall follow the rules defined in 27.5.2.3 (STA behavior) to generate the HE trigger-based PPDU when the Trigger frame contains the STA's AID in any of the Per User Info fields; otherwise the STA shall follow the rules defined in 27.5.2.6 (UL OFDMA-based random access) to gain access to a random RU and generate the HE trigger-based PPDU when the Trigger frame contains one or more random RU(s)", isn't clear. What part of 27.5.2.3 would allow a STA to NOT generate the HE trigger-based PPDU? And in this case, does the "otherwise the STA shall" make UL OFDMA-based random access mandatory? Because my interpretation of 27.5.2.6 is that it is optional. Need to make sure that there is no confustion that UL OFDMA-based random access	as in comment	2017/1/9 9:42
5183 Dorothy Stanley	225	1 27.5.2.1	164	14	T	Y	164.14 27.5.2.1	Define "MU-MIMO RU"	as in comment	2017/1/9 9:42
5184 Dorothy Stanley	225	1 27.5.2.1	164	14	T	Y	164.14 27.5.2.1	Define "UL OFDMA PPDU"	as in comment	2017/1/9 9:42

5185 Dorothy Stanley	225	1 27.5.2.1	164	19	T	Y	164.19 27.5.2.1	Define "UL MU-MIMO HE trigger-based PPDU"	as in comment	2017/1/9 9:42
5186 Dorothy Stanley	225	1 27.5.2.1	164	24	T	Y	164.24 27.5.2.1	Define "UL OFDMA PPDU"	as in comment	2017/1/9 9:42
5187 Dorothy Stanley	225	1 27.5.2.2.1	164	52	T	Y	164.52 27.5.2.2.1	Define "S-MPDU"	as in comment	2017/1/9 9:42
5188 Dorothy Stanley	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	fix punctuation "allocation).. A value"	as in comment	2017/1/9 9:42
5189 Dorothy Stanley	225	1 27.5.2.2.2	166	17	T	Y	166.17 27.5.2.2.2	Regarding "CS Required subfield is set to 0", why is CS not required? And if the answer is because there is "UL MU Response Scheduling A-Control subfield" in the trigger, then why is CS not required with "UL MU Response Scheduling A-Control subfield"? It seems like an easy way to cheat on CS is for an AP to always include this field, especially since it duplicates the information already in the Trigger frame format. At least make the Trigger basic trigger frame CS requirements the same as the UL MU Response Scheduling A-Control requirements.	as in comment	2017/1/9 9:42
5190 Dorothy Stanley	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	"If the STA is not associated with the AP, TBD."	I'm not sure how we went to letter ballot with a TBD, but obviously this needs to be fixed.	2017/1/9 9:42
5191 Dorothy Stanley	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3	fix punctuation "HE trigger-based PPDU.."	as in comment	2017/1/9 9:42
5192 Dorothy Stanley	225	1 27.5.2.3	170	61	T	Y	170.61 27.5.2.3	"The AP shall set the CS Required subfield to 1 except when" seems to contradict pg 166, line 27 "CS Required subfield is set to 0". Please clarify	as in comment	2017/1/9 9:42
5193 Dorothy Stanley	225	1 27.6.2	176	64	T	Y	176.64 27.6.2	If we are going to substantially improve efficiency over 11ac, we need HE beamformee's to support sounding equal to 8.	Change "For an HE beamformee, the value of this capability field shall be greater than or equal to 4." to "For an HE beamformee, the value of this capability field shall be greater than or equal to 8."	2017/1/9 9:42
5194 Dorothy Stanley	225	1 27.6.2	177	45	T	Y	177.45 27.6.2	In figure 27-3 "CSI From HE STA". Have we added CSI feedback again? Or is this Compressed Beamforming Report? As this amendment will eventually be merged into 802.11 baseline, the CSI label in this figure may be confused with 11n CSI feedback. Perhaps change "CSI" to "Feedback"	as in comment	2017/1/9 9:42
5195 Dorothy Stanley	225	1 27.6.2	178	7	T	Y	178.07 27.6.2	In figure 27-4 "CSI From HE STA". Have we added CSI feedback again? Or is this Compressed Beamforming Report, MU-Exclusive or CQI-only report? As this amendment will eventually be merged into 802.11 baseline, the CSI label in this figure may be confused with 11n CSI feedback. Perhaps change "CSI" to "Feedback"	as in comment	2017/1/9 9:42
5196 Dorothy Stanley	225	1 27.8	188	39	T	Y	188.39 27.8	There is no "Rx Channel Width" subfield	The name of the field in Figure 9-15d is "Channel Width". Unify the naming.	2017/1/9 9:42
5197 Dorothy Stanley	225	1 27.8.1	188	24	T	Y	188.24 27.8.1	Is OMI "Operating mode indication" as defined here or "Operation mode indication" as defined in 3.4	unify the definitions	2017/1/9 9:42
5198 Dorothy Stanley	225	1 27.8.3	189	36	T	Y	189.36 27.8.3	There is nothing in 27.5.2 describing what happens when UL MU Disable subfield is 1. UL MU is a critical feature for enhancing efficiency. What is the rationale for allowing non-AP STAs to disable UL MU operation?	Describe the purpose of allowing non-AP STAs to disable UL MU operation	2017/1/9 9:42
5199 Dorothy Stanley	225	1 27.8.3	189	36	T	Y	189.36 27.8.3	It seems like there needs to be a requirement that the non-AP STA does not discontinue participating in UL MU until it gets an acknowledgement from the AP. For example, if the AP did not receive the TOM, then it may continue to include the non-AP STA in UL MU exchanges.	Mandate that the non-AP STA needs to wait to discontinue participating in UL MU until it gets an acknowledgement from AP. Essentially even though this is part of TOM, processing of the trigger by the non-AP STA is a receive function.	2017/1/9 9:42

5200 Dorothy Stanley	225	1 27.9.1	190	12	T	Y	190.12 27.9.1	There is no definition for "SR PPDU"	define SR PPDU		2017/1/9 9:42
5201 Dorothy Stanley	225	1 27.9.2.1	190	24	T	Y	190.24 27.9.2.1	The language here uses "Inter-BSS PPDU", but in 27.2.1 the language uses "Inter-BSS frame". Is there an implied difference? Or are we using different terminology for the same thing?	unify terminology		2017/1/9 9:42
5202 Dorothy Stanley	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	"SR Backoff procedure for SR delayed case." This supposed sentence doesn't make any sense, but perhaps it was meant to be a section heading? Need to fix this.	as in comment		2017/1/9 9:42
5203 Dorothy Stanley	225	1 27.9.2.2	191	7	T	Y	191.07 27.9.2.2	I do not see how "OBSS_PD_min" and "OBSS_PD_max" are set. I interpret this as that the non-AP STAs may set them to whatever they please. To properly manage the interference environment, the AP must have control over the OBSS_PD_min and max level the non-AP STAs use.	Define a protocol whereby the AP can dictate the OBSS_PD_min level that is used by the non-AP STAs. Included in this must be the ability to disable SR, by setting OBSS_PD_min and OBSS_PD_max both to -82dBm. And define that OBSS_PD_min and OBSS_PD_max are set by the non-AP STAs to the default values only in the absense of direction from the AP.		2017/1/9 9:42
5204 Dorothy Stanley	225	1 27.9.2.2	191	62	T	Y	191.62 27.9.2.2	what does "default" mean? Does that mean a user or vendor can change these values to something else? Define what is meant by "OBSS_PD_min_default" and "OBSS_PD_max_default". Or in otherwords, how are these variables and values used.	as in comment		2017/1/9 9:42
5205 Dorothy Stanley	225	1 27.9.2.2	191	62	T	Y	191.62 27.9.2.2	Can the STA set OBSS_PD_min or OBSS_PD_max to an arbitray value, e.g. -50dBm? Please clarify	Define that OBSS_PD_min and OBSS_PD_max are set by the non-AP STAs to the default values only in the absense of direction from the AP. Perhaps define that APs always set OBSS_PD_min and OBSS_PD_max to default value.		2017/1/9 9:42
5206 Dorothy Stanley	225	1 27.9.2.2	192	1	E	Y	192.01 27.9.2.2	"considering the antenna connector definition section 3.1"	grammar doesn't seem correct. Perhaps change to "refer to the antenna connector definition in Section 3.1"		2017/1/9 9:42
5207 Dorothy Stanley	225	1 27.9.2.2	192	11	T	Y	192.11 27.9.2.2	The unconstrained condition needs to be changed to "if OBSS_PD_Level <= OBSS_PD_min"	as in comment		2017/1/9 9:42
5208 Dorothy Stanley	225	1 27.9.2.2	192	18	T	Y	192.18 27.9.2.2	For proper management of an ESS to achieve our goal of high efficiency, the AP needs to be able to dictate the non-AP STA's transmit power level to lower levels than what may be calculated by TXPWR_max. This is especially important in dense environments. Furthermore, we need this capability even beyond the context of SR and UL MU, e.g. tx power levels when transmitting SU PPDU	define such a protocol.		2017/1/9 9:42
5209 Dorothy Stanley	225	1 27.9.2.2	192	20	T	Y	192.20 27.9.2.2	Define UL TB PPDU	as in comment		2017/1/9 9:42
5210 Dorothy Stanley	225	1 27.10.2	192	40	T	Y	192.40 27.10.2	Regarding, "HE STA that transmits an DL HE MU PPDU", can a non-AP STA transmit a DL HE MU PPDU?	as in comment		2017/1/9 9:42
5211 Dorothy Stanley	225	1 27.11.2	196	19	T	Y	196.19 27.11.2	Regarding, "A STA transmitting an HE PPDU in a direct path to a (T)DLS peer STA", we need additional control by the network over peer-to-peer operation. Specifically, channel selection in an dense ESS is critical in achieving high efficiency. The network must be able to dictate which channels may be used by clients in order to manage interference.	define such a protocol		2017/1/9 9:42

5212 Dorothy Stanley	225	1 27.11.3	196	20	T	Y	196.20 27.11.3	Always setting BEAM_CHANGE to 1 if NSS is > 2 makes no sense. If this is truly the case, you don't need this parameter as NSS provides the same information. And why is BEAM_CHANGE aways set to 1 for the first PPDU in a TXOP?	as in comment	2017/1/9 9:42
5213 Dorothy Stanley	225	1 27.11.4	196	54	T	Y	196.54 27.11.4	"may ignore the HE PPDU" - its not about ignoring the PPDU, its about following modified CCA rules	change sentence to "...and 63 may follow the spatial reuse rules as described in 27.9 (Spatial reuse operation).	2017/1/9 9:42
5214 Dorothy Stanley	225	1 27.11.4	196	63	T	Y	196.63 27.11.4	Regarding "BSS_COLOR equal to 0 shall not discard the HE PPDU", there is nothing restricting APs from setting the BSS Color to 0. In 9.4.2.219, the value 0 is defined as "indicates that there is no BSS color for this BSS". Is the intention of this requirement to really not discard any SU PPDUs from APs with BSS Color set to 0? Or is the intention more limited to the previous paragraph where a SU PDDU is sent to a non-member and we set BSS_COLOR to 0.	clarify	2017/1/9 9:42
5215 Dorothy Stanley	225	1 27.11.5	197	53	T	Y	197.53 27.11.5	Regarding "The RXVECTOR parameter FORMAT of the soliciting PPDU is not equal to HE_SU, HE_MU, or HE_EXT_SU", I'm not following the logic. Is it trying to say that don't set to all one's if the soliciting PPDU is equal to HE trigger-based PPDU? Please clarify.	as in comment	2017/1/9 9:42
5216 Dorothy Stanley	225	1 27.14.1	199	11	T	Y	199.11 27.14.1	If the APs set BSS Color to zero, then the determinition of intra-PPDU based on matching BSS Color is not going to be correct quite often. I believe we need some exceptions for the BSS Color equal 0 situation.	as in comment	2017/1/9 9:42
5217 Dorothy Stanley	225	1 27.15.2	201	28	T	Y	201.28 27.15.2	Can an HE non-AP STA transmit an HE MU PPDU? Please clarify.	as in comment	2017/1/9 9:42
5218 Dorothy Stanley	225	1 27.15.2	201	38	T	Y	201.38 27.15.2	"UL MU PPDU Support" isn't defined	define	2017/1/9 9:42
5219 Dorothy Stanley	225	1 27.15.2	201	38	T	Y	201.38 27.15.2	pg 9, line 31 states "Mandatory support for DL and UL OFDMA", which seems to conflict with the intent here that there is an HE Capability that allows the STA to not support UL MU	clarify	2017/1/9 9:42
5220 Dorothy Stanley	225	1 27.15.2	201	42	T	Y	201.42 27.15.2	I think this statement is categorically wrong "An HE STA shall send Control frames in non-HT PPDU format following the rules defined in 10.7.6" because there are a lot of conditions in 10.7.6 that do not require non-HT PPDU format.	Perhaps change the sentence to "An HE STA shall send Control frames following the rules defined in 10.7.6 (Rate selection for Control frames)) with the following exceptions:"	2017/1/9 9:42
5221 Dorothy Stanley	225	1 27.15.2	202	4	T	Y	202.04 27.15.2	I don't see a definition for ER SU PPDU	add definition	2017/1/9 9:42
5222 Dorothy Stanley	225	1 27.15.3	202	21	T	Y	202.21 27.15.3	I don't see a definition for ER SU PPDU	add definition	2017/1/9 9:42
5223 Dorothy Stanley	225	1 27.15.3	202	32	T	Y	202.32 27.15.3	I think this statement is way too restrictive. "The STA shall select a <HE-MCS, NSS> tuple from the basic HE-MCS and NSS set when protection is required (as defined in 10.26 (Protection mechanisms))", there is no need to always use basic HE-MCS and NSS sets when protection is required. 10.26 itself talks about using RTS/CTS as a protection mechanism, so with that the subsequent PPDU should not have use a basic HE-MCS.	modify statement	2017/1/9 9:42
5224 Dorothy Stanley	225	1 27.15.3	202	42	T	Y	202.42 27.15.3	Regarding, "called the CandidateMCSSet as described in 10.7.6.5.3". The description in 10.7.6.5.3 applies to HT and VHT, but does not include HE.	modify rules here or in 10.7.6.5.3 to address HE	2017/1/9 9:42
5225 Dorothy Stanley	225	1 27.15.3	202	51	T	Y	202.51 27.15.3	I don't see a definition for ER SU PPDU	add definition	2017/1/9 9:42
5226 Dorothy Stanley	225	1 27.15.3	202	57	T	Y	202.57 27.15.3	I don't see a definition for ER SU PPDU	add definition	2017/1/9 9:42

5227 Dorothy Stanley	225	1 27.15.4.3	203	52	T	Y	203.52 27.15.4.3	Regarding, "The following apply for a STA that transmits a HE PPDU with a number of spatial streams (NSS) less than or equal to 8", can a STA transmit more than 8 SS? If not, then the sentence can be deleted	as in comment	2017/1/9 9:42
5228 Dorothy Stanley	225	1 27.15.4.3	203	55	T	Y	203.55 27.15.4.3	It is unclear why or how support of HE-MCS is related to support of reception of HT MCSs. Please clarify	as in comment	2017/1/9 9:42
5229 Dorothy Stanley	225	1 27.16.1	204	56	T	Y	204.56 27.16.1	Regarding, "A STA for which dot11HEOptionImplemented is true shall set dot11VeryHighThroughputOptionImplemented or dot11HighThroughputOptionImplemented to true." is it possible for HE STA to support VHT, but not HT? Please clarify.	as in comment	2017/1/9 9:42
5230 Dorothy Stanley	225	1 27.16.3.1	207	7	T	Y	207.07 27.16.3.1	According to 9.4.2.225, "The Quiet Period Offset field is set to the offset of the start of the first quiet period from the Quiet Time Period Request frame that contains this element", so that means that all the other STAs in the BSS must receive the Quiet Time Period Request frame in order to know when the Quiet Time Period starts. I doubt this will work, as many HE STAs will not receive the Request Frame, e.g. hidden nodes, power save.	The simplest fix is to delete the protocol	2017/1/9 9:42
5231 Dorothy Stanley	225	1 27.16.3.2	207	58	E	Y	207.58 27.16.3.2	"the requested HE STA can transmit frame belongs"	fix the grammar	2017/1/9 9:42
5232 Dorothy Stanley	225	1 28.1.1	210	35	T	Y	210.35 28.1.1	change "HE_TRIG" to "HE trigger-based"	as in comment	2017/1/9 9:42
5233 Dorothy Stanley	225	1 28.1.1	211	57	T	Y	211.57 28.1.1	If we are going to substantially improve efficiency over 11ac, we need HE non-AP STAs to support DL MU-MIMO PPDUs with a total number of spatial streams equal to 8.	change total number of spatial streams requirement to 8	2017/1/9 9:42
5234 Dorothy Stanley	225	1 28.1.1	211	57	T	Y	211.57 28.1.1	Regarding, "The total number of spatial streams in the DL MU-MIMO transmission that the non-AP STA can receive shall be at least 4.", I'm assuming the intent here is that the non-AP STA should be able to handle a DL MU-MIMO transmission with four streams even if it has fewer than 4 antennas. If so, this statement isn't clear, as it could be misinterpreted as a required to receive 4 spatial streams.	Perhaps something like, "The non-AP STA shall be able to receive its intended spatial streams in a DL MU-MIMO PPDU with a total number of spatial streams of at least 4."	2017/1/9 9:42
5235 Dorothy Stanley	225	1 28.1.1	211	61	T	Y	211.61 28.1.1	If we are going to substantially improve efficiency over 11ac, we need HE non-AP STAs to support sounding with a total number of spatial streams equal to 8.	change sounding requirement to 8	2017/1/9 9:42
5236 Dorothy Stanley	225	1 28.1.1	212	4	T	Y	212.04 28.1.1	Why not support RU size of 242?	add 242 to the requirement for non-AP STA	2017/1/9 9:42
5237 Dorothy Stanley	225	1 28.1.1	212	15	T	Y	212.15 28.1.1	Why is it only optional for a 20 MHz-only STA to support RU sizes of 242 or less in a 40 MHz channel width? It shouldn't be an issue for such a device to at least support these RU sizes in the primary 20MHz subchannel. With this requirement we might not be able to include any 20 MHz-only STAs in an OFDMA transmission in a 40 MHz BSS	make this mandatory	2017/1/9 9:42
5238 Dorothy Stanley	225	1 28.1.1	212	18	T	Y	212.18 28.1.1	Make it mandatory to support 242	make this mandatory	2017/1/9 9:42
5239 Dorothy Stanley	225	1 28.1.1	212	21	T	Y	212.21 28.1.1	Make it mandatory to support 242	make this mandatory	2017/1/9 9:42
5240 Dorothy Stanley	225	1 28.1.1	212	25	T	Y	212.25 28.1.1	Regrding, "If the non-AP STA is 20 MHz-only capable then 160 MHz and 80+80 MHz channel width, 2× 996-, 996- and 484-tone RU sizes in 5 GHz band are not applicable" is incorrect. A 20 MHz-only STA shall be able to receive a 20 MHz PPDU in a 160/80+80 MHz BSS.	fix this statement	2017/1/9 9:42

5241 Dorothy Stanley	225	1 28.1.1	212	35	T	Y	212.35 28.1.1	If we are going to substantially improve efficiency over 11ac, we need HE non-AP STAs to support DL MU-MIMO PPDUs with a total number of spatial streams equal to 8.	change total number of spatial streams requirement to 8	2017/1/9 9:42
5242 Dorothy Stanley	225	1 28.1.1	212	40	T	Y	212.40 28.1.1	change "HE_TRIG" to "HE trigger-based"	as in comment	2017/1/9 9:42
5243 Dorothy Stanley	225	1 28.1.2	212	57	E	Y	212.57 28.1.2	PHYs.A non-AP STA	add space after period	2017/1/9 9:42
5244 Dorothy Stanley	225	1 28.2.2	216	13	T	Y	216.13 28.2.2	Why does N_TX have "N" for both TXVECTOR and RXVECTOR?	Change TXVECTOR to Y	2017/1/9 9:42
5245 Dorothy Stanley	225	1 28.2.2	216	48	T	Y	216.48 28.2.2	How can the Value be both COMPRESSED_SV and Not present?	as in comment	2017/1/9 9:42
5246 Dorothy Stanley	225	1 28.2.2	223	52	T	Y	223.52 28.2.2	Clarify whether 0 indicates that dopper should or should not considered	as in comment	2017/1/9 9:42
5247 Dorothy Stanley	225	1 28.2.2	224	52	T	Y	224.52 28.2.2	What are the values for HE_LTF_MODE?	as in comment	2017/1/9 9:42
5248 Dorothy Stanley	225	1 28.2.2	226	14	T	Y	226.14 28.2.2	In 27.11.3 "The TXVECTOR parameter BEAM_CHANGE of an HE SU PPDU, HE extended range SU PPDU shall be set to 1 if the number of spatial streams is greater than 2 or the PPDU is the first PPDU in a TXOP."	These two definitions seem in conflict and need to be unified.	2017/1/9 9:42
5249 Dorothy Stanley	225	1 28.3.3.2	229	10	T	Y	229.10 28.3.3.2	We don't really have a definition for "DFS channel"	Take a look at 11.9.8.5 "HT-greenfield transmissions in operating classes that include a behavior limit of DFS_50_100_Behavior" for a more precise way to write this requirement	2017/1/9 9:42
5250 Dorothy Stanley	225	1 28.3.3.5	237	55	T	Y	237.55 28.3.3.5	Just to be clear "recipients of 40/80/160/80+80 OFDMA" means DL OFDMA? If so change accordingly.	as in comment	2017/1/9 9:42
5251 Dorothy Stanley	225	1 28.3.3.5	237	57	T	Y	237.57 28.3.3.5	Make this mandatory to increase flexibility of the scheduler.	as in comment	2017/1/9 9:42
5252 Dorothy Stanley	225	1 28.3.3.10.3	240	12	T	Y	240.12 28.3.3.10.3	Since single stream pilots are mandatory for UL OFDMA, UL OFDMA with MU-MIMO, and UL MU-MIMO, it makes no sense to also carry the complexity burden and potential interop issues of also having masking LTF sequence.	remove mask LTF sequence	2017/1/9 9:42
5253 Dorothy Stanley	225	1 28.3.4	242	27	T	Y	242.27 28.3.4	HE-SIG-A-R is undefined	define	2017/1/9 9:42
5254 Dorothy Stanley	225	1 28.3.5	244	20	T	Y	244.20 28.3.5	Why is N_STS <= 2 in Figure 28-10?	as in comment	2017/1/9 9:42
5255 Dorothy Stanley	225	1 28.3.9	261	40	T	Y	261.40 28.3.9	Do we have definitions for non-OFDMA HE PPDU and OFDMA HE PPDU?	define	2017/1/9 9:42
5256 Dorothy Stanley	225	1 28.3.10.4	270	13	T	Y	270.13 28.3.10.4	Should T_GI,LegacyPreamble be changed to T_GI,L-LTF in Eq 28-10?	as in comment	2017/1/9 9:42
5257 Dorothy Stanley	225	1 28.3.10.5	271	49	T	Y	271.49 28.3.10.5	P_0 be change to p_0 to match Eq 28-12	as in comment	2017/1/9 9:42
5258 Dorothy Stanley	225	1 28.3.10.6	272	34	T	Y	272.34 28.3.10.6	need to define p_1	as in comment	2017/1/9 9:42
5259 Dorothy Stanley	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	What is the integer value or bit sequence for SR Disallowed?	as in comment	2017/1/9 9:42
5260 Dorothy Stanley	225	1 28.3.10.7.2	274	12	T	Y	274.12 28.3.10.7.2	What is the integer value or bit sequence for SR_Delay?	as in comment	2017/1/9 9:42
5261 Dorothy Stanley	225	1 28.3.10.7.2	276	46	T	Y	276.46 28.3.10.7.2	What is the integer value or bit sequence for SR_Restricted?	as in comment	2017/1/9 9:42
5262 Dorothy Stanley	225	1 28.3.10.7.2	278	30	T	Y	278.30 28.3.10.7.2	Regarding, "When the Bandwidth field is set to 5 or 7, the HE-SIG-B field may indicate which 20 MHz sub-channel(s) in the preamble of secondary 40 MHz channel are punctured by its RU allocation signaling; when the Bandwidth field is set to 6 or 7, the HE-SIG-B field may indicate which 20 MHz sub-channel(s) in the preamble of secondary 80 MHz channel are punctured by its RU allocation signaling." if the HE-SIG-B does not indicate which 20 MHz sub-channel is punctured then how is it determined? In other words, it seems like the "may" needs to be a shall.	as in comment	2017/1/9 9:42
5263 Dorothy Stanley	225	1 28.3.10.7.4	285	10	T	Y	285.10 28.3.10.7.4	Figure 28-19 is really low resolution and the names of the fields are incomplete.	fix the figure	2017/1/9 9:42

5264 Dorothy Stanley	225	1 28.3.10.8.1	286		T	Y	286.00 28.3.10.8.1	Regarding "Each User Block field is made up of two user fields", is it allowed to use the HE MU PPDU for a single user? If so, this statement is incorrect. Please clarify.	as in comment		2017/1/9 9:42
5265 Dorothy Stanley	225	1 28.3.10.8.2	286	44	T	Y	286.44 28.3.10.8.2	The "RU-242" labels in Figure 28-21 are confusing. The main issue is that the label implies one RU, where the content could contain signaling for many RU's. I would delete the "RU-242" block on the left side. I would probably also delete the parallelogram as well, as I don't know what it is trying to convey. In the common field, I would change "RU-242" to "-122:122". In the User Specific Field I would also change "RU-242" to "-122:122".	as in comment		2017/1/9 9:42
5266 Dorothy Stanley	225	1 28.3.10.8.2	287	8	T	Y	287.08 28.3.10.8.2	The "RU-242" labels in Figure 28-22 are confusing. The main issue is that the label implies one RU, where the content could contain signaling for many RU's. I would delete the "RU1-242" and "RU2-242" blocks on the left side. I would probably also delete the parallelograms as well, as I don't know what it is trying to convey. In the common field, I would change "RU1-242" to "-244:-3". In the User Specific Field I would also change "RU1-242" to "--244:-3". Make similar changes to channel 2	as in comment		2017/1/9 9:42
5267 Dorothy Stanley	225	1 28.3.10.8.2	287	51	T	Y	287.51 28.3.10.8.2	The "RU-242" labels in Figure 28-23 are confusing. The main issue is that the label implies one RU, where the content could contain signaling for many RU's. I would delete the "RUn-242" blocks on the left side. I would probably also delete the parallelograms as well, as I don't know what it is trying to convey. In the common field, I would change "RU1-242" to "-500:-259". In the User Specific Field I would also change "RU1-242" to "-500:-259". Make similar changes to channels 2,3, and 4.	as in comment		2017/1/9 9:42
5268 Dorothy Stanley	225	1 28.3.10.8.2	288	21	T	Y	288.21 28.3.10.8.2	Figure 28-24 looks half finished compared to the other figures, complete all the labeling as in the others.	as in comment		2017/1/9 9:42
5269 Dorothy Stanley	225	1 28.3.10.8.2	288	53	T	Y	288.53 28.3.10.8.2	Regarding "is the same as defined for the full bandwidth", does this mean that HE-SIG-B is not punctured? If not, this paragraph needs to be made clearer.	as in comment		2017/1/9 9:42
5270 Dorothy Stanley	225	1 28.3.10.8.3	289	35	T	Y	289.35 28.3.10.8.3	Do we need an equation for Beam_Change = 0?	as in comment		2017/1/9 9:42
5271 Dorothy Stanley	225	1 28.3.10.8.4	292	26	T	Y	292.26 28.3.10.8.4	Just to confirm, for entry "0110y_1y_0z_1z_0" in Table 28-21, the maximum number of MU-MIMO users per 106-tone RU is four? This is half of our claim of increasing MU-MIMO users to 8. Please clarify.	as in comment		2017/1/9 9:42
5272 Dorothy Stanley	225	1 28.3.10.8.4	293	33	T	Y	293.33 28.3.10.8.4	What does "default mode" mean? This implies other types of modes, but I don't see other types of modes described. Please clarify.	as in comment		2017/1/9 9:42
5273 Dorothy Stanley	225	1 28.3.10.8.5	293	60	T	Y	293.60 28.3.10.8.5	Regarding "Multiple RU allocations addressed to a single STA shall not be allowed in 802.11ax.", I don't think you can refer to the task group.	as in comment		2017/1/9 9:42

5274 Dorothy Stanley	225	1 28.3.10.10	313	5	T	Y	313.05 28.3.10.10	Regarding "When the 1x HE-LTF is used for non-OFDMA UL MU-MIMO, neither masking by orthogonal code nor single stream pilot are not used.", there are too many negatives in the sentence and I can't parce the meaning. Please clarify	as in comment	2017/1/9 9:42
5275 Dorothy Stanley	225	1 28.3.11.5.1	318	12	T	Y	318.12 28.3.11.5.1	Is this the same a_init from Eq 28-61? Please clarify.	as in comment	2017/1/9 9:42
5276 Dorothy Stanley	225	1 28.3.11.5.1	318	16	T	Y	318.16 28.3.11.5.1	Is this the same N_dbps,last,init from Eq 28-62? Please clarify.	as in comment	2017/1/9 9:42
5277 Dorothy Stanley	225	1 28.3.11.5.1	318	23	T	Y	318.23 28.3.11.5.1	Is this the same N_cbps,short from Eq 28-61? Please clarify.	as in comment	2017/1/9 9:42
5278 Dorothy Stanley	225	1 28.3.11.5.2	318	37	T	Y	318.37 28.3.11.5.2	Is this the same N_dbps,last,init from Eq 28-62? Please clarify.	as in comment	2017/1/9 9:42
5279 Dorothy Stanley	225	1 28.3.11.9	327	15	T	Y	327.15 28.3.11.9	Something is wrong with this sentence "in order to exploit frequency diversity for a and"	fix sentence	2017/1/9 9:42
5280 Dorothy Stanley	225	1 28.3.11.11	329	47	E	Y	329.47 28.3.11.11	looks like a broken link	fix link	2017/1/9 9:42
5281 Dorothy Stanley	225	1 28.3.14.2	341	1	T	Y	341.01 28.3.14.2	We need to specify in the subclause whether Tx Power is conducted or EIRP so there is no confusion.	as in comment	2017/1/9 9:42
5282 Dorothy Stanley	225	1 28.3.14.3	342	9	T	Y	342.09 28.3.14.3	"with P the maximum power the STA can transmit at the antenna connector", specify the units for P.	as in comment	2017/1/9 9:42
5283 Dorothy Stanley	225	1 28.3.16	344	41	T	Y	344.41 28.3.16	By Figure 28-36 if appears that only mandatory HE-LTF/GI combinations are allowed with HE NDP. If this is the case add this requirement to the list of properties.	as in comment	2017/1/9 9:42
5284 Dorothy Stanley	225	1 28.3.17.2	345	26	T	Y	345.26 28.3.17.2	Why is the minimum sensitivity for BPSK w/ DCM no better than without? If DCM doesn't improve sensitivity, then delete the feature.	as in comment	2017/1/9 9:42
5285 Dorothy Stanley	225	1 C	442	33	T	Y	442.33 C	I don't see a definition for "duration-based RTS threshold notification frame"	Add definition for "duration-based RTS threshold notification frame" or change to "HE duration-based RTS threshold in the HE Operation Parameters field"	2017/1/9 9:42
5286 Eunsung Park	225	1 28.3.3.1	228	17	E	N	228.17 28.3.3.1	The reference seems wrong in the following sentence. "The difference between OFDM and OFDMA is illustrated in Table 28-15 (CH_BANDWIDTH and for pre-HE modulated fields)."	Change the reference to Figure 28-1 (Illustration of OFDM and OFDMA concepts).	2017/1/9 9:42
5287 Eunsung Park	225	1 28.3.6.2	249	62	T	Y	249.62 28.3.6.2	If the TXVECTOR parameter BEAM_CHANGE is 0, the L-STF field needs the procedure for spatial mapping	Include the procedure for spatial mapping after applying CSD as follows. "Spatial mapping: If the TXVECTOR parameter BEAM_CHANGE is 0, apply the Q matrix as described in 28.3.10.3 (L-STF)."	2017/1/9 9:42
5288 Eunsung Park	225	1 28.3.6.2	249	62	T	Y	249.62 28.3.6.2	For the L-STF, GI insertion is not needed.	Remove the procedure to insert GI.	2017/1/9 9:42
5289 Eunsung Park	225	1 28.3.6.3	250	20	T	Y	250.20 28.3.6.3	If the TXVECTOR parameter BEAM_CHANGE is 0, the L-LTF field needs the procedure for spatial mapping	Include the procedure for spatial mapping after applying CSD as follows. "Spatial mapping: If the TXVECTOR parameter BEAM_CHANGE is 0, apply the Q matrix as described in 28.3.10.4 (L-LTF)."	2017/1/9 9:42
5290 Eunsung Park	225	1 28.3.6.4	250	52	T	Y	250.52 28.3.6.4	If the TXVECTOR parameter BEAM_CHANGE is 0, the L-SIG field needs the procedure for spatial mapping	Include the procedure for spatial mapping after applying CSD as follows. "Spatial mapping: If the TXVECTOR parameter BEAM_CHANGE is 0, apply the Q matrix as described in 28.3.10.5 (L-SIG)."	2017/1/9 9:42
5291 Eunsung Park	225	1 28.3.6.5	251	21	T	Y	251.21 28.3.6.5	If the TXVECTOR parameter BEAM_CHANGE is 0, the RL-SIG field needs the procedure for spatial mapping	Include the procedure for spatial mapping after applying CSD as follows. "Spatial mapping: If the TXVECTOR parameter BEAM_CHANGE is 0, apply the Q matrix as described in 28.3.10.6 (RL-SIG)."	2017/1/9 9:42
5292 Eunsung Park	225	1 28.3.6.6	251	54	T	Y	251.54 28.3.6.6	If the TXVECTOR parameter BEAM_CHANGE is 0, the HE-SIG-A field needs the procedure for spatial mapping	Include the procedure for spatial mapping after applying CSD as follows. "Spatial mapping: If the TXVECTOR parameter BEAM_CHANGE is 0, apply the Q matrix as described in 28.3.10.7.4 (Encoding and modulation)."	2017/1/9 9:42

5293	Eunsung Park	225	1 28.3.6.8	253	9	T	Y	253.09 28.3.6.8	For the HE-STF, the phase rotation value is always 1, and thus the clause 21.3.7.5 does not need to be referred.	Delete "and 21.3.7.5 (Definition of tone rotation)" in the relevant sentence.	2017/1/9 9:42
5294	Eunsung Park	225	1 28.3.6.8	253	16	T	Y	253.16 28.3.6.8	For the HE-STF, GI insertion is not needed..	Remove the procedure to insert GI.	2017/1/9 9:42
5295	Eunsung Park	225	1 28.3.6.9	253	25	T	Y	253.25 28.3.6.9	For the HE-LTF, there are two modes, i.e., single stream pilot and masking LTF sequence. However, the procedure for construction of HE-LTFseems to include only the single stream pilot mode.	Specify the procedure for the mode of masking LTF sequence.	2017/1/9 9:42
5296	Eunsung Park	225	1 28.3.6.9	253	33	T	Y	253.33 28.3.6.9	For the HE-LTF, the phase rotation value is always 1, and thus the clause 21.3.7.5 does not need to be referred.	Delete "and 21.3.7.5 (Definition of tone rotation)" in the relevant sentence.	2017/1/9 9:42
5297	Eunsung Park	225	1 28.3.6.10.1	254	24	T	Y	254.24 28.3.6.10.1	For the data field, the phase rotation value is always 1, and thus the clause 21.3.7.5 does not need to be referred.	Delete "and 21.3.7.5 (Definition of tone rotation)" in the relevant sentence.	2017/1/9 9:42
5298	Eunsung Park	225	1 28.3.6.10.2	255	13	T	Y	255.13 28.3.6.10.2	For the data field, the phase rotation value is always 1, and thus the clause 21.3.7.5 does not need to be referred.	Delete "and 21.3.7.5 (Definition of tone rotation)" in the relevant sentence.	2017/1/9 9:42
5299	Eunsung Park	225	1 28.3.6.11.4	255	55	T	Y	255.55 28.3.6.11.4	For the data field, the phase rotation value is always 1, and thus the clause 21.3.7.5 does not need to be referred.	Delete "and 21.3.7.5 (Definition of tone rotation)" in the relevant sentence.	2017/1/9 9:42
5300	Eunsung Park	225	1 28.3.7	256	33	T	Y	256.33 28.3.7	There are two types of MCSs, i.e., HE-MCS and HE-SIG-B-MCS. Thus, HE-SIG-B-MCSs which can be used for DCM also need to be defined.	Add "HE-SIG-B-MCSs" into the relevant sentence as follows. "It is only applied for the HE-MCSs and HE-SIG-B-MCS with indices 0, 1, 3 and 4."	2017/1/9 9:42
5301	Eunsung Park	225	1 28.3.10.7.2	275	33	T	Y	275.33 28.3.10.7.2	In Table 28-16, HE-SIG-A field of an HE SU PPDU and HE extended range SU PPDU contains Doppler field but Doppler mode has not been defined yet.	Doppler mode needs to be defined or if it will not be determined, Doppler field shoulld be just removed and reserved in the HE-SIG-A field of an HE SU PPDU and HE extended range SU PPDU.	2017/1/9 9:42
5302	Eunsung Park	225	1 28.3.10.7.2	276	33	E	N	276.33 28.3.10.7.2	There is a typo in the Table 28-17 for the description of the SIGB DCM field.	Correct the typo as follows. "HE-SIG-B"	2017/1/9 9:42
5303	Eunsung Park	225	1 28.3.10.7.2	277	35	T	Y	277.35 28.3.10.7.2	In Table 28-17, HE-SIG-A field of an HE MU PPDU contains Doppler field but Doppler mode has not been defined yet.	Doppler mode needs to be defined or if it will not be determined, Doppler field shoulld be just removed and reserved in the HE-SIG-A field of an HE MU PPDU.	2017/1/9 9:42
5304	Eunsung Park	225	1 28.3.11.15	337	5	T	Y	337.05 28.3.11.15	HE-MCS 2 and HE-SIG-B-MCS 2 are the QPSK modulation, but DCM can not be applied to these MCSs.	Delete "BPSK, QPSK and 16-QAM modulations" and specify the MCS indices as follows. "DCM is only applied to the HE-MCSs and HE-SIG-B-MCSs with indices 0, 1, 3 and 4.	2017/1/9 9:42
5305	EVGENY KHOROV	225	1 3.4	7	18	E	N	7.18 3.4	Abbreviation S-MPDU is not defined	Add abbreviation "S-MPDU Single MPDU" to Section 3.4 (Used on page 77)	2017/1/9 9:42
5306	EVGENY KHOROV	225	1 3.3	6	59	T	N	6.59 3.3	Define Broadcast RU	As in comment	2017/1/9 9:42
5307	EVGENY KHOROV	225	1 3.3.	6	59	T	N	6.59 3.3.	Define Class A and Class B	Class A STAs are high capability HE STAs and class B STAs are low capability HE STAs according to Clause 28.3.14.3	2017/1/9 9:42
5308	EVGENY KHOROV	225	1 3.3	6	59	T	N	6.59 3.3	Single MPDU (S-MPDU) is not defined	Add definition of Single MPDU (Used on page 77)	2017/1/9 9:42
5309	EVGENY KHOROV	225	1 3.4	7	4	E	N	7.04 3.4	Abbreviation CQI is not defined	Add abbreviation "CQI Channel Quality Indicator" to Section 3.4	2017/1/9 9:42
5310	EVGENY KHOROV	225	1 3.4	7	4	E	N	7.04 3.4	Abbreviation BSR is not defined	Add abbreviation "BSR Buffer Status Report" to Section 3.4	2017/1/9 9:42
5311	EVGENY KHOROV	225	1 3.4	7	4	E	N	7.04 3.4	MU-BAR is not defined	Add definition	2017/1/9 9:42
5312	EVGENY KHOROV	225	1 3.4	7	4	E	N	7.04 3.4	BSRP is not defined	Add definition	2017/1/9 9:42
5313	EVGENY KHOROV	225	1 9.2.4.6.4.1	22	48	E	N	22.48 9.2.4.6.4.1	The correct subfield name is Aggregated Control, not Aggregate Control	Replace "Aggregate" with "Aggregated"	2017/1/9 9:42
5314	EVGENY KHOROV	225	1 9.3.1.20	40	53	T	N	40.53 9.3.1.20	How to incode 26-tone RU with 7 bits of RU Start Index and Ru End Index is not defined	Add the rule similar to Table 9.25f. The first bit is 0 for the primary 80MHz channel and 1 for the secondary 80 MHz channel. The remaning 6 bits can have values from 000000 to 100100 which correspond to 37 possible 26-tone RUs	2017/1/9 9:42
5315	EVGENY KHOROV	225	1 9.3.1.23	41	47	E	N	41.47 9.3.1.23	Why (RA) is in round brackets is not clear	Remove round brackets	2017/1/9 9:42
5316	EVGENY KHOROV	225	1 9.3.1.23	41	59	E	N	41.59 9.3.1.23	No space after period (STA.If the Trigger)	Add space after the period	2017/1/9 9:42
5317	EVGENY KHOROV	225	1 9.3.1.23	41	61	E	N	41.61 9.3.1.23	No space after period (address.If the Trigger)	Add space after the period	2017/1/9 9:42
5318	EVGENY KHOROV	225	1 9.3.1.23	44	51	E	N	44.51 9.3.1.23	Values 0 to 61 maps to -20 dBm to 40 dBm	Change as "Values 0 to 60 map to -20 dBm to 40 dBm"	2017/1/9 9:42

5319	EVGENY KHOROV	225	1 9.3.1.23	45	1	T	N	45.01 9.3.1.23	The constrains on possible values of SR fields are not full.	Either give a reference to Table 28-18, or adapt the text from that table	2017/1/9 9:42
5320	EVGENY KHOROV	225	1 9.3.1.23	45	37	E	N	45.37 9.3.1.23	No space after period (access.User Info)	Add space after the period	2017/1/9 9:42
5321	EVGENY KHOROV	225	1 9.3.1.23	45	38	E	N	45.38 9.3.1.23	... with AID not equals to 0	Replace with "with AID not equal to 0"	2017/1/9 9:42
5322	EVGENY KHOROV	225	1 9.3.1.23	46	31	E	N	46.31 9.3.1.23	Grammar: B19-B13 are 0000000 indicates 26-tone RU1...	Replace with "Values of B19-B13 have the following meaning. 0000000 indicates 26-tone RU1.." The same should be done with similar sentences below till line 56	2017/1/9 9:42
5323	EVGENY KHOROV	225	1 9.3.1.23	46	59	E	N	46.59 9.3.1.23	Set to 0 for BCC	Replace with "The Coding Type Subfield is set to 0 for BCC"	2017/1/9 9:42
5324	EVGENY KHOROV	225	1 9.3.1.23	47	35	T	N	47.35 9.3.1.23	Values 0 to 90 map to -100 dBm to -20 dBm	Make the size of the range in dBm the same as the range of possible values.	2017/1/9 9:42
5325	EVGENY KHOROV	225	1 9.3.1.23.4	50	20	E	N	50.20 9.3.1.23.4	MU-RTS variant is described in a differnet way comparing with other Trigger variants. Specifically, a lot of information duplicates common Trigger frame description. Notes in fact are not notes and provide importantan information about frame format (compare with the other trigger variants).	Rewrite 9.3.1.23.4 to make the escription similar to Sections 9.3.1.23.2, 9.3.1.23.3, 9.3.1.23.5. Specifically, the following lines can be removed:28 to 34,57 to 62. Notes should be rewrite as plain text	2017/1/9 9:42
5326	EVGENY KHOROV	225	1 9.4.2.139	68	51	T	N	68.51 9.4.2.139	When data are transmitted between a non-HE STA and an HE STA, the ADDBA Capabilities may be incorrectly processed.	Make No fragmentation field equal 1 for an HE STA if its level of fragmentation = 0 and 0 otherwise	2017/1/9 9:42
5327	EVGENY KHOROV	225	1 9.4.2.200	75	49	E	N	75.49 9.4.2.200	for that (those) TWTs	Replace with "for that (those) TWT(s)"	2017/1/9 9:42
5328	EVGENY KHOROV	225	1 9.4.2.218.1	76	2	E	N	76.02 9.4.2.218.1	Double periods at the end of sentence	Remove a period	2017/1/9 9:42
5329	EVGENY KHOROV	225	1 9.4.2.218.2	77	50	E	N	77.50 9.4.2.218.2	AMPDU	Replace with A-MPDU	2017/1/9 9:42
5330	EVGENY KHOROV	225	1 9.4.2.218.2	80	26	E	N	80.26 9.4.2.218.2	Move the text describing Maximum A-MPDU Length Exponent to Table 9.262z	as in comment	2017/1/9 9:42
5331	EVGENY KHOROV	225	1 9.4.2.219	91	39	T	N	91.39 9.4.2.219	The two consequent sentences describe the same idea except for the "except" clause.	Join sentences describing the BSS Color field	2017/1/9 9:42
5332	EVGENY KHOROV	225	1 9.4.2.219	92	27	E	N	92.27 9.4.2.219	Grammar: If a HE non-AP STA	Replace "a" with "an"	2017/1/9 9:42
5333	EVGENY KHOROV	225	1 9.4.2.220	93	45	T	N	93.45 9.4.2.220	The maximal value of OCWmin and OCWmax is just 2^7-1=127, while there are some reserved bits in the field	Change size of the EOCWmin and EOCWmax fields to 4 bits.	2017/1/9 9:42
5334	EVGENY KHOROV	225	1 10.9	127	26	T	N	127.26 10.9	Section 10.31.4 (Link adaptation using the HE variant HT Control field) does not exist	Add Section 10.31.4 (Link adaptation using the HE variant HT Control field)	2017/1/9 9:42
5335	EVGENY KHOROV	225	1 9.2.4.6.4.4	25	5	T	N	25.05 9.2.4.6.4.4	Clause 9.2.4.6.4.4 does not exist	It seems that the correct clause is 10.31.4 (Link adaptation using the HE variant HT Control field). It does not exist too but there are references to this clause in the text.	2017/1/9 9:42
5336	EVGENY KHOROV	225	1 9.4.2.2.221	94	54	T	N	94.54 9.4.2.2.221	" except that a value 0 of the AIFSN field indicates that the AIFS is equal to the value of the MU EDCA Timer, i.e. EDCA is disabled for the duration specified by the MUEDCATimer for the corresponding AC". AIFS is equal to the value of the MU EDCA Timer is not the same as EDCA is disabled for the duration specified by the MUEDCATimer for the corresponding AC	Remove "AIFS is equal to the value of the MU EDCA Timer, i.e. "	2017/1/9 9:42
5337	EVGENY KHOROV	225	1 9.4.2.2.221	94	64	T	N	94.64 9.4.2.2.221	From text it is not clear whether the STA restarts the timer only if it receives a trigger frame which allocates some RU for this STA and the corresponding AC, or if it receives a trigger frame which allocates RU for ANY STA for this AC.	Replace the sentence with the following one: The MU EDCA Timer field indicates the duration of time, in units of 8 TUs, for which the provided MU EDCA parameters are used by an HE STA after reception of a Basic variant Trigger frame which allocates RU for this STA and the corresponding AC.	2017/1/9 9:42
5338	EVGENY KHOROV	225	1 9.4.2.2.221	94	64	T	N	94.64 9.4.2.2.221	What happens if the Trigger frame does not provide a preferred AC?	Add "If the Trigger frame does not contain information about preferred AC, all MU EDCA Timers shall be restarted."	2017/1/9 9:42
5339	EVGENY KHOROV	225	1 9.4.2.223	95	54	T	N	95.54 9.4.2.223	STA-2-STA operation is not defined	Replace with direct links	2017/1/9 9:42

5340	EVGENY KHOROV	225	1 9.4.2.224	96	54	T	N	96.54 9.4.2.224	The granularity of Quite Period Offset, Interval and Duration is too coarse (1TU or 1024 us) while the frame format allows to have values up to 65535 TUs, i.e. longer than 1 minute, which is hardly needed.	Express Quite Period Offset, Interval and Duration in 32 us, similarly to MCCA. Such unit provide a range for these values 32 us to 2s which is a good trade-off between granularity and scalability	2017/1/9 9:42
5341	EVGENY KHOROV	225	1 9.4.2.225	97	49	T	N	97.49 9.4.2.225	The values for Status Code are not defined	Define the values for Status Code	2017/1/9 9:42
5342	EVGENY KHOROV	225	1 9.6.29.2	104	51	E	N	104.51 9.6.29.2	Misprint: Ttable	Replace with Table	2017/1/9 9:42
5343	EVGENY KHOROV	225	1 9.6.29.2	104	49	E	N	104.49 9.6.29.2	The is missing before Quite Time Period Setup element	add "the"	2017/1/9 9:42
5344	EVGENY KHOROV	225	1 9.6.29.1	104	20	T	N	104.20 9.6.29.1	STA-to-STA operation is not defined	Replace with direct links	2017/1/9 9:42
5345	EVGENY KHOROV	225	1 9.6.28.2	103	32	T	N	103.32 9.6.28.2	Table 9.47 does not contain a value for HE Action Category	Add the row with code <ANA>, meaning "HE" and reference to Clause 9.6.28	2017/1/9 9:42
5346	EVGENY KHOROV	225	1 9.6.28.2	103	41	E	N	103.41 9.6.28.2	"the" is missing before Feadback Type subfield	add "the"	2017/1/9 9:42
5347	EVGENY KHOROV	225	1 9.6.28.2	103	41	E	N	103.41 9.6.28.2	"the" is missing before "HE MIMO Control field"	add "the"	2017/1/9 9:42
5348	EVGENY KHOROV	225	1 9.6.28.2	103	43	E	N	103.43 9.6.28.2	"the" is missing before "HE Compressed Beamforming and CQI frame"	add "the"	2017/1/9 9:42
5349	EVGENY KHOROV	225	1 9.6.28.3	104	1	T	N	104.01 9.6.28.3	Table 9.47 does not contain a value for HE Action Category	Add the row with code <ANA>, meaning "HE" and reference to Clause 9.6.28	2017/1/9 9:42
5350	EVGENY KHOROV	225	1 9.6.28.3	104	11	E	N	104.11 9.6.28.3	"the" is missing before "HE BSS Color Change Announcement frame"	add "the"	2017/1/9 9:42
5351	EVGENY KHOROV	225	1 9.6.28.3	104	1	T	N	104.01 9.6.28.3	Table 9.47 does not contain a value for Quite Time Period Action Category	Add the row with code <ANA>, meaning "Quite Time Period" and reference to Clause 9.6.29	2017/1/9 9:42
5352	EVGENY KHOROV	225	1 10.3.2.10.1	118	55	E	N	118.55 10.3.2.10.1	Space is missing before "that"	add space	2017/1/9 9:42
5353	EVGENY KHOROV	225	1 10.3.2.10.1	118	64	E	N	118.64 10.3.2.10.1	Space is missing before "for"	add space	2017/1/9 9:42
5354	EVGENY KHOROV	225	1 27.2.1	149	27	E	N	149.27 27.2.1	"the" is missing before "AP to which the STA is associated"	Add "the"	2017/1/9 9:42
5355	EVGENY KHOROV	225	1 27.2.1	149	53	E	N	149.53 27.2.1	"the" is missing before "AP to which the STA is associated"	Add "the"	2017/1/9 9:42
5356	EVGENY KHOROV	225	1 27.2.1	149	57	E	N	149.57 27.2.1	"the" is missing before "AP to which the STA is associated"	Add "the"	2017/1/9 9:42
5357	EVGENY KHOROV	225	1 27.2.1	149	62	E	N	149.62 27.2.1	"if" is not needed in the statement	Remove "if"	2017/1/9 9:42
5358	EVGENY KHOROV	225	1 27.2.2	150	25	T	N	150.25 27.2.2	The reason why AP may maintain 2 NAVs while the STAs shall maintain 2 NAVs (i.e. STAs must support more features than APs) is not clear.	Make an HE AP support 2 NAV timers	2017/1/9 9:42
5359	EVGENY KHOROV	225	1 27.2.2	151	37	E	N	151.37 27.2.2	Grammar: Note 1 is not correct	Replace the beginning of the Note 1 with "If the received PS-Poll is carried in an HE SU PPDU, ..."	2017/1/9 9:42
5360	EVGENY KHOROV	225	1 27.3.3.1	153	19	E	N	153.19 27.3.3.1	Double periods at the end of sentence	Remove a period	2017/1/9 9:42
5361	EVGENY KHOROV	225	1 27.3.3.1	153	47	T	N	153.47 27.3.3.1	S-MPDU is not defined	Define S-MPDU or replace it	2017/1/9 9:42
5362	EVGENY KHOROV	225	1 27.3.3.1	153	56	T	N	153.56 27.3.3.1	S-MPDU is not defined	Define S-MPDU or replace it	2017/1/9 9:42
5363	EVGENY KHOROV	225	1 27.5.1.3	163	35	E	N	163.35 27.5.1.3	A HE AP	Replace a with an	2017/1/9 9:42
5364	EVGENY KHOROV	225	1 27.5.2.2.1	165	3	T	N	165.03 27.5.2.2.1	From text it is not clear whether the User Info field with AID = 0 is addressed to a STA	Clarify whether the User Info field with AID = 0 is considered here to be addressed to a STA	2017/1/9 9:42
5365	EVGENY KHOROV	225	1 27.5.2.5	171	59	T	N	171.59 27.5.2.5	Using BSRP with RU allocated for random access may not be efficient if all the STAs which receive this BSRP reply	Add the following condition to the end of the sentence: if at least the buffers of the STAs are not empty	2017/1/9 9:42
5366	EVGENY KHOROV	225	1 27.5.2.6.2	173	46	E	N	173.46 27.5.2.6.2	Period and space are missing before "If"	Add a period and space before "If"	2017/1/9 9:42
5367	EVGENY KHOROV	225	1 27.6.2	177	45	T	N	177.45 27.6.2	CSI is not defined	Define CSI or correct Figure 27-3	2017/1/9 9:42
5368	EVGENY KHOROV	225	1 27.6.2	178	8	T	N	178.08 27.6.2	CSI is not defined	Define CSI or correct Figure 27-4	2017/1/9 9:42
5369	EVGENY KHOROV	225	1 27.9.2.1	190	50	E	N	190.50 27.9.2.1	It seems that the sentence is a heading	Make a Clause heading or remove the sentence	2017/1/9 9:42
5370	EVGENY KHOROV	225	1 27.5.2.3	167	59	T	N	167.59 27.5.2.3	If the STA is not associated with the AP, TBD	Define TBD	2017/1/9 9:42
5371	EVGENY KHOROV	225	1 27.5.2.5	171	41	E	N	171.41 27.5.2.5	Table 9-XX does not exist	Replace the reference with Table 9-18c	2017/1/9 9:42
5372	EVGENY KHOROV	225	1 28.3.17.3	345	64	E	N	345.64 28.3.17.3	Table xx-a does not exist	Replace the reference with Table 28-41	2017/1/9 9:42
5373	EVGENY KHOROV	225	1 10.2.1	1	1	G	N	1.01 10.2.1	Update Figure 10-1--Non-DMG STA MAC architecture with new 11ax features (OFDMA, HE PHY, etc)	As in comment	2017/1/9 9:42
5374	EVGENY KHOROV	225	1 10.22.2	129	13	T	N	129.13 10.22.2	It is not clear, what shall be done with LRC, SRC, CW[AC], etc, when a frame was transmitted several times with EDCA and then with UL OFDMA	Clarify	2017/1/9 9:42

5375	EVGENY KHOROV	225	1 27.9.2.2	191	12	E	N	191.12 27.9.2.2	Scaling of Figure 27-6 is not good	Reduce the size of the figure	2017/1/9 9:42
5376	EVGENY KHOROV	225	1 9.7.3	108	56	E	N	108.56 9.7.3	Multi-STA BA is not defined	Replace with "Multi-STA BlockAck"	2017/1/9 9:42
5377	EVGENY KHOROV	225	1 9.7.3	109	28	E	N	109.28 9.7.3	Multi-STA BA is not defined	Replace with "Multi-STA BlockAck"	2017/1/9 9:42
5378	EVGENY KHOROV	225	1 27.5.2.2.1	164	57	E	N	164.57 27.5.2.2.1	Multi-STA BA is not defined	Replace with "Multi-STA BlockAck"	2017/1/9 9:42
5379	EVGENY KHOROV	225	1 28.3.11.11	329	47	T	N	329.47 28.3.11.11	Error! Reference source not found. and Error! Reference source not found.	Correct the references	2017/1/9 9:42
5380	Geonjung Ko	225	1 9.3.1.23	47	48	T	Y	47.48 9.3.1.23	Equation 9-ax1 and 9-ax2 define the length of the Padding field in the Trigger frame and the length is the maximum length among the length for receiving STAs required to respond to the Trigger frame. Therefore when the Trigger frame includes User Info fields with the AID12 field set to 0, the random access of some STAs can be restricted by the Padding length.	The Padding length longer than the value defined by the equation should be allowed. When the Trigger frame includes User Info fields with the AID12 field set to 0, the length defined by the equation 9-ax1 and 9-ax2 can be the minimum length.	2017/1/9 9:42
5381	Geonjung Ko	225	1 28.3.20	369	5	T	Y	369.05 28.3.20	An AP does not need to issue a PHY-RXSTART.indication primitive in response to a HE trigger-based PPDU that does not overlap the primary channel, if the PPDU is not solicited by the AP.	An AP shall issue a PHY-RXSTART.indication primitive in response to a PPDU that does not overlap the primary channel, if the PPDU is the HE trigger-based PPDU the AP solicited. If the PPDU is the HE trigger-based PPDU that does not overlap the primary channel and the PPDU is not solicited by the AP, the AP shall not issue the primitive.	2017/1/9 9:42
5382	Geonjung Ko	225	1 28.3.20	369	5	E	Y	369.05 28.3.20	the HE-trigger based PPDU -> the HE trigger-based PPDU	As per comment	2017/1/9 9:42
5383	Geonjung Ko	225	1 28.3.20	369	8	T	Y	369.08 28.3.20	According to the baseline spec, the secondary channel means a 20 MHz channel. Therefore, it should be the secondary 20 MHz channel, secondary 40 MHz channel, or secondary 80 MHz channel.	As per comment	2017/1/9 9:42
5384	Geonjung Ko	225	1 27.2.2	150	57	T	Y	150.57 27.2.2	When an AP solicits an immediate response from a STA using the UL MU operation, the solicited STA may not respond to the Trigger frame after the CS mechanism. In this case, the STA shall set its NAV.	In case that the STA is solicited an immediate response by the frame but the STA cannot respond to the frame, the STA shall update its NAV.	2017/1/9 9:42
5385	Geonjung Ko	225	1 27.9	190	1	T	Y	190.01 27.9	Although the Spatial Reuse field is in the HE-SIG-A, the spec does not define the related operation.	The SRP-based Spatial Reuse operation should be defined.	2017/1/9 9:42
5386	Geonjung Ko	225	1 27.5.2.6.2	173	31	T	Y	173.31 27.5.2.6.2	We need a clarification on what "the HE AP" means. For a STA which associated with an AP, "the HE AP" would be the AP that the STA associated with. Also it should be clarified for a STA which has not associated with any APs. Without the clarification, the STA would initialize its OBO counter every time the STA receives a Beacon frame from neighboring APs.	A STA which associated with an AP initializes its OBO counter on the reception of the RAPS element from the associated AP. A STA which has not associated with any APs initializes its OBO counter on the reception of the RAPS element from the intended AP.	2017/1/9 9:42
5387	Geonjung Ko	225	1 27.11.4	196	44	T	Y	196.44 27.11.4	A BSS may change its BSS Color (Subclause 27.16.2 Selecting and advertising new BSS Color) during the operation.	The BSS shall maintain the single value of the BSS Color subfield of the HE Operation element for the lifetime of the BSS or until the BSS changes the BSS Color to the new value.	2017/1/9 9:42
5388	Geonjung Ko	225	1 27.11.4	196	49	T	Y	196.49 27.11.4	An HE STA may not receive the HE Operation element at the BSS Color change TBTT. In this case, the HE STA shall set the TXVECTOR parameter BSS_COLOR of an HE PPDU to the value indicated in the BSS Color Change Annoucement element, not in the HE Operation element.	As per comment	2017/1/9 9:42

5389	Geonjung Ko	225	1 28.2.2	226	22	T	Y	226.22 28.2.2	BSS_COLOR can be set to the value within the range 0 to 63, but sometimes the usage of value 0 is not the AP's choice. For example, if the intended recipient of a PPDU is not a member of a transmitting STA's BSS, then BSS_COLOR is set to 0 (Subclause 27.11.4 BSS_COLOR).	As per comment		2017/1/9 9:42
5390	Geonjung Ko	225	1 27.16.2	206	39	T	Y	206.39 27.16.2	We need a clarification on what is BSS Color change TBTT when the HE extended range SU PPDU format Beacon is used. When the Dual Beacon is used, two kinds of Beacon frames have different TBTTs.	Even if the STA receives any Beacon frame between Beacon frames of two PPDU formats, all STAs in the BSS shall start to use the BSS Color at the same time. e.g. at the TBTT of non-HE format Beacon frame.		2017/1/9 9:42
5391	Geonjung Ko	225	1 9.4.2.222	95	24	T	Y	95.24 9.4.2.222	When an AP uses the Dual Beacon, even if the STA receives any Beacon frame between Beacon frames of two PPDU formats, all STAs in the BSS shall start to use the BSS Color at the same time. e.g. at the TBTT of non-HE format Beacon frame. Need a clarification on a setting of the Color Switch Countdown field.	When an AP uses the Dual Beacon, a value of 0 indicates that the switch occurs at the current TBTT if the element is carried in a non-HE format Beacon frame or at the next TBTT of a non-HE format Beacon frame if the element is not carried in a nonHE format Beacon frame.			2017/1/9 9:42
5392	Geonjung Ko	225	1 27.5.2.6.2	173	31	T	Y	173.31 27.5.2.6.2	When an AP uses the Dual Beacon, a non-AP STA that receives RAPS elements from both Beacon frames of two PPDU formats would initialize its OBO counter twice. Then the STA may have less probability to access the random access RU than a STA that receives one Beacon frame.	When an AP uses the Dual Beacon, the STA should use the RAPS element from one format of Beacon frame.			2017/1/9 9:42
5393	Geonjung Ko	225	1 9.4.2.220	93	14	T	Y	93.14 9.4.2.220	When an AP uses the Dual Beacon, a non-AP STA that receives RAPS elements from both Beacon frames of two PPDU formats would initialize its OBO counter twice. Then the STA may have less probability to access the random access RU than a STA that receives one Beacon frame.	When an AP uses the Dual Beacon, the RAPS element should be included only in one format of Beacon frame between two formats of Beacon frames.			2017/1/9 9:42
5394	Geonjung Ko	225	1 27.2.1	150	15	T	Y	150.15 27.2.1	Partial BSS Color information can be included in the Partial AID field. Therefore, the decision made by using the MAC address should take precedence over the decision made by using the RXVECTOR parameter GROUP_ID and PARTIAL_AID.	As per comment			2017/1/9 9:42
5395	Geonjung Ko	225	1 27.5.2.6.2	173	37	T	Y	173.37 27.5.2.6.2	Although a STA receives a User Info field with the AID12 subfield set to 0, the STA may not have a capability to send a frame using the RU indicated by the User Info field. For example, a 20 MHz only HE STA cannot transmit a PPDU using a RU not within the primary 20 MHz channel.	If a STA is not able to transmit a frame using the RU indicated by the User Info field with the AID12 subfield set to 0, the STA should not decrement its OBO counter on the User Info field indicating the RU not capable to transmit a frame. Also when the OBO counter decrements to 0, the STA should not select the RU which is not capable.			2017/1/9 9:42
5396	Geonjung Ko	225	1 27.5.2.6.2	173	37	T	Y	173.37 27.5.2.6.2	Although a STA receives a User Info field with the AID12 subfield set to 0, the STA may not have a capability to send a frame as indicated in the User Info field. For example, the MCS subfield in the Common Info field may indicate the value which is not supported by the STA.	If a STA does not have a capability to transmit a frame as indicated by the User Info field with the AID12 subfield set to 0, the STA should not decrese its OBO counter on the User Info field and when the OBO counter is 0, the STA should not select the RU allocated by the User Info field.			2017/1/9 9:42
5397	Geonjung Ko	225	1 27.5.2.2.3	167	38	T	Y	167.38 27.5.2.2.3	It seems that the sentence of line 33 includes the sentence of line 38.	Please remove the sentence.			2017/1/9 9:42
5398	Geonjung Ko	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	Currently the Trigger farme includes the RA field.	The bracket is not required in the figure.			2017/1/9 9:42

5399	Geonjung Ko	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	The spec does not instruct that a STA receiving a Trigger frame soliciting the STA shall ignores the rest of User Info fields (after the User Info field with the AID12 subfield set to the STA's AID). In case that the STA is scheduled by the Trigger frame and its OBO counter decrements to zero, the scheduled STA should use the RU allocated by the User Info field with the AID12 subfield set to the STA's AID. Also the STA shall initialize its OBO counter to avoid the collision on the next random access opportunity. Allowing the scheduled STA to decrease its OBO counter can make the STA to transmit a frame using a random access RU quickly. The collision is avoided by the OBO counter of the random number and the random RU selection.	When a Trigger frame includes the User Info field with its AID12 subfield set to 12 LSBs of the AID of a STA, if the scheduled STA decrements its OBO counter to zero, the STA shall not use the RU allocated by the User Info field with the AID12 subfield set to 0 and the STA shall initialize its OBO counter.		2017/1/9 9:42
5400	Geonjung Ko	225	1 9.4.2.222	95	40	E	Y	95.40 9.4.2.222	Figure caption.	New BSS Color field format -> New BSS Color Information field format			2017/1/9 9:42
5401	Geonjung Ko	225	1 27.5.2.6.2	173	1	T	Y	173.01 27.5.2.6.2	There is always the Beacon frame from the transmitted BSSID, but Beacon frames from the nontransmitted BSSIDs may not exist. Moreover, a STA cannot determine whether a Trigger frame is soliciting STAs only associated with the BSS of the transmitted BSSID or at least two BSSs using the TA field. STAs associated with the BSS of the nontransmitted BSSID should have an opportunity to participate in the random access. Also all of STAs associated with BSSs of the transmitted BSSID and nontransmitted BSSIDs need to have fair opportunities.	STAs associated with BSSs of nontransmitted BSSIDs should use the RAPS element in a Beacon frame from the transmitted BSSID. Also it should be allowed that STAs associated with the BSS of the transmitted BSSID decrement OBO counters on the Trigger frame with the TA field set to the nontransmitted BSSID and STAs associated with BSSs of nontransmitted BSSIDs decrement OBO counters on the Trigger frame with the TA fiels set to the transmitted BSSID.		2017/1/9 9:42
5402	Geonjung Ko	225	1 27.10.4	193	58	T	Y	193.58 27.10.4	A multi-TID A-MPDU may contain A-MPDU subframes with the EOF subfield set to 1 and the MPDU Length subfield set to nonzero value. The STA that receives the A-MPDU acknowledges successful receptions of MPDUs in the above mentioned A-MPDU subframes with Per STA Info fields indicating an Ack. The TID value of a frame in an A-MPDU subframe with the EOF subfield set to 1 and the MPDU Length subfield set to nonzero value is unique among TID values of frames in the A-MPDU. Therefore, when every unsuccessful receptions of MPDUs are for a MPDU in an A-MPDU subframe with the EOF subfield set to 1 and the MPDU Length subfield set to nonzero, the Per STA Info field without Block Ack Starting Sequence Control and Block Ack Bitmap can acknowledge the successful reception of all MPDUs of a TID value without the ambiguity. This can reduce the length of	An HE STA that receives a multi-TID A-MPDU shall respond with a Multi-STA BlockAck frame that contains - One Per STA Info field indicating an Ack for each successfully received MPDU that solicits a response that is preceded by a nonzero length MPDU delimiter whose EOF is 1 (TID value equals that of the QoS Data/QoS Null frame or 15 for the Action frame), - One Per STA Info field indicating a BlockAck for each TID of a successfully received MPDU that solicits a response that is preceded by a nonzero length MPDU delimiter whose EOF is 0 (TID value equals that of the QoS Data frame), - One Per STA Info field with the Ack Type subfield set to 1 for each TID of a successfully received MPDU that solicits a response that is preceded by a nonzero length MPDU delimiter whose EOF is 0 (TID value equals that of the QoS Data frame) only when every unsuccessful receptions are for MPDUs of which the		2017/1/9 9:42

5403 Geonjung Ko	225	1 9.3.1.9.7	38	6	T	Y	38.06 9.3.1.9.7	According to the subclause 27.10.4 (A-MPDU with multiple TIDs), a multi-TID A-MPDU may contain A-MPDU subframes with the EOF subfield set to 1 and the MPDU Length subfield set to nonzero value. The STA that receives the A-MPDU acknowledges successful receptions of MPDUs in the above mentioned A-MPDU subframes with Per STA Info fields indicating an Ack. The TID value of a frame in an A-MPDU subframe with the EOF subfield set to 1 and the MPDU Length subfield set to nonzero value is unique among TID values of frames in the A-MPDU. Therefore, when every unsuccessful receptions of MPDUs are for a MPDU in an A-MPDU subframe with the EOF subfield set to 1 and the MPDU Length subfield set to nonzero, the Per STA Info field without Block Ack Starting Sequence Control and Block Ack Bitmap can acknowledge the successful reception of all	If the Ack Type subfield is 1 and the TID value of the Per AID TID Info subfield is less than 8 or equal to 15, then the Block Ack Starting Sequence Control and Block Ack Bitmap subfields are not present and the Per STA Info subfield acknowledges successful reception of a single MPDU "or all the MPDUs" indicated by the TID of the Per AID TID Info subfield.		2017/1/9 9:42
5404 Geonjung Ko	225	1 10.13.7	129	8	T	Y	129.08 10.13.7	A multi-TID A-MPDU may contain multiple A-MPDU subframes with the EOF subfield set to 1 and the MPDU Length subfield set to nonzero value. However, in the baseline spec, the EOF field can be set to 1 if the A-MPDU subframe's MPDU Length field is nonzero and the subframe is the only subframe that has a nonzero MPDU Length field. Therefore, the setting rule of the EOF field should be changed for an HE STA.	If an A-MPDU subframe's MPDU Length field is nonzero, the subframe is the only subframe that has a nonzero MPDU Length field and the TID value of the MPDU is not the same with TID values of other MPDUs in the A-MPDU, the EOF field may be set to 1.		2017/1/9 9:42
5405 Geonjung Ko	225	1 9.4.2.222	95	29	E	Y	95.29 9.4.2.222	No need of a dash in the word subfield	sub-field -> subfield		2017/1/9 9:42
5406 Geonjung Ko	225	1 9.3.1.9.1	34	30	E	Y	34.30 9.3.1.9.1	Grammar	An HE non-AP STA transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields and sets the RA field to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged. -> An HE non-AP STA that transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields sets the RA field to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged.		2017/1/9 9:42
5407 Geonjung Ko	225	1 9.3.1.9.7	38	1	E	Y	38.01 9.3.1.9.7	Text format	Please increase the text size of the first sentence.		2017/1/9 9:42
5408 Geonjung Ko	225	1 27.5.1.3	163	35	E	Y	163.35 27.5.1.3	Grammar	A HE AP -> An HE AP		2017/1/9 9:42
5409 Geonjung Ko	225	1 28.3.10.8.5	295	32	T	Y	295.32 28.3.10.8.5	Need a description on how the STA-ID field is used for the uplink case	As per comment		2017/1/9 9:42
5410 Geonjung Ko	225	1 27.3.2	152	53	T	Y	152.53 27.3.2	The dynamic fragmentation requires more capability than the static fragmentation for the originator. Therefore, the spec should define the related transmitter requirements as in Subclause 10.3.2.11 of the baseline spec.	As per comment		2017/1/9 9:42
5411 Geonjung Ko	225	1 27.5.2.6.2	173	45	T	Y	173.45 27.5.2.6.2	The spec needs to define the operation of a STA when the STA decrements its OBO counter to zero and has no data to transmit.	As per comment		2017/1/9 9:42
5412 Geonjung Ko	225	1 28.3.10.8	285	55	T	Y	285.55 28.3.10.8	An HE MU PPDU with the UL/DL field set to 1 is intended to one STA and the HE-SIG-B design is not efficient.	Please refine the HE-SIG-B design for the UL case to reduce the length of the HE-SIG-B field.		2017/1/9 9:42
5413 George Calcev	225	1 28.3.10.7.2	275	34	T	Y	275.34 28.3.10.7.2	"Doppler mode" is not defined	Define Doppler mode or remove all references		2017/1/9 9:42
5414 George Calcev	225	1 28.3.10.7.2	275	35	T	Y	275.35 28.3.10.7.2	"Doppler mode" is not defined	Define "Doppler mode" or remove it from the text		2017/1/9 9:42

5415 George Calcev	225	1 28.3.10.7.2	277	36	T	Y	277.36 28.3.10.7.2	"Doppler mode" not defined	Define or remove the "Doppler mode" from the text	2017/1/9 9:42
5416 George Calcev	225	1 28.3.10.7.2	277	37	T	Y	277.37 28.3.10.7.2	"Doppler mode" not defined	Define or remove "Doppler mode" from the text	2017/1/9 9:42
5417 George Calcev	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	"doppler mode" not defined	Define or remove "doppler mode" from the text	2017/1/9 9:42
5418 George Calcev	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3	"Doppler procedure" not defined	Define "Doppler procedure" or remove it from the text	2017/1/9 9:42
5419 George Calcev	225	1 9.4.2.218.3	83	43	T	Y	83.43 9.4.2.218.3	"Doppler procedure" not defined	Define "Doppler procedure" or remove it from text	2017/1/9 9:42
5420 Graham Smith	225	1 3.2	6	50	T	Y	6.50 3.2	"A BSS transmits beacons in two PHY modes,...". A BSS does not transmit beacons an AP does, or beacons are transmitted in a BSS.	Replace "A BSS transmits beacons in two PHY modes" with "An HE AP STA transmits beacons in two PHY modes,"	2017/1/9 9:42
5421 Graham Smith	225	1 3.2	6	51	T	Y	6.51 3.2	"...beacons transmitted in HE_EXT_SU PHY format enables..." Previous sentence does not mention this "HE_EXT_SU PHY format"	Replace " HE_EXT_SU PHY" with "HE extended range PHY" or vice versa.	2017/1/9 9:42
5422 Graham Smith	225	1 3.2	6	51	E	Y	6.51 3.2	"The beacons transmitted in HE_EXT_SU PHY format enables BSS discoverability and BSS operating parameters distribution in the whole BSS coverage." Do we normally include a reason for the feature? I don't think so.	Delete cited sentence	2017/1/9 9:42
5423 Graham Smith	225	1 4.3.14a	9	18	T	Y	9.18 4.3.14a	"- An HE non-AP STA supporting 20 MHz, 40 MHz, 80 MHz, 160 MHz and 80+80 MHz is also a VHT non-AP STA -- An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" First cited bullet says an HE non-AP STA supports 20, 40, 80, 160 and 80+80. But the second cited bullet says an HE non-AP STA shall only support 20. Is it trying to say that 20MHz is mandatory? Is so, say so. Or is thhis just a copy from the 2.4GHz band case and if so should not be here at all? What is it?	Delete "only" or delete bullet.	2017/1/9 9:42
5424 Graham Smith	225	1 4.3.14a	9	38	T	Y	9.38 4.3.14a	Here at L38 we see that there is mandatory support required for 160MHz but the features for an VHT STA, as refered to in line 29 have 160 as optional. Is 160 mandatory for HE? If so need to state such. If not then this needs to be optional. Which is it?	Sort it out as per comment	2017/1/9 9:42
5425 Graham Smith	225	1 4.3.14a	9	65	T	Y	9.65 4.3.14a	There is no mention of Spatial Reuse - true the spatial reuse schemes in the draft leave a lot to be desired but, who knows, maybe we will end up with something that actually will work (DSC for example). Considering that the original idea behind 11ax was for improving throughput across an area and that spatial reuse is, in fact, a very important part of that, it is amazing that it somehow got lost and we ended up with mostly go faster stripes (making it simply a straight follow on previous amendments rather than really looking at providing the means to improve area throughput by planning).	Add at leats a passing mention that spatial reuse scheme(s) are a component of HE.	2017/1/9 9:42
5426 Graham Smith	225	1 6.3.3.3.2	11	26	T	Y	11.26 6.3.3.3.2	Why use different description than either HT or VHT? Aso not so sure anything is 'specified' here, it is simply a list.	Change "Specifies the parameters within the HE Capabilities element that are supported by the STA." to "The values from the HE Capabilities element."	2017/1/9 9:42
5427 Graham Smith	225	1 6.3.3.32	11	35	T	Y	11.35 6.3.3.32	Why use different description than either HT or VHT? Aso not so sure anything is 'specified' here, it is simply a list.	Change "Specifies the parameters within the HE Operation element that are supported by theAP." to "The values from the HE Operation element."	2017/1/9 9:42
5428 Graham Smith	225	1 6.3.7.4.2	12	37	T	Y	12.37 6.3.7.4.2	Ehere did "peer STA" come from?	Delete "peer"	2017/1/9 9:42
5429 Graham Smith	225	1 6.3.8.4.2	13	5	T	Y	13.05 6.3.8.4.2	Ehere did "peer STA" come from?	Delete "peer"	2017/1/9 9:42

5430 Graham Smith	225	1 6.3.11.2.2	13	39	T	Y	13.39 6.3.11.2.2	Why use different description than either HT or VHT? I think the only terms using "MAC entity" are DMG related, do we really want to follow that. HT and VHT use "supported by the STA".	Replace 'MAC entity" wirh "STA"	2017/1/9 9:42
5431 Graham Smith	225	1 6.3.27.4.2	13	61	E	Y	13.61 6.3.27.4.2	Clause number duplicated	Delete duplication	2017/1/9 9:42
5432 Graham Smith	225	1 8.3.5.10.3	15	65	T	Y	15.65 8.3.5.10.3	What has IPI got to do with it? The only parameter present in this primitive is IPI STATE. This has nothing to do with OBSS_PD.	Delete this instruction completely.	2017/1/9 9:42
5433 Graham Smith	225	1 9.2.4.5.4	20	44	T	Y	20.44 9.2.4.5.4	"For a frame that is carried in a DL HE MU PPDU: The Ack Policy subfield for the frame that solicits an immediate response in an HE Trigger-based PPDU is set to this value (MU Ack). The addressed recipient returns an Ack, BlockAck, or Multi-STA BlockAck frame in the HE trigger-based PPDU format after a SIFS period, according to the procedures defined in 10.3.2.11.2 (Acknowledgement procedure for HE MU PPDU in MU format) and 27.5.2 (UL MU operation)." This seems to be against the idea of the "No explicit acknowledgement" which is the basic meaning of this setting. Te basic intention is that the response is something other than an ACK type. But here we see that theaddressed recipient returns an ACK, Block ACk or Multi-STA Block Ack which is totlay against the use of this setting.	Use either setting 1,1 or 0,0	2017/1/9 9:42
5434 Graham Smith	225	1 9.2.4.5.6	21	14	T	Y	21.14 9.2.4.5.6	"The queue size value is the total size, rounded up to the nearest multiple of 256 octets and expressed in units of 256 octets, of all MSDUs and A-MSDUs buffered at the STA (excluding the MSDU or A-MSDU of the present QoS Data frame sent by a non-HE STA and including the MSDUs or A-MSDUs contained in the present (A-)MPDU sent by an HE STA) in the delivery queue used for MSDUs and A-MSDUs." The original instructionm seems pretty clear - Do not include the (A)-MSDUs in the present data frame. For the HE the instructions seems to be to include what's in the present data frame. So do we set out to be deliberately awkward? Why different?	Make the use as close as possible to non HE STAs	2017/1/9 9:42
5435 Graham Smith	225	1 9.2.4.5.6	21	19	T	Y	21.19 9.2.4.5.6	"If a QoS Data frame is fragmented and is not carried in an A-MPDU, the queue size value can remain constant in all fragments even if the amount of queued traffic changes as successive fragments are transmitted. If a QoS Data frame is fragmented and is carried in an A-MPDU, the queue size value is set as defined in 10.13.1 (A-MPDU contents)." 10.13.1 does not mention queue size, so the reference must be wrong	Find the right reference.	2017/1/9 9:42
5436 Graham Smith	225	1 9.4.2.6.1	21	60	T	Y	21.60 9.4.2.6.1	"The VHT subfield, which is B0 of the HT Control field, and the HE subfield, which is B1 of the HT Control field, indicate the variant of the HT Control field." The HE subfield is not present in the HT variant, therefore this 'further' indicates the varaint.	Replace ", indicate" with ",further indicates"	2017/1/9 9:42
5437 Graham Smith	225	1 9.2.4.6.4.1	22	49	E	Y	22.49 9.2.4.6.4.1	Figure 9-15a why the double arrow above the drawing, can't see what purpose it is serving. (Also it should have been "Aggregated"	Remove double arrow "Aggregate Control"	2017/1/9 9:42

5438	Graham Smith	225	1 9.2.4.6.4.1	23	44	T	Y	23.44 9.2.4.6.4.1	"The Padding subfield, if present, follows the last Control subfield and is set to a sequence of zeros so that the length of the A-Control subfield carried in the HT Control field is 30 bits." This is only carried in the HT Control field and the length is fixed to 30 bits. A look at the individual Control Information shows that they have reserved bits. Hence, surely each should simply have the necessary number of reserved bits to make them 30 bits in length. Then we use reserved bits in place of padding bits which is cleaner and also more flexible.	Remove the "Length..." column from Table 9-18a. Delete cited text. Note that for each of the Control information subfields the number of reserved bits is increased so tat the subfield is 30 bits.		2017/1/9 9:42
5439	Graham Smith	225	1 9.2.4.6.4.2	24	6	T	Y	24.06 9.2.4.6.4.2	Increase Reserved bit number to make length 30 bits	Figure 9-15c change Reserved bits from 1 to 5		2017/1/9 9:42
5440	Graham Smith	225	1 9.2.4.6.4.3	24	50	T	Y	24.50 9.2.4.6.4.3	Increase Reserved bit number to make length 30 bits	Figure 9-15d change Reserved bits from 3 to 21		2017/1/9 9:42
5441	Graham Smith	225	1 9.2.4.6.4.4	25	19	T	Y	25.19 9.2.4.6.4.4	Increase Reserved bit number to make length 30 bits	Figure 9-15e change Reserved bits from 9 to 23		2017/1/9 9:42
5442	Graham Smith	225	1 9.2.4.6.4.5	25	47	T	Y	25.47 9.2.4.6.4.5	Add Reserved bit number to make length 30 bits	Figure 9-15f add Reserved bits 4		2017/1/9 9:42
5443	Graham Smith	225	1 9.2.4.6.4.6	27	27	T	Y	27.27 9.2.4.6.4.6	Increase Reserved bit number to make length 30 bits	Figure 9-15g change Reserved bits from 2 to 24		2017/1/9 9:42
5444	Graham Smith	225	1 9.2.4.6.4.7	27	57	T	Y	27.57 9.2.4.6.4.7	Increase Reserved bit number to make length 30 bits	Figure 9-15h change Reserved bits from 2 to 22		2017/1/9 9:42
5445	Graham Smith	225	1 9.2.4.6.4.8	29	6	T	Y	29.06 9.2.4.6.4.8	Increase Reserved bit number to make length 30 bits	Figure 9-15i change Reserved bits from 6 to 28		2017/1/9 9:42
5446	Graham Smith	225	1 9.2.4.7	29	58	T	Y	29.58 9.2.4.7	Why is the VHT Capabilities Information field referenced and not the HE Capabilities field? Should it not reference Table 9-262z?	Change reference to Table 9.262z		2017/1/9 9:42
5447	Graham Smith	225	1 9.2.4.7	30	26	T	Y	30.26 9.2.4.7	Why is the VHT PHY characrteristics referenced and not the HE ? Should it not reference Table 28-46?	Change reference to Table 28-46		2017/1/9 9:42
5448	Graham Smith	225	1 9.2.5.2	31	11	T	Y	31.11 9.2.5.2	"In an MU-RTS frame, the Duration/ID field is set to the estimated time, in microseconds, required for the pending frame,...". Should be "...required to transmit the pending frame..."	Change "required for the pending frame" to "required to transmit the pending frame"		2017/1/9 9:42
5449	Graham Smith	225	1 9.2.5.2	31	20	T	Y	31.20 9.2.5.2	"In a MU-BAR frame, the Duration/ID field is set to the time required for the solicited HE trigger-based PPDU plus one SIFS." Should be "time required to transmit the solicited"	Change " required for the solicited" to "required to transmit the solicited"		2017/1/9 9:42
5450	Graham Smith	225	1 9.3.1.9.1	34	23	T	Y	34.23 9.3.1.9.1	"The RA field of the BlockAck frame that is not a Multi-STA BlockAck variant is set to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged." Why did you change the existing text, it looked pretty clear as it was. Then insert a para so as to differentiate the HE additions.	Revert cited sentence back to original and then add para break.		2017/1/9 9:42
5451	Graham Smith	225	1 9.3.1.9.1	34	25	T	Y	34.25 9.3.1.9.1	"An HE AP that transmits a Multi-STA BlockAck frame with different values of the AID subfield in Per STA Info subfields sets the RA field to the broadcast address. An HE AP that transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields sets the RA field to the address of the recipient STA that requested the Block Ack or to the broadcast address." Why not then simply set the RA to the broadcast address and make this bit really simple for the AP?	Keep it simple and just set the RA to broadcast address. Replace all cited text with "An HE AP that transmits a Multi-STA BlockAck frame sets the RA field to the broadcast address."		2017/1/9 9:42

5452	Graham Smith	225	1 9.3.1.9.1	34	30	T	Y	34.30 9.3.1.9.1	"An HE non-AP STA transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields and sets the RA field to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged." Why do we have the instruction for the AID here? This is for the RA which is set to the address of the recipient.	Replace all cited text with "An HE non-AP STA transmits a Multi-STA BlockAck frame sets the RA field to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged."		2017/1/9 9:42
5453	Graham Smith	225	1 27.2.1	16	149	T	Y	17.49 27.2.1	This intra inter BSS stuff is a concern. The uses for this are OBSS_PD spatial reuse, intra-PPDU power save and the two NAV idea. The decision to transmit over another packet has nothing to do with whether they are in different BSSs. OBSS_PD has no indications of how to pick a value and although it seems on the surface a good idea to never transmit over an intra PPDU, if the STA wanders away it should be encouraged to transition not be extra protected. If transmitting over causes any packet to fail, then it is wrong whether it is in the same BSS or not. The inter_BSS Power save idea saves what? Any STA that determines the packet is not send to it, can doze if it wants. But it still has to have read the packet duration and the NAV to do this, so can't see why inter_BSS packet is any different and what time does it really save if using the color etc? Two NAVs is strange as if either NAV is nonzero, then	Delete Intra and Inter BSS detection.		2017/1/9 9:42
5454	Graham Smith	225	1 27.2.1	27	149	T	Y	28.49 27.2.1	"The RA field, TA field or BSSID field of the received frame with the Individual/Group bit forced to the value 0 is the same as the BSSID of AP to which the STA is associated" The forcing the Individual/Group bit to 0 only applied to RA and TA fields, not to the BSSID. Needs rewording.	To read "The RA field or TA field of the received frame with the Individual/Group bit forced to the value 0, or the BSSID field, is the same as the BSSID of AP to which the STA is associated"		2017/1/9 9:42
5455	Graham Smith	225	1 27.2.1	31	149	T	Y	32.49 27.2.1	", and the RA field, TA field or BSSID field of the received frame with the Individual/Group bit forced to the value 0 is same as the BSSID of any member of the Multiple BSSID Set"	To read "and the RA field, TA field of the received frame with the Individual/Group bit forced to the value 0, or the BSSID field, is the same as the BSSID of any member of the Multiple BSSID Set"		2017/1/9 9:42
5456	Graham Smith	225	1 27.2.1	46	149	T	Y	47.49 27.2.1	"A frame received by the STA is an inter-BSS frame if one of the following conditions is true:" Having ploughed through the intra-BSS conditions, do we really need to have all these? Why not simply say if none of the intra-BSS conditions is met, then the frame is considered and inter-BSS frame?	Replace with "Otherwise a frame received by the STA is an inter-BSS frame." AND delete P150L15-16.		2017/1/9 9:42
5457	Graham Smith	225	1 27.2.2	24	150	T	Y	25.50 27.2.2	"An HE non-AP STA shall maintain two NAV timers" This should not be mandatory. It goes totally against the basic contention for 802.11. If two BSSs are next to each other and overlapping (as per the cell enterprise scenario 3CH) then maintaining a special NAV for each BSS does not make sense. It could cause chaos as the two BSSs cannot now share. At the best this should be deleted, at the least it should be optional.	Replace cited text with"An HE non-AP STA may maintain two NAV timers", or delete the entire section.		2017/1/9 9:42

5458	Graham Smith	225	1 27.2.2	36	150	T	Y	37.50 27.2.2	"basic NAV" is the inter-BSS or don't know, note the non capitalized 'b'. This therefore re-defines NAV as not using intra-BSS packet durations. Surely this IS the basic NAV. What is the justification for doing this seperation anyhow? If either is nonzero then the medium is busy. The NAV is always set by the last received packet so even in this two NAV case, one of them will be set. So I fail to see the difference.	Scrap this idea		2017/1/9 9:42
5459	Graham Smith	225	1 27.2.2	57	151	T	Y	58.51 27.2.2	" Maintaining two NAV is beneficial in dense deployment scenarios where a STA requires protection from frames transmitted by STAs within its BSS, i.e., intra-BSS, and avoid interference from frames transmitted by STAs in neighboring BSS, i.e., inter-BSS. " The whole idea of NAV is to keep the medium clear for a time to allow the packet exchange to complete. Hence the claim that this provides protection to intra packets is nothing new, also nothing to do with dense environments, so this statement is meaningless.	Delete this or explain better what the diffference is. This is nothing new.		2017/1/9 9:42
5460	Graham Smith	225	1 27.2.2	60	151	T	Y	61.51 27.2.2	"For example, in a TXOP initiated by the associated AP for UL MU transmission, the intra-BSS NAV of the STA can be set by the AP to prevent the STA from contending the channel, and the basic NAV will not be updated by the associated AP so that NAV set by inter-BSS PPDU can be considered in UL MU CS as described in 27.5.2.4 (UL MU CS mechanism)." I try to understand the example. So the intra NAV is set, as normal, but the basic NAV is not. The example then says look at 27.5.2.4. I look but there all I see is "If one or both of the NAVs are considered and the considered NAV's counter is nonzero, then the virtual CS indicates busy." (P170L37) So if either NAV is set, which it will be, the medium is busy. Try as I might I don't get it.	Either use an example that actually explains the idea and shows that it actually does something, or, if this is not possible, lose this dual NAV idea.		2017/1/9 9:42
5461	Graham Smith	225	1 27.2.2	33	150	E	Y	34.50 27.2.2	"For the two NAVs maintained by an HE STA, one is identified as intra-BSS NAV, and the second one is identified as basic NAV." Awkward. Better to put this at line 25.	At P150L25 add new sentence, to read "The two NAV timers are identified as intra-BSS NAV, and basic NAV." AND delete cited sentence.		2017/1/9 9:42
5462	Graham Smith	225	1 27.2.2	37	150	E	Y	38.50 27.2.2	"Note that the method of identifying a PPDU as intra-BSS or inter- BSS is described in 27.2.1 (Intra-BSS and inter-BSS frame detection)." Why not just "(see 27.2.1 (Intra-BSS and inter-BSS frame detection))"?	After "intra-BSS or inter-BSS add (see 27.2.1 (Intra-BSS and inter-BSS frame detection)). AND delete cited text		2017/1/9 9:42
5463	Graham Smith	225	1 27.2.2	44	150	T	Y	45.50 27.2.2	Why do we need a duration for a PS-Poll? And why the same as the duration for any data frame (ACK + SIFS)? A PS-poll does not get AcK'd (I think), and also does this mean the PS-Poll has to be sent as an HE frame? I just don't see where the advantage of this 2 NAV idea comes from. Also why point out a duration is a duration? This obsession with inter and intra is beyond me, it just gets more and more complicated. Maintaining 2 NAVs is not trivial, the advantages are not obvious if at all, and making it mandatory seems adsurd .	Delete Lines 40 - 48		2017/1/9 9:42

5464	Graham Smith	225	1 27.2.2	57	150	T	Y	58.50 27.2.2	"The STA is not solicited an immediate response by the PPDU carrying the frame." This does not read right.	Should it be "The PPDU carrying the frame is not soliciting an immediate response from the STA."	2017/1/9 9:42
5465	Graham Smith	225	1 27.2.2	59	150	T	Y	60.50 27.2.2	"The frame is not solicited by the STA if the STA is a TXOP holder" I have no idea what this means. Clarify	Clarify the meaning	2017/1/9 9:42
5466	Graham Smith	225	1 27.2.2	1	151	T	Y	2.51 27.2.2	"The frame is identified as inter-BSS or cannot be identified as intra-BSS or inter-BSS" if the frame is not identified as an intra it should be seen as an inter.	Replace sentence with "The frame is not identified as an intra-BSS frame (see 27.2.1 (Intra-BSS and inter_BSS frame detection))"	2017/1/9 9:42
5467	Graham Smith	225	1 27.2.2	5	151	T	Y	6.51 27.2.2	"The STA is not solicited an immediate response by the PPDU carrying the frame." This does not read right.	Should it be "The PPDU carrying the frame is not soliciting an immediate response from the STA."	2017/1/9 9:42
5468	Graham Smith	225	1 27.2.2	28	151	T	Y	29.51 27.2.2	"The PPDU that carried information for the RXVECTOR parameter is identified as inter-BSS or cannot be identified as intra-BSS or inter-BSS according to the rule described in 27.2.1 (Intra-BSS and inter-BSS frame detection))". Anything that is not intra, is inter.	Replace cited with "The PPDU that carried information for the RXVECTOR parameter is identified as inter-BSS (see 27.2.1 (Intra-BSS and inter-BSS frame detection))."	2017/1/9 9:42
5469	Graham Smith	225	1 27.3.2	1	153	T	Y	2.53 27.3.2	"Fragmentation of A-MSDUs is permitted when supported by the recipient". How does the STA know? Can't just say this, need to have something specific, "when xxx is present in the yyy" or such	Change the sentence to read along the lines of "Fragmentation of A-MSDUs is permitted when xxx is ...." (add specific that identifies that a STA supports it, i.e. something in the HE Capabilities?)	2017/1/9 9:42
5470	Graham Smith	225	1 27.3.3.2	47	153	T	Y	48.53 27.3.3.2	What is an S-MPDU? I can't find a definition of what this is, here or in 11mc. Assuming it is 'single MPDU', isn't this because all MPDUs are treated as A-MPDUs in VHT? So what is difference between MPDU amd S-MPDU, and non-A-MPDU? Let's see how complicated we can make this.	Define S-MPDU somewhere or better still just use 'single MPDU' if it really is different from MPDU.	2017/1/9 9:42
5471	Graham Smith	225	1 27.3.3.2	1	154	E	Y	2.54 27.3.3.2	"10.13.8 (Transport of S-MPDUs)" That is not the correct title for 10.13.8 in 11mc D8.0.	Use correct reference ans consider not introducing this "S_MPDU" term.	2017/1/9 9:42
5472	Graham Smith	225	1 27.3.3.2	50	154	E	Y	51.54 27.3.3.2	"An originator STA may transmit to a recipient STA an MPDU or S-MPDU that contains one dynamic fragment of an AMSDU if the recipient STA has indicated a value of 1 in the A-MSDU Fragmentation Support field of its HE Capabilities element". This is repeated on the next line L55-58. Hence delete here.	Delete cited text	2017/1/9 9:42
5473	Graham Smith	225	1 27.3.3.3	29	154	T	Y	30.54 27.3.3.3	"Up to one dynamic fragment of an MSDU, A-MSDU." That means nothing or one, so the STA may transmit nothing? Does it need a rule for that?	Replace cited text with "One dynamic fragment of an MSDU, A-MSDU."	2017/1/9 9:42
5474	Graham Smith	225	1 27.3.3.3	29	154	T	Y	30.54 27.3.3.3	"Up to one dynamic fragment of an MSDU, A-MSDU if supported by the recipient, or MMPDU for each MSDU and for the MMPDU in an A-MPDU format". Struggling to see how this differs from the bullet above it. The first bullet says a fragment iof an MSDU, A-MSDU and I can't see what "for each MSDU" means. Everything is an A-MPDU format.	Clarify the difference, if any, between these two bullets.	2017/1/9 9:42
5475	Graham Smith	225	1 27.11.4	42	196	T	Y	43.96 27.11.4	"An HE STA transmitting an HE Operation element shall select a value in the range 1 to 63 to include in the BSS Color subfield of the HE Operation element that it transmits..." So color is mandatory. Why? The three uses, OBSS_PD, inter-PPDU PS and two NAVs all can be done without color. Also the seperate treatment of the inter and intra packets is dangerous in the cases where the OBSS is close by.	Make color optional at the least. "An HE STA transmitting an HE Operation element may select a value in the range 1 to 63 to include in the BSS Color subfield of the HE Operation element that it transmits..."	2017/1/9 9:42

5476	Graham Smith	225	1 27.11.5	49	196	T	Y	50.96 27.11.5	"An HE STA receiving an HE Operation element shall set the TXVECTOR parameter BSS_COLOR..." Color should be optional at least.	"An HE STA receiving an HE Operation element may set the TXVECTOR parameter BSS_COLOR..."	2017/1/9 9:42
5477	Graham Smith	225	1 27.11.4	54	196	T	Y	55.96 27.11.4	"An HE STA that received an HE PPDU with RXVECTOR parameter BSS_COLOR with a value between 1 and 63 may ignore the HE PPDU subject to the rules as described in 27.9 (Spatial reuse operation)." This is a seperate rule that is not required here.	Delete cited sentence	2017/1/9 9:42
5478	Graham Smith	225	1 27.11.4	14	196	T	Y	15.96 27.11.4	So the STA receives a packet forom the AP to which it is associated, and needs to go throught these hoops to prove that it is from the AP to which it is associated. Does not make sense. Apart from that the two NAVs is a bad idea anyway, and the doze duration of the intra-PPDU power save ecannot soley use color, it is quite clear that a STA will just use the good old BBSID. This is just another indication of complexity for complexity's sake.	Delete lines 14 to 25.	2017/1/9 9:42
5479	Graham Smith	225	1 27.11.4	27	197	T	Y	28.97 27.11.4	"The HE non-AP STA may use the BSS color if the most recently received HE Operation element from the AP to which it is associated contained a value of 0 in the BSS Color Disabled subfield." So this is optional. Hence color should be optional	Make Color optional	2017/1/9 9:42
5480	Graham Smith	225	1 27.9.1	6	190	T	Y	7.90 27.9.1	"The objective of the HE spatial reuse operation ..." 'The' HE spatial reuse scheme indicates ther is one scheme, not true.	Delete 'the' from cited text	2017/1/9 9:42
5481	Graham Smith	225	1 27.9.1	6	190	T	Y	7.90 27.9.1	The objective of the HE spatial reuse operation is to improve the system level performance, the utilization of medium resources and power saving in dense deployment scenarios by early identification of signals from overlapping basic service sets (OBSSs) and interference management." This does not mention the basic idea in that spatial reuse allows channels to be reused more often in dense deployments.	Replace cited text with "The objective of HE spatial reuse operation is to allow channels to be reused more often across a dense deployment."	2017/1/9 9:42
5482	Graham Smith	225	1 27.9.1	10	190	T	Y	11.90 27.9.1	"When the conditions specified in 27.9 (Spatial reuse operation) are met that allow the transmission of an SR PPDU, an HE STA may transmit an SR PPDU to either an HE STA or a non-HE STA." What is an SR PPDU, it is only mentioned in this sentence. Delete, does not make sense.	Delete cited text	2017/1/9 9:42

5483	Graham Smith	225	1 27.9.2	19	190	T	Y	20.90 27.9.2	" If the PHY of a STA issues a PHY-CCA.indication with a value equal to BUSY followed by an RXSTART.indication due to a PPDU reception then the STA's MAC sublayer may a) issue a PHYCCARESET. request primitive and b) not update its NAV timers based on frames carried in the PPDU if all the following conditions are met:" So it first says BUSY, then checks it is from an OBSS, then checks the RSSI to see if below the OBSS_PD, then it can reset the CCA and not update NAV. This is the complication for only looking at OBSS. The only possible reason for restricting this to OBSS is that all the other STAs in the same network are further away than OBSS STAs. It is pretty difficult to see a set up where setting a CCA value for OBSS_PD would be such that the same value excluded STAs in the wanted network. On top of that, the mere fact of having to go through all the rules to ensure that it is in fact an inter	The OBSS_PD scheme should be dropped. There is no reason to set a threshold only fopr OBSS.	2017/1/9 9:42
5484	Graham Smith	225	1 27.9.2.1	26	190	T	Y	27.90 27.9.2.1	"The RXVECTOR parameter RSSI_LEGACY in the PHY-RXSTART.indication primitive, which defines the received power level measured from the legacy portion of the PPDU is below the OBSS_PD level (defined in 27.9.2.2 (Adjustment of OBSS_PD and transmit power))" But 27.9.2.2 does not define any level for OBSS_PD. It just says between -62 and -82 dBm. Furthermore is appears to complicate matters by providing a formula to change it with TXPWR. As we have no idea what OBSS_PD is, this statement cited here is unusable. Nowhere can I find an actual definition of OBSS_PD.	(I would prefer that this scheme were deleted but I will have to settle for) Add a definition of OBSS_PD and refer to that.	2017/1/9 9:42
5485	Graham Smith	225	1 27.9.2.1	37	190	T	Y	38.90 27.9.2.1	"...RXVECTOR parameter SPATIAL_REUSE indicates SR_Delay." What is SR_Delay? At P274L13 it mentions it but then refers to this cited section and I note that "This section needs further development". Yes it does indeed, SR_Delay needs to either dropped or defined.	I dread to say but whatever SR_Delay is it needs to be explained.... or dropped. I just hope this is not another complicated scheme purely designed to avoid DSC. Delete cited text.	2017/1/9 9:42
5486	Graham Smith	225	1 27.9.2.1	50	190	T	Y	51.90 27.9.2.1	"SR Backoff procedure for SR delayed case". Thius looks like it was meant as a heading but as SR delayed is not defined none of this makes sense.	Delete lines 50 - 57	2017/1/9 9:42
5487	Graham Smith	225	1 27.9.2.2	3	191	T	Y	4.91 27.9.2.2	"Adjusting the OBSS_PD level and transmit power can improve the system level performance and the utilization of the spectrum." A bold statement, partially true but not telling the whole story. Do we need the publicity? Delete	Delete cited text	2017/1/9 9:42
5488	Graham Smith	225	1 27.9.2.2	5	191	T	Y	6.91 27.9.2.2	"...an HE STA is allowed to adjust the OBSS_PD level in conjunction with its transmit power based on the following adjustment rule:" "Is allowed to", this reads as a "may" so use the correct term so no confusion.	Replace "is allowed to" with "may"	2017/1/9 9:42
5489	Graham Smith	225	1 27.9.2.2	7	191	T	Y	8.91 27.9.2.2	"Allowable OBSS_PDlevel", not sure what the "allowable" is supposed to mean. Is this the rule for OBSS_PDlevel, or the rule for OBSS_PD or is it a new term OBSS_PDlevel? Please clarify.	Clarify as poer comment or delete "Allowable"	2017/1/9 9:42
5490	Graham Smith	225	1 27.9.2.2	39	191	T	Y	40.91 27.9.2.2	"The OBSS_PDlevel". We need to add "value of"	"The value of the OBSS_Pdlevel"	2017/1/9 9:42

5491	Graham Smith	225	1 27.9.2.2	39	191	T	Y	40.91 27.9.2.2	"The OBSS_PDlevel is applicable to the start of a 20 MHz PPDU received on the primary 20 MHz channel". This plus the following sentences are a very long winded way of trying to say that the CCA level is adjusted with bandwidth. Simply state that if the bandwidth fiffers from 20MHz the value is increased by 10 log (Bandwidth/20MHz)	Replace L39-49 with "If the bandwidth of the received PPDU differs from 20 MHz, then the value of the OBSS_PDlevel is increased by 10 LOG (bandwidth/20 MHz)"		2017/1/9 9:42
5492	Graham Smith	225	1 27.9.2.2	7	191	T	Y	8.91 27.9.2.2	In the formula the underscaore has gone missing for the OBSS_PD max and min so as to agree with the figure.	Insert underscores for the OBSSPDmax and OBSSPDmin		2017/1/9 9:42
5493	Graham Smith	225	1 27.9.2.2	10	191	T	Y	11.91 27.9.2.2	The figure and accompanying text breaks the terms used int eh formula. The figure needs to be moved down to come after present P192L2 and also the word 'where' needs to be inserted before TXPWRref. Maybe indent as well for clarity	edits as per comment		2017/1/9 9:42
5494	Graham Smith	225	1 27.9.2.2	3	192	T	Y	4.92 27.9.2.2	"A STA can select an OBSS_PDlevel during its operation under SR mode." No idea what SR mode is supposed to mean, what is it? Is it given permission? This gets important when we consider the next sentence on L7. Also, which is much more important, this says a STA can effectively select any OBSS_PD level. No explaination as to how to go about it, this is the path to anarchy, the whole point about SR is that rules are needed to stop some STAs from simply ignoring all other STAs. As the opening sentence says that adjusting the TX PWR is a 'may', then this can be interpreted, correctly, that OBSS_PD applies to any inter_BSS packet, so haviug no rule for setting the effective CCA level is a huge omission. DSC has defined exactly how to do it. In addition, there is no need to set the effective CCA threshold for inter-BSS packets, it makes no difference.	What is SR mode? Adopt text in 16/1063		2017/1/9 9:42
5495	Graham Smith	225	1 27.9.2.2	3	192	T	Y	4.92 27.9.2.2	"This level can be dynamically adjusted or can be static". No explaination or help is given for setting this very important parameter. The only method that has been examined is DSC. There has been general agreement that the effective CCA can be set relative to the range of the STA from its AP, and DSC has been well researched on this. We cannot just leave this value setting open as that will not allow any testin or simulation to take place and simply leaves the whole SR process up in the air.	Adopt text in 16/1064		2017/1/9 9:42
5496	Graham Smith	225	1 27.9.2.2	11	192	T	Y	12.92 27.9.2.2	Equation 27-1 . The first line says that TXPRmax is unconstrained if OBSS_PDlevel>OBSS_PDmin . Surely it should be =< ?	Change = to =<		2017/1/9 9:42
5497	Graham Smith	225	1 27.9.2.2	62	191	T	Y	63.91 27.9.2.2	OBSS_PDmin_default = -82 dBm and OBSS_PDmax_default = -62 dBm. Are you defining new parameters or just providing simple default values. These terms do not appear in the equation so this is wrong and should simply be a statement that these values can be used a defaults.	Replace with "Recommended value for OBSS_PDmin is -82dBm and for OBSS_PDmax = -62 dBm."		2017/1/9 9:42
5498	Graham Smith	225	1 27.9.2.2	20	192	E	Y	21.92 27.9.2.2	I don't think that "TB" is defned anywhere. I assume it means 'trigger based'	Define TB		2017/1/9 9:42

5499	Graham Smith	225	1 27.9.2.2	16	192	T	Y	17.92 27.9.2.2	"If a STA regards an inter-BSS PPDU as not having been received at all using a specific OBSS_PDlevel." This is not the description of the OBSS_PD idea as per P190L19-34. Surely this is supposed to refer to the reception of an inter-BSS packet at a signal strength less than OBSS_PDlevel. Actually this has nothing to do with what follows as the TXPWR is set by the OBSS_PD value selection irrespective if there is a packet received or not. If the STA selects a particular OBSS_PD then it sets the TXPWR accordingly.	Delete cited text		2017/1/9 9:42
5500	Graham Smith	225	1 27.9.2.2	16	192	T	Y	17.92 27.9.2.2	"If a STA regards an inter-BSS PPDU as not having been received at all using a specific OBSS_PDlevel, the STA's power as measured at the output of the antenna connector, shall be equal or lower than the TXPWRmax, calculated with this specific OBSS_PDlevel with Equation (27-1)." Does the STA only adjust TXPWR when receiving an inter_BSS packet? That does not agree with teh rule as per P191L5-7 and equation 27-1 where it seems to say that if the TA chooses a particular OBSS_PD level, then the TXPWR is always set accordingly - nothing to do with reception. OR is this not the case? - very confusing.	Reword as "The STA's power as measured at the output of the antenna connector, shall be equal or lower than the TXPWRmax, calculated with the chosen OBSS_Pdlevel, as per Equation (27-1)."		2017/1/9 9:42
5501	Graham Smith	225	1 27.9.2.2	19	192	T	Y	20.92 27.9.2.2	"for the transmissions of any PPDU (including UL TB PPDU) until the end of the TXOP that the STA gains once its backoff reaches zero. The STA may increase the OBSS_PDlevel during the backoff procedure, its maximum transmit power being adjusted as defined above." All this is not required. The STA must use a maximum TXPWR once it chooses its OBSS_PD level. No need to describe the actions for a transmit power.	Delete cited text. This complete sentence L16-22 should read "The STA's power as measured at the output of the antenna connector, shall be equal or lower than the TXPWRmax, calculated with the chosen OBSS_Pdlevel, as per Equation (27-1)."		2017/1/9 9:42
5502	Graham Smith	225	1 27.9.2.2	22	192	T	Y	23.92 27.9.2.2	"The minimum OBSS_PDlevel used by the STA shall be above the received signal strength of the inter-BSS PPDU, which means that the maximum TXPWRmax shall be calculated with OBSS_PDlevel equal to the received signal strength of the inter-BSS PPDU, with Equation (27-1)." Again, the actual signal level has nothjing to do with this 'scheme'. The STA choses an OBSS_PD and thus sets its max TXPWR, that's it. I don't like it, but that that is what is previously described. It does not vary its TXPWR based upon the received signal strength.	Delete cited text.		2017/1/9 9:42

5503	Graham Smith	225	1 27.9.2.2	1	191	T	Y	2.91 27.9.2.2	This clause is confusing in that on one hand it seems to say that a STA selects an OBSS_PD level (no indication of how) and then sets its TXPWR accordingly. It does not make it clear whether this is a mandatory link between the TXPWR and OBSS_PD. If not mandatory I can't see why any STA would ever do it as by so doing it opens itself up to interference from STAs which do not do it. If it is mandatory then again I can't see why any STA would ever implement it - but they want to, go ahead. At the end of the clause it seems to be talking about only setting the TXPWR when receiving an inter-OBSS packet, but this does not make sense as the TXPWR is fixed by the selection as an OBSS_PD level. If this scheme is to be kept, (and I would argue that it should not be), then at least make it clear what it actually is and how it is to be implemented.	Clarify what the scheme is or delete the scheme.		2017/1/9 9:42
5504	Graham Smith	225	1 27.11.6	22	198	T	Y	23.98 27.11.6	"Spatial Reuse field is carried in the TXVECTOR parameter SPATIAL_REUSE of an HE PPDU and indicates spatial reuse information (See 27.9.2 (OBSS_PD-based spatial reuse operation))." I see no mention of SPATIAL_REUSE in 27.9.2. Also SR_Delay setting is sort of mentioned but not described anywhere, same with SR_Restricted entry. It looks like this text precedes the acceptanceor description of the feature. Delete.	Delete 27.11.6		2017/1/9 9:42
5505	Graham Smith	225	1 27.14.1	14	199	E	Y	15.99 27.14.1	"An HE non-AP STA has dot11IntraPPDUPowerSaveOptionActivated equal to true operates", missing 'that'	Replace with "An HE non-AP STA that has dot11IntraPPDUPowerSaveOptionActivated equal to true operates.."	2017/1/9 9:42
5506	Graham Smith	225	1 27.14.1	11	199	T	Y	12.99 27.14.1	Yet another power save scheme. In this case it is stating that a STA can go into power save if it is not interested in the received packet. Hmm...it can do that now withut the need to define what packets the STA is not interested in. In general if the packet is not for the STA, having checked the NAV/duration a STA could doze if it wants. There is no need to go through all this text which, as I said, merely defines a packet that the STA need not decode. I can't see the need for this at all and furthermore it involves no interoperablity at all and is at the discretion of the STA - if it wants to doze then let it.	Delete the scheme it adds nothing new.		2017/1/9 9:42
5507	Graham Smith	225	1 27.14.2	21	200	T	Y	23.00 27.14.2	"value of 1 in the Broadcast subfield a value of 2 in the TWT Flow Identifier subfield". Is there a missing 'and', or a missing 'or'. Which is it?	Add an "and" or "or" as appropriate.		2017/1/9 9:42

5508 Graham Smith	225	1 27.14.2	25	200	T	Y	27.00 27.14.2	"If random access allocations are made in a sequence of Trigger frames within a trigger-enabled TWT SP, then all the Trigger frames in the sequence shall have the Cascade Indication field set to 1, except for the last Trigger frame in the sequence, which shall have the Cascade Indication field set to 0." THis definitive requirement, I assume, is repeated somewhere else as this is not a requirement of the power save idea. A STA may choose to use the Cascade Indication field to enter the doze state, but how the and what the Cascade Indication fields are set should be in the appropriate place not here.	Either delete the cited text or make it a note, or make a reference.after "Cascade Indication field" in line 30.		2017/1/9 9:42
5509 Graham Smith	225	1 27.14.3.1	42	200	T	Y	44.00 27.14.3.1	"Opportunistic power save mechanism has the objective for an AP to split a beacon interval into several periodic broadcast TWT SPs and to provide, at the beginning of each SP, the scheduling information to all non-AP STAs" The objective is to allow power saving not the splitting of a beacon interval. Needs to be re-written .	Reword "To implement Opportunistic power save, an AP may split a beacon interval into several periodic broadcast TWT SPs and provide, at the beginning of each SP, the scheduling information to all non-AP STAs."		2017/1/9 9:42
5510 Graham Smith	225	1 27.14.3.1	56	200	E	Y	58.00 27.14.3.1	For any HE non-AP STA for which their associated AP set their corresponding bit in the traffic indication..." This reads wrong, this appears to be about APs not STAs so why does it start off talking about a STA?	Reword para. " If an AP sets the bit corresponding to an HE non-AP STA in the traffic indication virtual bitmap field of the TIM element to 0, the AP shall neither send unicast or multicast frames to that STA, nor trigger that STA for UL MU transmissions during the TWT SP and, unless otherwise specified, until the next TWT SP."		2017/1/9 9:42
5511 Graham Smith	225	1 27.15.2	24	201	T	Y	26.01 27.15.2	"An HE STA may transmit non-HT, HT, VHT PPDUs". IS the rule that an HE STA shall be capable of transmitting all these or is it all optional. I would suspect that the intention is that an HE STA shall be capable, if so needs to say so.	Replace cited text with "An HE STA shall be capable of transmitting non-HT, HT, VHT PPDUs"		2017/1/9 9:42
5512 Graham Smith	225	1 27.15.2	26	201	E	Y	28.01 27.15.2	"An HE STA may transmit an HE SU PPDU or a 242-tone HE extended range SU PPDU to a peer HE STA." Is the rule that an HE STA shall be capable of transmitting all these or is it all optional. I would suspect that the intention is that an HE STA shall be capable, if so needs to say so.	Replace cited text with "An HE STA shall be capable of transmitting an HE SU PPDU or a 242-tone HE extended range SU PPDU to a peer HE STA"		2017/1/9 9:42
5513 Graham Smith	225	1 27.15.2	45	201	E	Y	47.01 27.15.2	"...shall be carried in the same format..." "shall be in the same format" is clearer. Looking at 802.11-2016, "Carried in" is normally used for a specific PPDU. Here it is general.	Replace cited text with "shall be in the same format"		2017/1/9 9:42
5514 Graham Smith	225	1 27.15.2	47	201	E	Y	49.01 27.15.2	"...may be carried in any PPDU format..." Looking at 802.11-2016, "Carried in" is normally used for a specific PPDU. Here it is general.	Replace cited text with "...may be in any PPDU format..."		2017/1/9 9:42
5515 Graham Smith	225	1 27.15.2	63	201	E	Y	65.01 27.15.2	"...in non-HT PPDU..." Indefinite article missing	Replace cited text with "in a non-HT PPDU"		2017/1/9 9:42
5516 Graham Smith	225	1 27.15.2	2	202	E	Y	4.02 27.15.2	"in HE extended range" Indefinite article missing	Replace cited text with "in an HE extended range"		2017/1/9 9:42
5517 Graham Smith	225	1 27.15.2	28	202	E	Y	30.02 27.15.2	"A <HE-MCS, NSS> tuple", should be 'an'	Replace "A" with "An"		2017/1/9 9:42
5518 Graham Smith	225	1 27.15.2	28	202	T	Y	30.02 27.15.2	"Supported HE-MCS and NSS Set field in the HE Capabilities element". I can't find this field in the HE Capabilities element. I can find "Tx Rx HE MCS NSS Support" is that it? Also I only find detailed "Tx Rx HE MCS Support field" (Hmm... That's also an error). Which is it?	First correct Figure 9-589cj "Tx Rx HE MCS NSS Support" to read "Tx Rx HE MCS Support" Then change cited text to "Tx Rx HE MCS Support field in the HE Capabilities element"		2017/1/9 9:42
5519 Graham Smith	225	1 9.4.2.218.4	53	86	E	Y	53.86 9.4.2.218.4	"indicates the highest NSS value minus 1, supported by the STA" Comma usage seems wrong, either delete it or add another after "value".	Delete comma in cited text.		2017/1/9 9:42

5520	Graham Smith	225	1 9.4.2.218.4	60	86	T	Y	60.86 9.4.2.218.4	"Channel Bandwidth Set field at each NSS and MCS indicated in the Highest NSS Supported M1 and Highest MCS Supported subfield". Where is this "Channel Bandwidth Set" field? A search in this document finds 4 occurances of the same sentence but I can't find a Figure or Table with it in. Add further information as to where this field is, in all four locations	Add information as to the whereabouts of the the Channel Bandwidth Set field at P86L60, P86L63, P87L34, P87L37.		2017/1/9 9:42
5521	Graham Smith	225	1 9.4.2.218.5	59	88	E	Y	59.88 9.4.2.218.5	"number of NSS values minus one for". Before at P86L53 it used "value minus 1," (Comment to remove the comma). So do we use "minus 1" or "minus one"? Admittedly 802.11-2016 does not help as there are 12 "minus 1" and 5 ",minus one". But in this document we have 17 "minus 1" and only this occurance of "minus one". So a clear decision, change it to "minus 1".	replace "minus one" in cited text to "minus 1".		2017/1/9 9:42
5522	Graham Smith	225	1 27.16.1	34	204	T	Y	36.04 27.16.1	"A STA that is starting an HE BSS shall be able to receive and transmit at each of the <HE-MCS, NSS> tuple values indicated by the Basic HE-MCS And NSS Set field of the HE Operation parameter of the MLMESTART. request primitive and shall be able to receive at each of the <HE-MCS, NSS> tuple values indicated by the Supported HE-MCS and NSS Set field of the HE Capabilities parameter of the MLMESTART. request primitive." This seems backwards to me. Surely the point is that the STA must set these tuples to agree with what it supports, not "shall be able to receive and transmit".	Replace cited text with "A STA that is starting an HE BSS shall set each of the <HE-MCS, NSS> tuple values in the Basic HE-MCS And NSS Set field of the HE Operation parameter and the HE Capabilities parameter of the MLMESTART. request primitive."		2017/1/9 9:42
5523	Graham Smith	225	1 27.16.1	39	204	T	Y	41.04 27.16.1	"The basic HE-MCS and NSS set is the set of <HE-MCS, NSS> tuples that are supported by all HE STAs that are members of an HE BSS." But according to the previous sentence the STA starting the HE BSS can set these as it wants. Surely a basic set is fixed and agreed to be common for all HE BSSs. If not, then don't use "basic". I don't know what "Basic" is meant to convey here but it does need to be spelled out.	Please define what exactly "basic set " is. Is it fixed or set by the originating STA? Also what criteria does it use to set these? Is it really up to the originating STA? Whatever it is, let's please spell it out.		2017/1/9 9:42
5524	Graham Smith	225	1 27.16.1	39	204	T	Y	41.04 27.16.1	P204 lines 39 - 49. It is very unclear as to what, why or how the originalting STA is supposed to set up the basic set. Is there an Annex explaining how the STA decides? Is the idea to limit HE STAs from joining? But what about legacy VHT or HT STAs? I have to admit I don't get it. Why can't the AP STA simply advertize what it can do, I don't see what defining a basic set adds.	Look again at this Basic set feature. It needs to be explained why it is a godd idea and what it adds. If it is a good idea it needs to be explained somewhere how a STA may use it for whatever purpose it is intended for. My recommendation, delete it.		2017/1/9 9:42

5525	Graham Smith	225	1 9.4.2.218.4	34	86	T	Y	34.86 9.4.2.218.4	I am wondering if it is possible to make this Tx Rx HE MCS Support field more complicated? We indicate the highest NSS and MCS, and then indicate, via the bitmaps, the BWs supported. Then we add the Tx and Rx NSS Descriptors. But, the bitmap indicates if Descriptor fields are present, so it is not possible to simply indicate the highest NSS and MCS and BW supported, we have to then add the Descriptors. The description seems to say that the descriptors can be omitted but not if the BW bitmaps can be. So many things come to mind. Should we not indicate which fields are optional for a start, and then get the text to be clear.	Indicate which fields are optional in FIG 9-589cm. Then make clear how the bit maps are used if the "Descriptor" fields are not present.		2017/1/9 9:42
5526	Graham Smith	225	1 9.4.2.218.4	53	86	T	Y	53.86 9.4.2.218.4	P86 Lines 53 - 65. It looks as though this para is supposed to be summary but it fails miserably. It jumps striaght to the Descriptor description without making it clear what the Bitmaps do. It is unclear how the BWs are supported. It talks about a Channel Bandwidth Set which I can't find. The combination of bitmap and Descriptors seems to be a catch-all to allow any and every combination of BW, MCS and NSS - do we really want to do this? Do we really expect a mixture of BW and NSS for example? I can accept that the MCS may vary for a higher BW, say, but do we expect the number of SS to change? I have problems with this...maybe the description is not clear, maybe we need a table to provide examples? Maybe this summary should not be here and maybe should be at the end of the clause.	Move summary, if that's what it is meant to be (not sure as it seems to be repeated on next page,(but that's another comment) to after the individual field descriptions, and provide examples on how it is used.		2017/1/9 9:42
5527	Graham Smith	225	1 9.4.2.218.4	58	86	T	Y	58.86 9.4.2.218.4	"The Highest NSS Supported M1 subfield indicates the highest NSS value minus 1, supported by the STA that transmitted this subfield. The Highest NSS Supported M1 value is applicable to both transmissions and receptions but does not necessarily apply to all combinations of PPDU bandwidth and MCS. The PPDU bandwidth and MCS values that do not support the NSS value indicated in this subfield are described in the Tx MCS NSS Descriptors and Rx MCS NSS Descriptors subfields, if present." This trhe third sentience concerns the last fields and should be associated with those fields. Delete from end of second sentence to end of para.	Delete from end of second sentence to end of para. This description should be moved to after the Descriptor description.		2017/1/9 9:42

5528	Graham Smith	225	1 9.4.2.218.4	30	87	T	Y	30.87 9.4.2.218.4	"The PPDU bandwidth and NSS values that do not support the MCS value indicated in this subfield are described in the Tx MCS NSS Descriptors and Rx MCS NSS Descriptors subfields, if present. If no Tx MCS NSS Descriptors subfield is present, then the STA supports transmission of all combinations of PPDU bandwidth identified by the Channel Bandwidth Set field at each NSS and MCS indicated in the Highest NSS Supported M1 and Highest MCS Supported subfields. If no Rx MCS NSS Descriptors subfield is present, then the STA supports reception of all combinations of PPDU bandwidth identified by the Channel Bandwidth Set field at each NSS and MCS indicated in the Highest NSS Supported M1 and Highest MCS Supported subfields." This para is describing the Highest MCS supported. Leave it at that. We should describe the fields in order, not suddenly jump to the last ones. Delete.	Delete cited text and/or move this text to the end after the description for the Descriptors.		2017/1/9 9:42
5529	Graham Smith	225	1 9.4.2.218.4	56	87	T	Y	56.87 9.4.2.218.4	"If all of the bits of the Tx BW Bitmap subfield and all of the bits of the Rx BW Bitmap subfield are zero, then none of the subfields of the Tx Rx HE MCS Support field beyond Highest MCS Supported need to be present." If the bits are zero then that implies that the fields are present. Therefore the RX and Tx bitmaps have to be present? In addition the field is then only 6 bits. It looks as though the bit fields always have to be there.	Change cited text as follows: "If all of the bits of the Tx BW Bitmap subfield and all of the bits of the Rx BW Bitmap subfield are zero, then the Tx MCS NSS Descriptors and Rx MCS NSS Descriptor sub fields are not present."		2017/1/9 9:42
5530	Graham Smith	225	1 9.4.2.218.4	59	87	T	Y	59.87 9.4.2.218.4	"If either the Tx BW Bitmap subfield or the Rx BW Bitmap subfield has at least one bit set to 1, then both the Tx BW Bitmap subfield and the Rx BW Bitmap subfield are present, even if one of these subfields has the value of all zeros." The bit fields always need to be there based upon previous description (and comment). Simply delete this	Delete cited text.		2017/1/9 9:42
5531	Graham Smith	225	1 9.4.2.218.4	18	88	T	Y	18.88 9.4.2.218.4	Figure 9-589cn. Why 4 bits for the MCS? The Highest MCS only needed 3 (0 to 7). If you add another bit you will need to add a table explaining how the bits are used. Suggest MCS sub field is cut to 3 bits, then add in the text that the coding is as per Table 9-262ab.	MCS sub field cut to 3 bits, then add in the text that the coding is as per Table 9-262ab.		2017/1/9 9:42

5532	Graham Smith	225	1 9.4.2.218.4	64	87	T	Y	64.87 9.4.2.218.4	"Each Tx MCS NSS Descriptor indicates the value of the highest supported NSS for the indicated MCS for a specific bandwidth of operation" seems straightforward. We have a bit map telling us that this is the highest MCS and NSS supported for this BW. So what is the next text trying to say? "...and for all MCS that are higher than the indicated MCS up to but not including the next MCS in the set for this bandwidth"? Each Tx MCS NSS Descriptor indicates the value of the highest supported NSS for the indicated MCS for a specific bandwidth of operation How can we have an MCS that is higher but not including the next above the MCS to this one that is indicated as the highest? Sorry does not make any sense - is this the highest MCS or not? Either delete the second part of the text or dscribe better what you are trying to convey.	Either delete the second part of the cited text or describe better what you are trying to convey.			2017/1/9 9:42
5533	Graham Smith	225	1 9.4.2.218.4	1	88	T	Y	1.88 9.4.2.218.4	"MCS values that are lower than the lowest specified MCS within a set of Tx MCS NSS Descriptor fields implicitly support transmission of PPDUs using the highest NSS value indicated in the Highest NSS Supported subfield." Confused by the use of "set of" Tx MCS NSS Descriptor fields. A set would indicate all, up to 5, of the sub fields. So do we look through all the fields (up to five I guess), find the lowest MCS, and assume that for all BW MCSs below this use the highest NSS? This seems pretty confusing and I don't understand if this is really practical. Do we think that devices will support different NSSs for a set BW as the MCS changes? Surely we want the device to simply indicate for each BW, the max NSS and MCS and leave it at that?	Delete cited text or explain better what is intended.			2017/1/9 9:42
5534	Graham Smith	225	1 9.4.2.218.4	6	88	T	Y	6.88 9.4.2.218.4	"Each Rx MCS NSS Descriptor indicates the value of the highest supported NSS for the indicated MCS for a specific bandwidth of operation" seems straightforward. We have a bit map telling us that this is the highest MCS and NSS supported for this BW. So what is the next text trying to say? "...and for all MCS that are higher than the indicated MCS up to but not including the next MCS in the set for this bandwidth"? Each Rx MCS NSS Descriptor indicates the value of the highest supported NSS for the indicated MCS for a specific bandwidth of operation How can we have an MCS that is higher but not including the next above the MCS to this one that is indicated as the highest? Sorry does not make any sense - is this the highest MCS or not? Either delete the second part of the text or dscribe better what you are trying to convey.	Either delete the second part of the cited text or describe better what you are trying to convey.			2017/1/9 9:42

5535 Graham Smith	225	1 9.4.2.218.4	8	88	T	Y	8.88 9.4.2.218.4	"MCS values that are lower than the lowest specified MCS within a set of Rx MCS NSS Descriptor fields implicitly support transmission of PPDUs using the highest NSS value indicated in the Highest NSS Supported subfield." Confused by the use of "set of" Rx MCS NSS Descriptor fields. A set would indicate all, up to 5, of the sub fields. So do we look through all the fields (up to five I guess), find the lowest MCS, and assume that for all BW MCSs below this use the highest NSS? This seems pretty confusing and I don't understand if this is really practical. Do we think that devices will support different NSSs for a set BW as the MCS changes? Surely we want the device to simply indicate for each BW, the max NSS and MCS and leave it at that?	Delete cited text or explain better what is intended.		2017/1/9 9:42
5536 Graham Smith	225	1 9.4.2.218.4	27	88	T	Y	27.88 9.4.2.218.4	"The MCS subfield of the Tx MCS NSS Descriptor and Rx MCS NSS Descriptor subfields indicates an MCS value encoded as an unsigned integer." Why be different than the Table 9-262ab? MCS0-7 are mandatory? Just use 3 bits and be consistent.	Change cited text to "The MCS subfield of the Tx MCS NSS Descriptor and Rx MCS NSS Descriptor subfields indicates an MCS value encoded as per Table 9-262ab". Also change Fig 9-589cn accordingly.		2017/1/9 9:42
5537 Graham Smith	225	1 9.4.2.218.4	37	88	T	Y	37.88 9.4.2.218.4	Why do we need this final 'last' bit? If the bit map works, it is clear which is the last one. Get rid of this and simply have 2 reserved bits (MCS should be 3 bits)	Delete text from P88 Lines 37 to 40. Change Fig 9-589cn such that MCS is 3 bits and Last MCS NSS is replaced with "Reserved" (2 bits)		2017/1/9 9:42
5538 Graham Smith	225	1 9.4.2.218.5	21	89	T	Y	21.89 9.4.2.218.5	"PPE threshold values appear in increasing NSS value and increasing RU index value order, where lower numbered PPE Thresholds Info field bits contain PPE threshold values corresponding to lower numbered NSS values and within a set of PPE Threshold subfields corresponding to a single value of NSS, lower numbered PPE Thresholds Info field bits contain PPE threshold values corresponding to lower numbered RU index values" Starts off pretty clear but then proceeds to confuse. Dont think the rest is actually making ot any clearer, suggest it is kept simple. End sentence at the first comma and delete from there.	At the first comma end sentence and delete from there. "PPE threshold values appear in increasing NSS value and increasing RU index value order."		2017/1/9 9:42
5539 Graham Smith	225	1 3.4	18	7	T	Y	18.07 3.4	I think "RU" should be added here. It is not defined until almost at the end of the draft but is referred to in many places prior to that. Also maybe consider including it in 3.2.	Add RU in 3.4 and possibly in 3.2		2017/1/9 9:42
5540 Graham Smith	225	1 9.4.2.218.5	60	88	T	Y	60.88 9.4.2.218.5	"are included in the PPE Thresholds Info field." Should be "subfield"	Change 'field' to 'subfield'		2017/1/9 9:42
5541 Graham Smith	225	1 9.4.2.218.5	59	88	T	Y	59.88 9.4.2.218.5	"The NSS M1 subfield contains an unsigned integer that is equal to the number of NSS values minus one for which PPE threshold values are included in the PPE Thresholds Info field". All well and good but we have no idea what NSSs are actually referred to. If we simply have, say 4 NSSs how do I know if the NSS is 1-4, or 3-7? I don't get it, can you please clarify this as I can't see this working.	Clarify as per comment. Can't propopse a solution as I can't tell how this is supposed to work. Is it supposed to be the number starting at MCS0, for example?		2017/1/9 9:42
5542 Graham Smith	225	1 9.4.2.218.5	63	88	E	Y	63.88 9.4.2.218.5	"according to their RU Allocation Index values". Add reference to Table 9-262ae	after RU Allocation Index values add "(see Table 9-262ae)"		2017/1/9 9:42

5543	Graham Smith	225	1 9.4.2.218.5	21	89	T	Y	21.89 9.4.2.218.5	"PPE threshold values appear in increasing NSS value and increasing RU index value order". Why are these called PPE Threshold values when they are Constellation indexes? I can't see the connection. The PPE Threshold, I think, is 8 or 16us, but that is not what appears in this field. I think its OK to call it the PPE Threshold Info field, but the info, although used to get the PPE Threshold, is not the actual value. I think maybe use "PPET16 and PPET8 subfields"?	Replace cited text with "The PPEt16 and PPET8 Constellation indexes appear in increasing NSS value and increasing RU index value order."		2017/1/9 9:42
5544	Graham Smith	225	1 9.4.2.218.5	1	90	T	Y	1.90 9.4.2.218.5	"The PPET8 for NSSn for RUb subfield and PPET16 for NSSn for RUb subfield values are combined to determine the Maximum PE value for HE PPDUs that are transmitted to the STA sending this field and using NSS = n and an RU allocation corresponding to RU Allocation Index b, for each value of NSS and RU specified by the field." This is describing what a STA does with the Constellation indexes not anything to do with describing the contents of the field. This behavior belongs elsewhere, presumeablky in 28.3.13? HAving said that, the sentence itself has problems: how does one combine two constellation indexes?, and how does the second half of the sentence present any further information than the first half (it seems to repeat the same but differently in an attempt to confuse the reader)?	Replace cited text with "The PPET8 for NSSn for RUb subfield and PPET16 for NSSn for RUb subfield values are examined to determine the Maximum PE value for HE PPDUs that are transmitted to the STA sending this field (see XXX)" Then the rest of this description should be moved to another section maybe 28.3.13.		2017/1/9 9:42
5545	Graham Smith	225	1 9.4.2.218.5	1	90	T	Y	1.90 9.4.2.218.5	Table 9-262ad is a mess. What do the rows mean, do both columns need to be satisfied or either? I assume both. What is the "result of a comparison of index x" mean? I have no idea what the rule is. It looks as though we are comparing the constellation index of a PPDU to the PPET8 and PPET16 constellation indexes but there has been no indication of how the indexes are chosen. To be honest there has to be a better way of doing this. This entire section needs re-writing and possibly re-thinking.	Rewrite L1 - 35 and clarify what it is trying to convey. Also this text should not be here. This section should be simply the description of the field.		2017/1/9 9:42
5546	Graham Smith	225	1 9.4.2.218.5	42	88	T	Y	42.88 9.4.2.218.5	PPE Thresholds field. This has proved a struggle to understand and to try to see why it seems to be so convoluted. One suggestion that may help might be to add a sentence at the beginnning that explained the use of this field.	Add at beginning such as "The PPE Thresholds field is used to determine the maximum packet extension value (see 28.3.12) for an HE PPDU of a particular RU allocation size and NSS value."		2017/1/9 9:42
5547	Graham Smith	225	1 9.4.2.218.5	21	89	T	Y	21.89 9.4.2.218.5	"Each PPET8 for NSSn for RUb subfield and PPET16 for NSSn for RUb subfield contains an integer that corresponds to a constellation index value related to the transmission constellation of an HE PPDU as defined in Table 9-262ac (Constellation index)." There is no indication of what is the criteria for entering the constellation index. Is the minimum constellation for 8 or 16us? it is the maximum? Should the 16 be higher or equal to the 8? What is it? Need to add some words so that it is clear as to how the index corresponds to the 8 or 16 us threshold.	Add some words so that it is clear as to how the index corresponds to the 8 or 16 us threshold.		2017/1/9 9:42
5548	Graham Smith	225	1 9.4.2.218.5	38	89	E	Y	38.89 9.4.2.218.5	" Table 9-262ac (Constellation index)." Delete second full stop.	Delete second full stop		2017/1/9 9:42

5549	Graham Smith	225	1 9.4.2.218.5	14	90	T	Y	14.90 9.4.2.218.5	Table 9-262ad. Can't help but feel this would be better replaced by pseudo code or simple equations.	Replace Table with something along the lines of: "For NSSn and RUb, and Constellation index of HE PPDU, x IF AND (x >= PPET8, OR(x< PPET16, PPET16 = 0)) THEN Maximum PE value = 8 us IF AND (OR(x >= PPET8, PPET8 = 0),x>= PPET16)) THEN Maximum PE value = 16 us ELSE Maximum PE value = 0 us"		2017/1/9 9:42
5550	Graham Smith	225	1 9.4.2.218.5	42	88	T	Y	42.88 9.4.2.218.5	I have made a lot of comments on this section and this is my final one. Can it be explained why we need this when we have a simple Default PE Duration field in the HE Operation Parameters field? Has it been shown that specifying a PE threshold is needed and then effectively setting a PE for every NSS and RU and BW actually is better or more efficient that this default setting? Could a simple, expanded Default PE duration have been much simpler?	Consider if a set of default values could have achieved this. What is the overriding factor for this NSS, BW or RU? I don't know enough about the need for the PE, but is there no way simple 'max' combinations of these 3 could be used for 0, 4, 8, 12 and 16us, similar to the "Basic HE-MCS and NSS Set field format, for example?		2017/1/9 9:42
5551	Graham Smith	225	1 9.4.2.219	39	91	T	Y	39.91 9.4.2.219	"The BSS Color field is an unsigned integer whose value is the BSS color of the BSS corresponding to the AP which transmitted this element, except that a value of 0 in this field indicates that there is no BSS color for this BSS." Thie information in this sentence appears to be repeated in the next para. Suggest this is deleted and the second para edited to include the 'no color' rule.	Dlete cited text. Then edit next para to read as follows as follows: "The BSS Color field is an unsigned integer whose value is the BSS Color of the BSS corresponding to the AP, IBSS STA, mesh STA or TDLS STA that transmitted this element, except that a value of 0 in this field is used if there is no BSS color for this BSS, or one or more intended recipient STAs of an HE PPDU is not a member of a transmitting STA's BSS."		2017/1/9 9:42
5552	Graham Smith	225	1 9.4.2.219	49	91	T	Y	49.91 9.4.2.219	"The Default PE Duration subfield indicates the PE duration in units of 4 +++s, for an HE trigger-based PPDU that is solicited with UL MU Response Scheduling in the A-Control subfield." How does this tie up wit the PETT I don't see how it is used, make a reference to where and how it is used.	Add a reference to where and how this default is used.		2017/1/9 9:42
5553	Graham Smith	225	1 9.4.2.219	60	91	T	Y	60.91 9.4.2.219	"The HE Duration Based RTS Threshold field enables..." Should be 'subfield'.	Change "field" to "subfield"		2017/1/9 9:42
5554	Graham Smith	225	1 9.4.2.219	55	91	T	Y	55.91 9.4.2.219	"...AP requires the non-AP HE STAs..." Associated STAs I assume.	Cited text to read "AP requires non-AP HE STAs that are associated with it..."		2017/1/9 9:42
5555	Graham Smith	225	1 9.4.2.219	60	91	T	Y	60.91 9.4.2.219	"The HE Duration Based RTS Threshold field enables an HE AP to manage..." This corresponds to dot11DurationRTSThreshold of which there is no mention in this paragraph.	Add reference to dot11DurationRTSThreshold		2017/1/9 9:42

5556	Graham Smith	225	1 9.4.2.219	60	91	T	Y	60.91 9.4.2.219	dot11DurationRTSThreshold has been introduced as an alternative to the octet based dot11RTSThreshold. I note that "HE" is missing so one implies that the TG felt that duration was a better parameter than octets and this implies it could be for all STAs, not just HE ones. Was this the intention? If so "HE duration based RTS is not correct and it is solely "duration based RTS" and so the question arises, "should this be available for all STAs?" The original RTS Threshold is on a per station basis, I don't think it is advertized or specified by a STA or AP (I need to check that). So in this case is this HE Duration based RTS field something only an AP sends to control its BSS or is it something a STA also sends. Can it be different for a STA and its AP, the opeing sentence seems to indicate it is for AP control? If so, where are the rules or informationa as to ewhere to set it? Needs references. I think this may	Add reference to text on how to set the value - is it only for an AP to set? Can a STA set different values to its AP, what happens if it does?		2017/1/9 9:42
5557	Graham Smith	225	1 10.3.1	50	113	T	Y	51.13 10.3.1	"When HE duration-based RTS is enabled, the use of the RTS/CTS mechanism is under control of dot11DurationRTSThreshold." I note that 'HE' is missing from the dot11DurationRTSThreshold. So presumeably any STA could use the duration based RTS threshold, but only an HE STA will advertize it. Is that the real intention? In looking at the HE duration based RTS threshold subfield in the HE Operation Parameter field it appears as though it is for an AP to make its STA use duration RTS. Is this intended only for HE STAs?	Clarify if only HE STAs or not.		2017/1/9 9:42
5558	Graham Smith	225	1 10.3.2.4	47	114	T	Y	48.14 10.3.2.4	"If the STA is not an HE STA and When the received frame's RA is equal to the STA's own MAC address, the STA shall not update its NAV. If the STA is an HE STA and the STA is solicited for an immediate response by the PPDU carrying the received frame, the STA shall not update its NAV. If the STA is an HE STA, the STA is a TXOP holder, and the frame is solicited by the STA, then the STA shall not update its NAV." The original text simply said if the STA is the recipient (RA = STA) then do not update NAV. I think that in both of these examples that an HE STA does not update NAV this is still true? Does this now create conditions where the HE STA, receiving a packet now does update the NAV? I suspect it would be beter to leave this alone and not make the indicated changes.	Remoive the changes from cited text.		2017/1/9 9:42
5559	Graham Smith	225	1 10.3.2.4	14	115	T	Y	15.15 10.3.2.4	"The exact time of updating the NAV is described as follows." Do we need this? It does not add anything except to make the reader think tghat there is some very exact measurement taking place. Delete.	Delete cited text.		2017/1/9 9:42

5560	Graham Smith	225	1 10.3.2.4a	48	115	T	Y	49.15 10.3.2.4a	"In dense environments, managing RTS usage by an AP can help the overall interference situation since the AP may have better view of the network situation. To improve spectrum utilization, RTS usage should be duration-based, rather than length-based." This is a very general comment. There is no explianation of why duration based RTS should be better than packet length. It may be true but this would not convince anyone. PAcket length RTS was seldom used, if at all, so what does duration based bring and why would it be used?	Write a better reasoning as to why duration based RTS is either superior or will improve matters.		2017/1/9 9:42
5561	Graham Smith	225	1 10.3.2.8a	7	116	T	Y	8.16 10.3.2.8a	Figure 10-9a, Would STA1 and STA2 reply CTSs together? If so the AP may well not be able to hear them as they will interfere with each other. Same with the Acks. True CTS responds at SIFS but what happens in this case, is it such that the AP does not care? Should really add some text to explain the figure.	Add text to explain that the CTS and Ack responses are ignored, if that is the case.		2017/1/9 9:42
5562	Graham Smith	225	1 10.3.2.8a	33	116	T	Y	34.16 10.3.2.8a	Figure 10-9b. As in Fig 10-9a the CTS and ACKs coincide ans hence may not be heard by the AP. Does this matter or is it simply ignoresd by the AP which is only interested in the Trigger frame and the Multi-STA Block Ack. If tyhis is so needs some explanatory words	Add text to explain that the CTS and Ack responses are ignored, if that is the case.		2017/1/9 9:42
5563	Graham Smith	225	1 10.3.2.8a.2	64	116	T	Y	65.16 10.3.2.8a.2	"If a PHY-RXSTART.indication primitive does not occur during the CTSTime-out interval, the STA shall conclude that the transmission of the MU-RTS frame has failed, and this STA shall invoke its backoff procedure upon expiration of the CTSTimeout interval." But the figures 10-9a and 9b show the CTS responses clashing and the CTS will not be received and the STA will retry with the same result. Will this ever work because the CTSs could clash forever.	Explain how the CTS s can be received and the MU-RTS not retried ad infinitum.		2017/1/9 9:42
5564	Graham Smith	225	1 10.3.2.10.3	7	120	E	Y	8.20 10.3.2.10.3	Space required before "Specifically"	Add space before "Specifically"		2017/1/9 9:42
5565	Graham Smith	225	1 10.3.2.10.3	8	120	E	Y	9.20 10.3.2.10.3	We need some articles inserted here.	to read "...acknowledgement in the HE MU PPDU in response to an (A-)MPDU sent in HE trigger-based PPDU,..."		2017/1/9 9:42
5566	Graham Smith	225	1 10.3.2.10.3	58	120	E	Y	59.20 10.3.2.10.3	"Impilcit BAR". Spelling	"Implicit"		2017/1/9 9:42
5567	Graham Smith	225	1 10.3.2.10.3	55	121	T	Y	56.21 10.3.2.10.3	"A STA may use a BlockAckReq frame to solicit the acknowledgment frame(s), to whom the STA sent the QoS Data frame(s) with Ack Policy subfield equal to Block Ack or from whom the STA did not receive the immediate acknowledgement frames after sending QoS Data frame(s) in a HE trigger-based PPDU with Ack Policy subfield equal to Normal Ack or Implicit BAR" Does not read right.	To read "When a STA sends a QoS Data frame(s) with Ack Policy subfield equal to Block Ack , or when the STA did not receive the immediate acknowledgement frames after sending QoS Data frame(s) in a HE trigger-based PPDU with Ack Policy subfield equal to Normal Ack or Impliit BAR, a STA may use a BlockAckReq frame to solicit the acknowledgment frame(s)."		2017/1/9 9:42

5568	Graham Smith	225	1 10.3.5	63	122	T	Y	64.22 10.3.5	"When HE duration-based RTS is disabled, a STA using the DCF shall use an RTS/CTS exchange for ind\-ividually addressed frames when the length of the PSDU is greater than the length threshold..." How does a STA know that the HE Duration-based RTS is disabled unless it is an HE STA? As written this is for any STA. Is this intended to be for any STA or just HE STAs? If RTSTHreshold is set then use that, if DurationRTSThreshold is set, then use that. Is there a problem if both set? Can set a rule for the HE STA to only obey Duration RTSThreshold. I think this needs a bit more thought or to be made clear.	Clarify if only for HE STAs or all STAs. How does a legacy STA know if duration based RTS in use? Does it matter if both or either set?	2017/1/9 9:42
5569	Graham Smith	225	1 10.12	6	128	E	Y	7.28 10.12	Delete full stop after "frame"	Delete full stop after "frame"	2017/1/9 9:42
5570	Graham Smith	225	1 10.12	8	128	E	Y	9.28 10.12	Delete comma after "frame"	Delete comma after "frame"	2017/1/9 9:42
5571	Graham Smith	225	1 10.13.1	21	128	T	Y	22.28 10.13.1	"When an A-MPDU contains multiple QoS Control fields, bits 4 shall be identical across all MPDUs that contain the QoS Control fields and bits 8-15 of these QoS Control fields shall be identical across all MPDUs with equal value of the TID subfield." This applies to all STAs so we need to check that we have not changed the original rule which is bits 4, 8-15 are the same. The new rule says that 8-15 is only the same for same TID so now can we have different TIDs within the same A-MPDU when the original rule says we can't? Why is this done and is it valid. I would like to see an explanation as htis appears to change a rule.	Delete changes	2017/1/9 9:42
5572	Graham Smith	225	1 11.2.2.	56	141	E	Y	57.41 11.2.2.	11.2.2 is incorrect should be 11.2.3	Renumber to 11.2.3	2017/1/9 9:42
5573	Graham Smith	225	1 11.2.2.	56	141	E	Y	57.41 11.2.2.	11.2.2.6 is incorrrect should be 11.2.3.6	Renumber to 11.2.3.6	2017/1/9 9:42
5574	Graham Smith	225	1 11.2.2.8	42	142	E	Y	43.42 11.2.2.8	11.2.2.8 should be 11.2.3.8	Renumber to 11.2.3.8	2017/1/9 9:42
5575	Graham Smith	225	1 27.9.2.1	190	18	T	Y	190.18 27.9.2.1	There is no definition of OBSS_PD.	Add "OBSS_PD is the CCA sensitivity when a valid signal is received from an OBSS."	2017/1/9 9:42
5576	Graham Smith	225	1 27.9.2.1	190	18	T	Y	190.18 27.9.2.1	In 802.11-2016 there is no reference at all to "PD". The term OBSS_PD is unfortunate because it conveys the concept of 'power detect' when it is truly CS/CCA. A more correct term might be "OBSS_CCA".	Replace "OBSS_PD" with "OBSS_CCA"	2017/1/9 9:42
5577	Guido Hiertz	225	1 C.3	424	46	E	Y	424.46 C.3	C.2 (Guidelines for IEEE 802.11 MIB authors/editors) in 802.11-2016 explains "Do not use symbols such as <greek-mu> in units, instead spell out the units fully, i.e., 'microseconds.'" Consequently, the use of "us" is wrong.	Replace "us" with "microseconds"	2017/1/9 9:42
5578	Guido Hiertz	225	1 28.5	373	26	E	Y	373.26 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5579	Guido Hiertz	225	1 28.5	374	4	E	Y	374.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5580	Guido Hiertz	225	1 28.5	374	39	E	Y	374.39 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5581	Guido Hiertz	225	1 28.5	375	4	E	Y	375.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5582	Guido Hiertz	225	1 28.5	375	32	E	Y	375.32 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5583	Guido Hiertz	225	1 28.5	376	4	E	Y	376.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5584	Guido Hiertz	225	1 28.5	376	32	E	Y	376.32 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5585	Guido Hiertz	225	1 28.5	377	4	E	Y	377.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5586	Guido Hiertz	225	1 28.5	377	35	E	Y	377.35 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╪ bit ╪ pico ╪ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42

5587	Guido Hiertz	225	1 28.5	378	4	E	Y	378.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5588	Guido Hiertz	225	1 28.5	378	39	E	Y	378.39 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5589	Guido Hiertz	225	1 28.5	379	4	E	Y	379.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5590	Guido Hiertz	225	1 28.5	379	32	E	Y	379.32 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5591	Guido Hiertz	225	1 28.5	380	4	E	Y	380.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5592	Guido Hiertz	225	1 28.5	380	32	E	Y	380.32 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5593	Guido Hiertz	225	1 28.5	381	4	E	Y	381.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5594	Guido Hiertz	225	1 28.5	381	35	E	Y	381.35 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5595	Guido Hiertz	225	1 28.5	382	4	E	Y	382.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5596	Guido Hiertz	225	1 28.5	382	39	E	Y	382.39 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5597	Guido Hiertz	225	1 4.3.14a	9	42	T	Y	9.42 4.3.14a	Various submission show that the current 802.11ax draft is far from achieving the "4 ╬" performance improvement goal. Submission 11-15/1359 provides a simple mechanism to enhance performance in dense deployments.	Implement the changes proposed in 11-15/1013 and add "Mandatory support for QMF"	2017/1/9 9:42
5598	Guido Hiertz	225	1 4.3.14a	9	42	T	Y	9.42 4.3.14a	The 802.11ax draft adds various new features that help marketing new silicon designs. However, the draft hardly addresses any issues of dense network deployments. Submission 11-15/1015 outlines a simple mechanism to reduce traffic overhead.	Add "Mandatory support for Proxy ARP"	2017/1/9 9:42
5599	Guido Hiertz	225	1 9.4.2.218.2	78	14	E	Y	78.14 9.4.2.218.2	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5600	Guido Hiertz	225	1 9.4.2.218.2	78	15	E	Y	78.15 9.4.2.218.2	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5601	Guido Hiertz	225	1 9.4.2.218.3	83	17	E	Y	83.17 9.4.2.218.3	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5602	Guido Hiertz	225	1 9.4.2.218.3	83	20	E	Y	83.20 9.4.2.218.3	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5603	Guido Hiertz	225	1 9.4.2.218.3	83	24	E	Y	83.24 9.4.2.218.3	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5604	Guido Hiertz	225	1 9.4.2.218.3	83	29	E	Y	83.29 9.4.2.218.3	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5605	Guido Hiertz	225	1 27.6.4	179	23	E	Y	179.23 27.6.4	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5606	Guido Hiertz	225	1 27.6.4	179	24	E	Y	179.24 27.6.4	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5607	Guido Hiertz	225	1 27.6.4	179	26	E	Y	179.26 27.6.4	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5608	Guido Hiertz	225	1 28.2.2	223	27	E	Y	223.27 28.2.2	Microsecond must be abbreviated as "┴s."	Replace "504 us" with "504 ┴s"	2017/1/9 9:42
5609	Guido Hiertz	225	1 28.3.16	344	55	E	Y	344.55 28.3.16	Microsecond must be abbreviated as "┴s."	Replace "us" with "┴s"	2017/1/9 9:42
5610	Guido Hiertz	225	1 C.3	424	33	E	Y	424.33 C.3	C.2 (Guidelines for IEEE 802.11 MIB authors/editors) in 802.11-2016 explains "Do not use symbols such as <greek-mu> in units, instead spell out the units fully, i.e., 'microseconds.'" Consequently, the use of "us" is wrong.	Replace "us" with "microseconds"	2017/1/9 9:42
5611	Guido Hiertz	225	1 28.5	383	4	E	Y	383.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5612	Guido Hiertz	225	1 28.5	383	32	E	Y	383.32 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5613	Guido Hiertz	225	1 28.5	384	4	E	Y	384.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5614	Guido Hiertz	225	1 28.5	384	32	E	Y	384.32 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5615	Guido Hiertz	225	1 28.5	385	4	E	Y	385.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5616	Guido Hiertz	225	1 28.5	386	8	E	Y	386.08 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5617	Guido Hiertz	225	1 28.5	387	5	E	Y	387.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42

5618	Guido Hiertz	225	1 28.5	388	5	E	Y	388.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5619	Guido Hiertz	225	1 28.5	388	38	E	Y	388.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5620	Guido Hiertz	225	1 28.5	389	5	E	Y	389.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5621	Guido Hiertz	225	1 28.5	389	38	E	Y	389.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5622	Guido Hiertz	225	1 28.5	390	5	E	Y	390.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5623	Guido Hiertz	225	1 28.5	390	38	E	Y	390.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5624	Guido Hiertz	225	1 28.5	391	8	E	Y	391.08 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5625	Guido Hiertz	225	1 28.5	392	5	E	Y	392.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5626	Guido Hiertz	225	1 28.5	393	5	E	Y	393.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5627	Guido Hiertz	225	1 28.5	393	38	E	Y	393.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5628	Guido Hiertz	225	1 28.5	394	5	E	Y	394.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5629	Guido Hiertz	225	1 28.5	394	38	E	Y	394.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5630	Guido Hiertz	225	1 28.5	395	5	E	Y	395.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5631	Guido Hiertz	225	1 28.5	395	38	E	Y	395.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5632	Guido Hiertz	225	1 28.5	396	8	E	Y	396.08 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5633	Guido Hiertz	225	1 28.5	397	5	E	Y	397.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5634	Guido Hiertz	225	1 28.5	398	5	E	Y	398.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5635	Guido Hiertz	225	1 28.5	398	38	E	Y	398.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5636	Guido Hiertz	225	1 28.5	399	5	E	Y	399.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5637	Guido Hiertz	225	1 28.5	399	38	E	Y	399.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5638	Guido Hiertz	225	1 28.5	400	5	E	Y	400.05 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5639	Guido Hiertz	225	1 28.5	400	38	E	Y	400.38 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5640	Guido Hiertz	225	1 28.5	401	7	E	Y	401.07 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5641	Guido Hiertz	225	1 28.5	402	4	E	Y	402.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5642	Guido Hiertz	225	1 28.5	403	4	E	Y	403.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5643	Guido Hiertz	225	1 28.5	403	35	E	Y	403.35 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5644	Guido Hiertz	225	1 28.5	404	4	E	Y	404.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5645	Guido Hiertz	225	1 28.5	404	35	E	Y	404.35 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5646	Guido Hiertz	225	1 28.5	405	4	E	Y	405.04 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5647	Guido Hiertz	225	1 28.5	405	35	E	Y	405.35 28.5	The use of "Mbps" is wrong. After all this would mean Mega ╬ bit ╬ pico ╬ second.	Replace "Mbps" with "Mb/s"	2017/1/9 9:42
5648	Guoqing Li	225	1 27.3.4.2	155	56	E	N	155.56 27.3.4.2	"that carries one or more dynamic fragments...", for level 1 dynamic fragmentation, the MPDU or S-MPDU can contain up to one frag of each MSDU or A-MSDU. This sentence can cause confusion that level 1 fraagmentation contains more fragments from one MSDU or A-MSDU.	remove "or more dynamic fragments"	2017/1/9 9:42

5649	Guoqing Li	225	1 27.3.4.3	156	4	E	N	156.04 27.3.4.3	"that carries one or more dynamic fragments...", for level 2 dynamic fragmentation, the MPDU or S-MPDU can contain up to one frag of each MSDU or A-MSDU. This sentence can cause confusion that level 1 fraagmentation contains more fragments from one MSDU or A-MSDU.	remove "or more dynamic fragments"	2017/1/9 9:42
5650	Guoqing Li	225	1 27.4.1	157	57	T	N	157.57 27.4.1	The wording in this paragraph is not accurate.For ACK=1, TID=15, the M-BA is acknoledging a managaeent frame not a data indicated by the TID.	remove "identified by the value of the TID"	2017/1/9 9:42
5651	Guoqing Li	225	1 27.4.2	158	37	T	N	158.37 27.4.2	"to the TID value of that MPDU" , for acknolwdging action frame, this sentence is not accurate	Clarify	2017/1/9 9:42
5652	Guoqing Li	225	1 27.4.2	159	16	T	N	159.16 27.4.2	This sentence misses the case of the acknoledgement of the action frame	Clarify	2017/1/9 9:42
5653	Guoqing Li	225	1 27.4.3	159		T	N	159.00 27.4.3	The descripton is confusing. For example, if the buffer size is 31, it meets conditions of both paragraphs where one says the bigmap length shall be 64 and the other says it could be 64 or 256.	Change the second paragraph to "if....is within [65, 256]. ...	2017/1/9 9:42
5654	Guoqing Li	225	1 27.4.3	159	36	T	N	159.36 27.4.3	if buffer size is 128, can the recipient dynamcally changing the bitmap length between 64 and 256? The sentence in this paragraph is not clear on this.	Clarify	2017/1/9 9:42
5655	Guoqing Li	225	1 27.4.3	159		T	N	159.00 27.4.3	The descripton is confusing. For example, if the buffer size is 31, it meets conditions of the hree paragraphs, which one can the STA uses?	change the second paragraph to "if....is within [65,1286]. ...", and change third paragraph to "...within [129-256]..."	2017/1/9 9:42
5656	Guoqing Li	225	1 27.7.1	180		T	N	180.00 27.7.1	The implementation of a STA supporting the role of scheduling TWT is different from the role of scheduled STA. The capability indication should separate these two.	Separate these two capabilities, one for scheduling STA and one for scheduled STA	2017/1/9 9:42
5657	Guoqing Li	225	1 27.7.2	180	44	T	N	180.44 27.7.2	"..otherwise it is an iimpclit TWT", this sentence is misleading in that it reads like trigger-enabled and implicit are two equavalent alternatives. However, even if a TWT is trigger-enabled, it is still an implicit TWT since the implcit subfield shall set to 1.	change to "..otherwise it is not a trigger-enabled TWT"	2017/1/9 9:42
5658	Guoqing Li	225	1 27.7.2	182	6	T	N	182.06 27.7.2	Why the condition includes the exsistence of an random RU?	remove "and does not allcoate any random RU during an unannounced TWT"	2017/1/9 9:42
5659	Guoqing Li	225	1 27.7.2	182	6	T	N	182.06 27.7.2	If cascade indication is 0 allows STA to go to doze mode, then the cascade indication is similar to an EOSP indication. This needs to be defined in the trigger frame format and other parts that explain what this indication is. It is more than an indication that there will not be trigger anymore. This is also related to whether the AP is allowed to send DL traffic or not.	remove case 1) from the early TWT SP termination event list, or define more clearly that this indication is similar to EOSP bit.	2017/1/9 9:42
5660	Guoqing Li	225	1 27.7.2	182		T	N	182.00 27.7.2	case 3 and 2 are more related to whether the frame is soliciting an acknoledgement or not. And even in case 2) the STA recevies a frame with EOSP bit set to 1 which is the condition in 3).	Clarify the difference between case 3) and 2)	2017/1/9 9:42
5661	Guoqing Li	225	1 27.7.2	182	20	T	N	182.20 27.7.2	The QoS Info field in REVmc is difined differently for AP and STA, and for AP the format of the QoS info field does not contain "more data ACK" field. This is inconsistent with this paragraph which assumes both requesting and responding STA can use this field to indicate the support of more data ACK.	Modify the QoS info field to include a field called "More Data ACK" field for AP.	2017/1/9 9:42

5662 Guoqing Li	225	1 27.7.3.1	182	39	T	N	182.39 27.7.3.1	This sentence implies that a STA cannot use broadcast TWT if it has indivitual TWT. However, I don't think this is reasonable. A STA may use individual TWT to transfer periodic regular data which is predicable and use broadcast TWT for any other data that is less predictable and bursty.	remove this sentence	2017/1/9 9:42
5663 Guoqing Li	225	1 27.7.3.2	184	15	T	N	184.15 27.7.3.2	The sentence here is confusing. The trigger field is to indicate there the TWT is trigger enabled or not. It does not indicate whether it is implicit or not.	change to "othersie, it shall set the "trigger field to 0 to indicate a non-trigger-enabled TWT"	2017/1/9 9:42
5664 Guoqing Li	225	1 27.7.3.2	185	18	E	N	185.18 27.7.3.2	It is better to spell out AM as active mode	spell out "AM"	2017/1/9 9:42
5665 Guoqing Li	225	1 27.7.3.2	185	12	T	N	185.12 27.7.3.2	This paragraph seems to confict with the previous paragraph which says the STA doesn't need to follow AP operation during CP while the previous paraph says the STA shall follow the AP operation during CP. The condition for the two cases are not clearly specified.	Clarify	2017/1/9 9:42
5666 Guoqing Li	225	1 27.7.3.3	185	47	E	N	185.47 27.7.3.3	Regarding the first "TWT SP termination event" in this line, the termitogy in other part of this section is "early TWT SP termination event", need to be consistent to avoid confusion.	change the first "TWT SP termination event" in this line to "Early TWT SP termination event",	2017/1/9 9:42
5667 Guoqing Li	225	1 27.7.3.3	185	47	E	N	185.47 27.7.3.3	Regarding the second "TWT SP termination event" in this line, it is referring to the end of the this SP. To diferentiate it from the early SP termination event, it is better to use another terminology such as "normal TWT SP termination event".	changethe the second "TWT SP termination event" in this line to "normal TWT SP termination event" or define TWT SP Termination event such that it includes early terination event and the even that the adjustedMinimumTWTWakedu dration has passed.	2017/1/9 9:42
5668 Guoqing Li	225	1 27.4.4.2	160	57	T	N	160.57 27.4.4.2	Why the A-MPDU in this case cannot contain Action frame? What about the case the A-MPDU is VHT single MPDU in A-MPDU?	Remove this constraint	2017/1/9 9:42
5669 Guoqing Li	225	1 27.7.3.3	185	62	E	N	185.62 27.7.3.3	This pagraph should be a third bulitin following the previous two bullitins	edit accordingly	2017/1/9 9:42
5670 Guoqing Li	225	1 27.7.3.3	186		T	N	186.00 27.7.3.3	As I understand, a STA need to send PS-Poll or APSD trigger during a TWT SP to fetch DL BU if the TWT SP is announced. The STA does not send PS-Poll or APSD trigger if the SP is unannounced. This paragraph only applies to announced SP which need to be clarifeid	Line 21, change to "...frame within that TWT SP if the TWT SP is announced"	2017/1/9 9:42
5671 Guoqing Li	225	1 27.7.3.4	186	46	T	N	186.46 27.7.3.4	Not all TWT element paramters are reserved. For example, the broadcast ID. Please see page 72, line 35047 which says how to set broadcast ID when the command type is request for broadcast TWT.	Clarify so that it is consistent with section 9.2.2.200	2017/1/9 9:42
5672 Guoqing Li	225	1 27.7.3.4	186	58	T	N	186.58 27.7.3.4	Not all TWT element paramters are reserved. For example, the broadcast ID. Please see page 72, line 35047 which says how to set broadcast ID when the command type is request for broadcast TWT.	Clarify so that it is consistent with section 9.2.2.200	2017/1/9 9:42
5673 Guoqing Li	225	1 9.4.2.200	72	35	T	N	72.35 9.4.2.200	This paragraph says how to set Broadast ID for broadcast TWT. However, in secton 27.7.3.4, line 46 and 58, it indicates that broadcast ID is reserved.	clarify so that it is consistent with section 27.7.3.4	2017/1/9 9:42
5674 Guoqing Li	225	1 27.14.3.1	200	59	T	N	200.59 27.14.3.1	Can a non-AP STA still send data through EDCA in this TWT SP when the AP set its TIM bit to 0? It's better to clarify this point.	Clarify	2017/1/9 9:42
5675 Guoqing Li	225	1 27.14.3.1	200	63	T	N	200.63 27.14.3.1	in "if the STA was not served before...", what does "served" mean here? The AP send trigger to the STA? or the AP send the STA's DL BU to the STA?	Clarify	2017/1/9 9:42

5676	Guoqing Li	225	1 27.14.2	199	60	T	N	199.60 27.14.2	As I understand, TWT element does not contaiint "start time of the trigger frame", it contains start time of the TWT SP. And contains indication for trigger-enabled SP and indication for random access RU. As such, the sentence here is not accurate.		2017/1/9 9:42
5677	Guoqing Li	225	1 27.14.2	200	21	E	N	200.21 27.14.2	Missing an "and" between "has a value of 1 in the broadcast sufield" and "a value of 2..."	change to "has a vlaue of 1 in the broadcast subfield and a value of 2..."	2017/1/9 9:42
5678	Guoqing Li	225	1 27.8.2	189	8	E	N	189.08 27.8.2	This sentence is badly written	change to "after transmitting the acknowledgement frame for the frame containing the OMI A-Control..."	2017/1/9 9:42
5679	Guoqing Li	225	1 27.8.3	189	29	T	N	189.29 27.8.3	Why this sentence is a note. It should be another bullitin item followig the previous bullitin.	Make this sentence a bullitin item followintg the previous one.	2017/1/9 9:42
5680	Guoqing Li	225	1 27.9.1	190	12	T	N	190.12 27.9.1	What is SR PPDU? The HE PHY does not define such an PPDU format. Seems to me, SR PPDU is a PPDU that can be initaited simultaneously using the SR mechiasm defined here which is otherwise not possible using legacy sensing mechanism. If so, this needs to be clarified since there is such PHY PPDU format called SR PPDU.	Either define SR PPDU, or clarify using different terminology.	2017/1/9 9:42
5681	Guoqing Li	225	1 27.9.2.1	190	34	T	N	190.34 27.9.2.1	why spatial reuse cannot be applied to group addressed public action frame?		2017/1/9 9:42
5682	Guoqing Li	225	1 9.3.1.23.4	50	40	T	N	50.40 9.3.1.23.4	How to set Doppler field in MU-RTS is not specified	Specify how to set the Doppler field in MU-RTS	2017/1/9 9:42
5683	Guoqing Li	225	1 27.9.2.1	190	50	E	N	190.50 27.9.2.1	Heading format is incorrect	Correct the heading format	2017/1/9 9:42
5684	Guoqing Li	225	1 27.2.3	152	25	T	N	152.25 27.2.3	what does "updating its EDCA access" mean when UL MU is disabled? What happens to the counters in this case? Regenerale according to new EDCA parameters? Or count down to zero then start using the new EDCA parameters?	Clarify	2017/1/9 9:42
5685	Guoqing Li	225	1 27.4.4.2	160	58	T	N	160.58 27.4.4.2	Why DL MU PPDU soliciting SU resposne cannot contain action frame soliciting a response?	Clarify	2017/1/9 9:42
5686	Guoqing Li	225	1 27.2.1	150	13	T	N	150.13 27.2.1	What if STA sends an HE MU PPDU? It's not forbidden in the spec, and thereforethis condition is not accurate since this HE MU PPDU may come from its own BSS.	Clarify	2017/1/9 9:42
5687	Guoqing Li	225	1 4.2.14a	9	29	T	N	9.29 4.2.14a	The mandatory support on tone more than 242 do not apply to 20MHz only devices. Though obvious this needs to be clarified.	Clarify that the RU tone more than 242 are not mandatory for 20MHz only device.	2017/1/9 9:42
5688	Guoqing Li	225	1 27.9.2.2	192	1	E	N	192.01 27.9.2.2	"considering..." is not a complete sentence.	change to something like "please refer to section 3.1 for the definition of antenna connector".	2017/1/9 9:42
5689	Guoqing Li	225	1 27.9.2.2	192	3	T	N	192.03 27.9.2.2	SR mode is not defined. It is better to define the mode in the beginning of this section.	Define what exactly is SR mode. For example, " a mode that a STA operates in a PD level that is differnet from legacy PD threshold on OBSS PPDUs"	2017/1/9 9:42
5690	Guoqing Li	225	1 27.9.2.2	192	23	T	N	192.23 27.9.2.2	"the minimum OBSS_Pdlevel...", the wording of this sentence is confusing. Isnt that the min of this value is -82?	Clarify	2017/1/9 9:42
5691	Guoqing Li	225	1 27.9.2.2	191	62	T	N	191.62 27.9.2.2	If there is a default value for OBSS_Pdmin and max, does it mean the STA can alter these values to be different from the default values? Who set these values then? AP or the STA can altter these min and max values on its own? It's better to have AP set these values, but I do not see AP broadcasting such values.	Clarify	2017/1/9 9:42
5692	Guoqing Li	225	1 27.10.2	192	40	E	N	192.40 27.10.2	Multiple sentences are refering to the use of 10.13.6, it's better to combine these sentences to avoid confusion.	Edit the paragraph to combine the sentences	2017/1/9 9:42
5693	Guoqing Li	225	1 27.10.3	193	1	E	N	193.01 27.10.3	the first paragraph is not complete, I assume it's a continuation from the previoius pagragraph	change to ",and provided that..." to complete the sentence	2017/1/9 9:42

5694 Guoqing Li	225	1 9.4.2.218.2	78	20	T	N	78.20 9.4.2.218.2	I think the multi-TID aggregation support is referring to wehther and how many TIDs the STA can receive (not transmit) in an A-MPDU. This is consistent with page 193 line 11 and 12.	change to "indicates the number of TIDs...that the STA can receive in a multi-TID AMPDU...."	2017/1/9 9:42
5695 Guoqing Li	225	1 27.10.4	194	27	E	N	194.27 27.10.4	"allocated"-->"allocates"	"allocated"-->"allocates"	2017/1/9 9:42
5696 Guoqing Li	225	1 27.10.4	194	40	T	N	194.40 27.10.4	"when any of the buffers is empty", this part of the setnence does seem necessary and only adds confusion.	Remove "when any of the buffer is empty"	2017/1/9 9:42
5697 Guoqing Li	225	1	9	60	E	N	9.60	There is no terminology as "MU OFDMA". I think it should be "OFDMA"	change "MU OFDMA" to "OFDMA"	2017/1/9 9:42
5698 Guoqing Li	225	1 27.5.1.1	162	53	T	N	162.53 27.5.1.1	The reference to HE MU PPDU should not be the padding section for trigger-based PPDU, it should refer to the DL MU PPDU padding section	Correct the reference	2017/1/9 9:42
5699 Guoqing Li	225	1 27.5.1.1	162	45	T	N	162.45 27.5.1.1	Do line 44-47 and line 56-59 say the same thing?	Clarify	2017/1/9 9:42
5700 Guoqing Li	225	1 27.5.1.1	162	56	T	N	162.56 27.5.1.1	There is terminology called "DL OFDMA with MIMO PPDU"	Use a difined terminology	2017/1/9 9:42
5701 Guoqing Li	225	1 27.5.1.1	162	58	T	N	162.58 27.5.1.1	There is no field called "DL OFDMA With MIMO Support field" in HE Capabilities Element	Use a defined terminology or define it.	2017/1/9 9:42
5702 Guoqing Li	225	1 27.5.2.1	164	14	T	N	164.14 27.5.2.1	There is no terminology called MU-MIMO RU and UL OFDMA PPDU. I think what this sentence means is "An AP shall not ... assigning spatial streams to more than one STA in an RU in the response trigger-based PPDU when the RU does not span..."	Clarify as suggested	2017/1/9 9:42
5703 Guoqing Li	225	1 27.5.2.1	164	19	T	N	164.19 27.5.2.1	There is no terminology called "UL MU-MIMO HE trigger-based PPDU"	Delete "UL MU-MIMO" from the sentence.	2017/1/9 9:42
5704 Guoqing Li	225	1 27.5.2.1	164	24	T	N	164.24 27.5.2.1	There is no terminology called "UL OFDMA PPDU"	Use a difined terminology	2017/1/9 9:42
5705 Guoqing Li	225	1 27.5.2.1	164	46	E	N	164.46 27.5.2.1	There is an extra . After "..random access allocation)".	Remove the extra period.	2017/1/9 9:42
5706 Guoqing Li	225	1 27.5.2.1	164	50	T	N	164.50 27.5.2.1	Comparing to the first bullitin which has "one or more trigger frames", the second bullitin here says "an UL MU Response scheduling", it reads like only one MPDU in the PPDU can include an UL MU response scheduling subfield. However, I don't think that's the intention of this bullitin. Multiple MPDUs can carry the UL MU response scheduling A-Control field each addressed to differnet STAs. This needs to be clarified.	Clarify, remove "An" from beginning of the sentence.	2017/1/9 9:42
5707 Guoqing Li	225	1 27.11.1	196	2	T	N	196.02 27.11.1	2047 is used as start of MAC padding on page 165 line 35 and here it's used to indicate STAs in all BSS when multiBSS is acviated. How does a STA identify if it's for start of the MAC padding or for STAs in all BSS?	Clarify	2017/1/9 9:42
5708 Guoqing Li	225	1 27.5.2.2.2	165	47	T	N	165.47 27.5.2.2.2	Why both false and true conditions are in the sentence? I think only this sentence is for the case when dot11MultiBSSIDactivated is false.	remove "when dot11MultiBSSIDactivated is false"	2017/1/9 9:42
5709 Guoqing Li	225	1 27.5.2.2.2	165	51	T	N	165.51 27.5.2.2.2	"intend to communciate" is not an accurate wording. A more suitable word is "is capable of communicating"	"intend to"-->"is capable of communicating"	2017/1/9 9:42
5710 Guoqing Li	225	1 27.5.2.2.2	165	54	T	N	165.54 27.5.2.2.2	There is no field called "multiple BSSUD support field". I think this refers to the "RX Control Frame to MultipleBSS" field in HE Capabilities Element.	change the terminology to be consistent	2017/1/9 9:42
5711 Guoqing Li	225	1 27.5.2.2.2	165	54	T	N	165.54 27.5.2.2.2	What is the meaning of "RX Control Frame to MultiBSS"? Is it capable to receive trigger frame destined to more than one BSS or it's the capability of the STA assocaited with non transmitted BSS to be able to receive frame with TA=transmitted BSSID?	Clarify	2017/1/9 9:42

5712	Guoqing Li	225	1 27.5.2.2.3	167	39	T	N	167.39 27.5.2.2.3	It's not clear whhich case this paragraph apply to. Does this pagraph applies to the case when trigger is the only frame in the PPDU? Does it cover the case where trigger is aggregated with data? The trigger-frame only PPDU case is already covered in the paragraph above it.	Clarify	2017/1/9 9:42
5713	Guoqing Li	225	1 27.5.2.3	167	59	T	N	167.59 27.5.2.3	There is a TBD in the spec. Define this TBD bahvior.	Define this "TBD" behavior	2017/1/9 9:42
5714	Guoqing Li	225	1 27.5.2.3	167	59	T	N	167.59 27.5.2.3	why there is a case that the STA is not associated with the AP and can receive a trigger frame destined for it? Is it for pre-associated STA during random access?	Specify how this works, or delete.	2017/1/9 9:42
5715	Guoqing Li	225	1 27.5.2.3	168	8	T	N	168.08 27.5.2.3	section 27.2.2 deals with how to update intra and inter NAV, but it doesn't specify how to set TXOP_Duration parameter. Either this is a wrong reference or section 27.2.2 should be more specific about how to set TXOP_duration field when responding a trigger frame.	Either refer to the right reference or specify how to set TXOP_duration parameter in section 27.2.2.	2017/1/9 9:42
5716	Guoqing Li	225	1 27.5.2.3	169	23	T	N	169.23 27.5.2.3	section 27.2.2 deals with how to update intra and inter NAV, but it doesn't specify how to set TXOP_Duration parameter. Either this is a wrong reference or section 27.2.2 should be more specific about how to set TXOP_duration field when responding a trigger frame.	Either refer to the right reference or specify how to set TXOP_duration parameter in section 27.2.2.	2017/1/9 9:42
5717	Guoqing Li	225	1 27.5.2.3	169	52	T	N	169.52 27.5.2.3	missing "and" between the reference of 9.7.3 and 27.10.3	add "and" between the two reference sections.	2017/1/9 9:42
5718	Guoqing Li	225	1 27.5.2.3	170	1	T	N	170.01 27.5.2.3	If the trigger is basic trigger, then there is not required type. Please clarify.	Clarify	2017/1/9 9:42
5719	Guoqing Li	225	1 27.5.2.3	170	26	T	N	170.26 27.5.2.3	line 26-32 seem to miss the condition mentioned in line 53-54.	Add the condition that the soliciting PPDU contains an UL MU response schedulig A-Control field to the list.	2017/1/9 9:42
5720	Guoqing Li	225	1 27.5.2.5	171	40	E	N	171.40 27.5.2.5	remove (#2190,2191)	remove (#2190,2191)	2017/1/9 9:42
5721	Guoqing Li	225	1 27.5.2.5	171	41	E	N	171.41 27.5.2.5	Correct the figure number 9-XX	Correct the figure number 9-XX	2017/1/9 9:42
5722	Guoqing Li	225	1 27.5.2.5	172	49	T	N	172.49 27.5.2.5	This note should be written in normative text with "shall" language	change to something like "A STA shall not transmit ...if it does not receive..."	2017/1/9 9:42
5723	Guoqing Li	225	1 27.5.2.6.2	173	46	E	N	173.46 27.5.2.6.2	missing a space between 0 and if	add a space between "0" and "if"	2017/1/9 9:42
5724	Guoqing Li	225	1 27.5.2.6.2	174	4	T	N	174.04 27.5.2.6.2	If the transmissiong using OFDMA-RA fails, can the MPDU be transmitted using regular UL OFDMA if it gets a regular trigger or can it use EDCA to transmit this failed MPDU? The text reads like that this is not allowed, however I think this should be allowed.	Clarify	2017/1/9 9:42
5725	Guoqing Li	225	1 27.5.3	175	36	T	N	175.36 27.5.3	I don't think this is correct. The AP could return OFDMA BA to multiple A-MPDUs in the proceeding TRIG PPDU. So the word "at most..." is not correct.	Remove this sentence.	2017/1/9 9:42
5726	Guoqing Li	225	1 27.5.3	175	43	T	N	175.43 27.5.3	What does "that AMPDU" mean? I think an HE MU PPDU that contains an AMPDU which aggregates data and trigger starts the cascade sequence. If so, this needs to be clarified.	Clarify	2017/1/9 9:42
5727	Guoqing Li	225	1 27.5.3	175	60	T	N	175.60 27.5.3	the receives for the DL HE MU PPDU must be different from hat of the following trigger-based PPDU since the former's receive is the non-AP STAs and the latter one's receiver is AP. This sentence does not add anything but can cause misunderstanding.	Remove this sentence.	2017/1/9 9:42
5728	Guoqing Li	225	1 27.6.1	176	9	E	N	176.09 27.6.1	It's better to change to "Similar to VHT sounding protocol..."	change to "Similar to VHT sounding protocol..."	2017/1/9 9:42
5729	Guoqing Li	225	1 4.3.14a	9	35	T	N	9.35 4.3.14a	I don't think 40MHz is mandatory at 2.4GHz, so this sentence is not accurate.	Clarify	2017/1/9 9:42
5730	Guoqing Li	225	1 4.3.14a	9	38	T	N	9.38 4.3.14a	Missing 80+80 in this sentece.	add "/80+80MHz" after "160MHz".	2017/1/9 9:42

5731	Guoqing Li	225	1 4.3.14a	9	40	T	N	9.40 4.3.14a	I think DL MU-MIMO support is mandatory. However, this sentence reads like that DL MU-MIMO is only mandatory if the HE AP supports 4 or more spatial streams.	Change to "by an HE AP and the HE AP shall support 4 or more..."	2017/1/9 9:42
5732	Guoqing Li	225	1 4.3.14a	9	60	E	N	9.60 4.3.14a	change "MU OFDMA" to "OFDMA"	change "MU OFDMA" to "OFDMA"	2017/1/9 9:42
5733	Guoqing Li	225	1 4.3.14a	9	64	T	N	9.64 4.3.14a	"scheduled trigger frame are sent...", this sentece reads like such scheduled trigger frame is mandatory behavior. However, whether HE AP setups scheduled trigger frame is part of scheduling algorithm and shouldn't be mandated.	Chagne to soemthign like the following, "Schedueld trigger frame can be sent..."	2017/1/9 9:42
5734	Guoqing Li	225	1 27.11.4	196	52	T	N	196.52 27.11.4	"from the HE STA with which...", should this HE STA be HE AP?	Change to "from the HE AP with which..."	2017/1/9 9:42
5735	Guoqing Li	225	1 27.11.2	196	12	T	N	196.12 27.11.2	Why only extended range SU PPDU is excluded in this case. If the intention is to ask 3rd party device to set NAV when transmitting RTS or CTS, then HE SU PPDU should also be included.	Chagne "an HE extended range SU PPDU" to "an HE SU PPDU or HE extended range SU PPDU"	2017/1/9 9:42
5736	Guoqing Li	225	1 27.13	199	5	E	N	199.05 27.13	This sentence doesn't seem to be in right grammer. Also, missing a "the" before "the recommended MCS"	Correct	2017/1/9 9:42
5737	Guoqing Li	225	1 27.14.2	200	1	E	N	200.01 27.14.2	The first sentence is not well written. Suggest to remove the text wtihin the parenthesis.	Remove the text in paranthesis	2017/1/9 9:42
5738	Guoqing Li	225	1 27.14.2	200	22	T	N	200.22 27.14.2	Even if the TWT flow identifier indicates that this TWT doesn't contain random RU, I think the STA can still go to doze until the start of the SP if the AP doesn't indicate presence of DL traffic in TIM, right? If so, then there is no need to mention the ramdom access here.	Clarify	2017/1/9 9:42
5739	Guoqing Li	225	1 27.11.6	198	28	T	N	198.28 27.11.6	For SU PPDU, can the spatial reuse be set to SR_restricted? The allowed setting for SU PPDU vs. MU PPDU is not clear.	Clarify	2017/1/9 9:42
5740	Guoqing Li	225	1 27.14.2	200	22	T	N	200.22 27.14.2	I think this subsection (power save with UL OFDMA-based random access) only apply to the case when this Beacon doesn't beong to the beacon that the STA is supposed to monitor. Otherwise, if this is a Beacon that the STA is supposed to wake up and monitor based on broadcast TWT Setup, then the STA need to wake up at the start of the TWT SP anyway no matter whether it will contain random RU or not in order to get triggered by AP.	Clarify	2017/1/9 9:42
5741	Guoqing Li	225	1 27.16.2	206	53	E	N	206.53 27.16.2	A HE AP-->An HE AP	A HE AP-->An HE AP	2017/1/9 9:42
5742	Guoqing Li	225	1 27.16.2	206	58	E	N	206.58 27.16.2	A HE AP-->An HE AP	A HE AP-->An HE AP	2017/1/9 9:42
5743	Guoqing Li	225	1 27.16.1	205	36	E	N	205.36 27.16.1	Shoud this be "VHT operation element VHT Qpration Information field' instead of "HT operation element...."	Clarify	2017/1/9 9:42
5744	Guoqing Li	225	1 27.16.3.1	207	7	T	N	207.07 27.16.3.1	"Can" is not a normative text, change to "should"	Can-->Should	2017/1/9 9:42
5745	Guoqing Li	225	1 28.1.1	210	34	T	N	210.34 28.1.1	Shoudn't extended range SU PPDU also be included in MCS0-7 list according to IEEE doc#1159r2	If it's missing in the list then add this into the list	2017/1/9 9:42
5746	Guoqing Li	225	1 28.1.1	212	40	T	N	212.40 28.1.1	Better to be consistent with line 36 which uses "HE trigger-based PPDU"	"HE_TRIG PPDU" to "HE trigger-based PPDU" or change l ine 36 to be "HE_TRIG PPDU"	2017/1/9 9:42
5747	Guoqing Li	225	1 28.1.1	211	34	T	N	211.34 28.1.1	"within a 20MHz PPDU and a full full bandwidth PPDU", does this full bandwidth PPDU refer to 20Mhz full bandwidth PPDU or any bandwidth PPDU?	Clarify	2017/1/9 9:42
5748	Guoqing Li	225	1 28.1.2	211	56	E	N	211.56 28.1.2	missing a space between "PHYs" and "A non-AP STA".	Add a space between "PHYs" and "A non-AP STA".	2017/1/9 9:42
5749	Guoqing Li	225	1 28.1.4	213	40	E	N	213.40 28.1.4	The grammer doesn't seem right in the sentence.	including-->includes	2017/1/9 9:42
5750	Guoqing Li	225	1 28.1.4	213	58	T	N	213.58 28.1.4	trigger-based PPDU can also be sent as a response to a PPDU that carries a frame which contains UL MU Response Scheduling A-Control field.	change to "is sent in response to a PPDU that carries a trigger frame or a frame that contains UL MU Resonse scheduling A-Control field".	2017/1/9 9:42

5751	Guoqing Li	225	1 28.2.2	224	15	E	N	224.15 28.2.2	Missing an "and" between "The RU assignment in frequency domain" and "number of MU-MIMO allocations" or make it into bullitin format.	add an "and"	2017/1/9 9:42
5752	Guoqing Li	225	1 28.2.2	226	22	E	N	226.22 28.2.2	AP's choosing-->AP's choice	AP's choosing-->AP's choice	2017/1/9 9:42
5753	Guoqing Li	225	1 28.2.2	223	53	T	N	223.53 28.2.2	Though obvious, it is better to spell out what does 0 indicates and what does 1 indicates	Specify what does 0 and 1 indicates, respecetively.	2017/1/9 9:42
5754	Guoqing Li	225	1 28.1.1	210	23	T	N	210.23 28.1.1	According to SFD, STA supporting >4 spatial streams shall support LDPC and such requirment apply to 20MHz-only too. So this requirement is not correct.	Remove "except when the STA is a 20MHz only STA"	2017/1/9 9:42
5755	Guoqing Li	225	1 28.1.1	210	27	T	N	210.27 28.1.1	According to SFD, STA supporting >4 spatial streams shall support LDPC and such requirment apply to 20MHz-only too. So this requirement is not correct.	Remove "except when the STA is a 20MHz only STA"	2017/1/9 9:42
5756	Guoqing Li	225	1 10.22.2.7	132	17	T	N	132.17 10.22.2.7	What specific rules are being referred here? This subclause is "multiple frame transission". What rules are applicable here when AP gets a respone to trigger frame? Does it intend to refer to the rules on error receovery and backoff?	Clarify	2017/1/9 9:42
5757	Guoqing Li	225	1 9.3.1.23	45	43	T	N	45.43 9.3.1.23	Line 43 of page 45 says B12 indicates primary or non-primary 80MHz.If B12 is 1, then it indicates non-primary. And then line 28 of page 46 says this bit is set to 1 (for 160M/80+80). Are these two places contradictory?	add "except when BW indicates 160MHz/80+80MHz" at the end of the sentence on line 43 of page 45.	2017/1/9 9:42
5758	Guoqing Li	225	1 9.3.1.1	55	22	T	N	55.22 9.3.1.1	Why RAPS is only in probe response, should it be also in (Re)Association response?	Include RAPS in (Re)Association response frame format	2017/1/9 9:42
5759	Guoqing Li	225	1 9.4.2.00	70	50	T	N	70.50 9.4.2.00	"as other TWT paramters are sugested by TWT scheduled STAs", does scheduled STA also suggest flow identifier? It seems to me that flow identifier is determined by the AP's scheduling algorithm and scheduled STA doesn't suggest this parameter.	Clarify	2017/1/9 9:42
5760	Guoqing Li	225	1 9.4.218.2	76	22	T	N	76.22 9.4.218.2	HE MAC Capabilities field is missing a few items: other than fragmoff, bitmap=64, other bitmap size are all optional and need to have a capability indication	Add capability indication for bitmap size+Frag conbinations other than Fragmoff, bitmap=64	2017/1/9 9:42
5761	Guoqing Li	225	1 10.3.2.8a.3	117	39	T	N	117.39 10.3.2.8a.3	missing "non-HT duplicate"	change to "The data rate to be used for the non-HT or non-HT duplicate..."	2017/1/9 9:42
5762	Guoqing Li	225	1 10.3.2.10.1	118	58	T	N	118.58 10.3.2.10.1	The response can be solicited by MU-BAR	chagne to "are transmitted in response to explocit BlockAckReq or MU-BAR..."	2017/1/9 9:42
5763	Guoqing Li	225	1 10.3.2.10.3	120	3	T	N	120.03 10.3.2.10.3	Missing "non-HT" from the list	change to "are allowed in non-HT, non-HT Duplicate..."	2017/1/9 9:42
5764	Hanseul Hong	225	1 9.3.1.9.3	36	20	T	N	36.20 9.3.1.9.3	B3 of fragment number subfield is always set to 0	Make B3 of fragment number subfield reserved or use it in other purpose	2017/1/9 9:42
5765	Hanseul Hong	225	1 9.4.2.200	69	36	E	N	69.36 9.4.2.200	The length of TargetWakeTime subfield is 2 in case of broadcast TWT	Change '8 or 0' to '8 or 2 or 0' for the length of TargetWakeTime subfield	2017/1/9 9:42
5766	Hanseul Hong	225	1 9.4.2.200	69	36	E	N	69.36 9.4.2.200	In broacast TWT, TWT channel subfield is not present	Change '1' to '1 or 0' for the length of TWT channel subfield	2017/1/9 9:42
5767	Hanseul Hong	225	1 9.4.2.200	70	4	T	N	70.04 9.4.2.200	In table 9-262k, TWT scheduling STAs may set TBTT negotiation subfield to 1 in case of accept/reject TWT	Delete 'scheduling STA'	2017/1/9 9:42
5768	Hanseul Hong	225	1 9.4.2.200	74	52	T	N	74.52 9.4.2.200	According to the description, the TWT Channel field in TWT element sent by an HE TWT requesting STA indicates temporary primary channel during TWT SP.	Change 'a TWT requesting STA' to 'a S1G TWT requesting STA' and 'a TWT responding STA' to 'a S1G TWT responding STA', or give some description of using temporary channel in an HE STA	2017/1/9 9:42
5769	Hanseul Hong	225	1 9.4.2.200	75	24	T	Y	75.24 9.4.2.200	It says "A TWT requesting STA sets the TWT Protection subfield to 0 if TWT protection by RAW allocation is not requested for the corresponding TWT(s)". However, an HE STA, TWT Protection subfield may be set to 1 to enable the NAV protection given by 802.11ax.	Delete the sentence or change 'A TWT requesting STA' to 'A S1G TWT requesting STA'	2017/1/9 9:42

5770	Hanseul Hong	225	1 9.4.2.224	96	28	T	N	96.28 9.4.2.224	The details of setting Quiet Time Period request elements are missing	Clarify	2017/1/9 9:42
5771	Hanseul Hong	225	1 9.4.2.224	96	28	T	N	96.28 9.4.2.224	In case of not periodic QTP, how to set Quite Time Period is not defined	define the case for not periodic QTP	2017/1/9 9:42
5772	Hanseul Hong	225	1 10.3.2.8a.2	117	11	T	Y	117.11 10.3.2.8a.2	Is it possible to transmit MU-RTS in HT PPDU or VHT PPDU format?	Clarify	2017/1/9 9:42
5773	Hanseul Hong	225	1 10.9	126	65	E	N	126.65 10.9	If the UL Power Headroom or Bandwidth Query Report operation is optional, corresponding words should be included	As in the comment	2017/1/9 9:42
5774	Hanseul Hong	225	1 10.9	127	37	E	N	127.37 10.9	Include when the Control ID subfield equals 6	Add a bullet as 'A value of 6 in the Control ID subfield when the transmitting STA follows the reverse direction protocol procedure, as described in 10.28 (Reverse direction protocol)'	2017/1/9 9:42
5775	Hanseul Hong	225	1 10.22.2.7	132	34	T	Y	132.34 10.22.2.7	If MU-RTS can be sent in HT PPDU or VHT PPDU format, describe how to set TXVECTOR parameter CH_BANDWIDTH	Clarify	2017/1/9 9:42
5776	Hanseul Hong	225	1 10.28.3	136	50	T	N	136.50 10.28.3	Since non-HE RD responder cannot send Multi-STA BlockAck, it is not needed to add it	Delete the bullet 'Mult-STA BlockAck'	2017/1/9 9:42
5777	Hanseul Hong	225	1 10.43.1	138	47	T	N	138.47 10.43.1	When the Broadcast subfield is 1, what is the value of Wake TBTT Negotiation subfield?	Clarify	2017/1/9 9:42
5778	Hanseul Hong	225	1 10.43.1	139	53	T	N	139.53 10.43.1	The 'Accept TWT with Wake TBTT Negotiation subfield = 1 0 and Broadcast subfield = 1' case is included in 'Accept TWT or Alternate TWT or Dictate TWT or Reject TWT with Wake TBTT Negotiation subfield = 0'. One is indication of broadcast TWT parameter, and the other is not allowed setting	Exclude the former case from the latter case	2017/1/9 9:42
5779	Hanseul Hong	225	1 27.2.1	149	51	T	Y	149.51 27.2.1	According the draft, when the BSS_COLOR is same and Mac address is different, it is determined as intra-BSS frame	Describe this case to be determined as inter-BSS frame	2017/1/9 9:42
5780	Hanseul Hong	225	1 27.5.1.1	162	58	T	N	162.58 27.5.1.1	DL OFDMA with MIMO Support field is not present in HE capabilites element	add it in HE capabilities element	2017/1/9 9:42
5781	Hanseul Hong	225	1 27.5.2.1	164	27	E	N	164.27 27.5.2.1	Class A subfield is present in HE capabilites element as 'Device class' subfield	Change 'Class A subfield' to 'Device class subfield'	2017/1/9 9:42
5782	Hanseul Hong	225	1 27.14.3	200	39	E	N	200.39 27.14.3	Since the details of using TIM element is about broadcast TWT, it should be merged to 27.7.3 (Broadcast TWT operation)	As in the comment	2017/1/9 9:42
5783	Hongyuan Zhang	225	1 28.3.20	368	42	T	Y	368.42 28.3.20	When HE-SIG-A CRC Fails, PHY.CCA(Busy) should not be held according to RXTIME in (28-128), which is based on some subfields of HE-SIG-A.	Creat a new RXTIME formula in this case, similar to the 11ac RXTIME formular with SignalExtension added. Refer to this new RXTIME formula if the SIGA CRC fails	2017/1/9 9:42
5784	Hongyuan Zhang	225	1 28.3.14.3	342	58	T	Y	342.58 28.3.14.3	"A STA that transmits an HE trigger-based PPDU shall have timing accuracy of +/-0.4 ++s relative to the actual ending time of the PPDU carrying the Trigger frame. This requirement does not include round trip delay."--the word "actual ending time" needs to be clarified. Same applies to 17.3.9.10 for PPDUs carrying MU-RTS.	Use better word, for example "the last sample of the PPDU as indicated by the preamble"	2017/1/9 9:42
5785	Hongyuan Zhang	225	1 28.3.14.3	342	58	T	Y	342.58 28.3.14.3	For VHT packets with short GI carrying trigger frame, the RXTIME is computed based on (21-106), which rounds to the next 4us boundary, therefore it is contradictory with the statement of "actual ending time".	Disallow SGI for HT/VHT PPDUs carrying a HE Trigger frame	2017/1/9 9:42
5786	Hongyuan Zhang	225	1 9.4.2.218.3	84	49	T	Y	84.49 9.4.2.218.3	Too many capabilities related Beamformee STS: "Beamformee STS for <=80", "NSTS_total for <=80MHz", same two capabilities for >80mHz. Almost all exisiting client devices have same numbers for these two capabilities, it is better to merge these two capabilities	Merge to "Beamformee STS for <=80MHz" and "Beamformee STS for >80MHz", each of them represents the single NSTS_total upper limit that a STA may receive in either an NDP or an DL-MUMIMO PPDU.	2017/1/9 9:42

5787 Hongyuan Zhang	225	1 28.3.10.7.2	275	34	T	Y	275.34 28.3.10.7.2	Undefined mechanism when the "Doppler" bit in SIGA is set to 1, also applicable to HE-SIG-A of HE-MU PPDU formal.	Either define the PHY mechanism when Doppler bit is set to 1, or change this bit to reserved,	2017/1/9 9:42
5788 Hongyuan Zhang	225	1 27.5.2.7	174	22	T	Y	174.22 27.5.2.7	The NDP feedback report PHY format is not defined.	Either define the PHY mechanism for NDP feedback report, or remove this subclause and other related placehodlers.	2017/1/9 9:42
5789 Hongyuan Zhang	225	1 9.4.2.218.3	84	12	T	Y	84.12 9.4.2.218.3	Only maximum constellation capability for DCM in SIGB is meaningful, the max NSS capability is only applied for DCM in Data field.	B25:24, and B28:27 are for max constellation support for DCM in both Data and SIGB; B26 and B29 are for max Nss support for DCM in Data field only.	2017/1/9 9:42
5790 Hongyuan Zhang	225	1 9.4.2.218.4	86	42	T	Y	86.42 9.4.2.218.4	In 11n, all BW modes (20 and 40MHz) have the same MCS and Nss capabilities; in 11ac all BW modes within {20, 40, 80}MHz have ths same MCS and Nss capabilities, while 160/80+80MHz may define a different Nss capability; now in 11ax it seems that the presence of "Tx MCS Nss Descriptions" and "Rx MCS NSS Descriptions" fields allow any BW modes to define a different Max Nss and Max MCS capabilities, and different Nss may defined different max MCS too. Do we really need this level of flexibility? For example, for a 80MHz capable device it seems very natrual that the same number of Nss should be supported for 20, 40 and 80MHz modes because almost all the necessary hardware are already physically present. This unnecessary flexibility makes the AP rate control much more complex than the previous generations.	Consolidate the MCS/Nss capabilities, make them common for 20/40/80MHz like in 11ac.	2017/1/9 9:42
5791 Hongyuan Zhang	225	1 28.1.1	210	57	T	Y	210.57 28.1.1	4xLTF and 0.8us GI is missing for the optional PHY feature.	Add 4xLTF and 0.8us GI in a new bullet	2017/1/9 9:42
5792 Hui-Ling Lou	225	1 28.3.10.7.2	275	34	T	Y	275.34 28.3.10.7.2	Mechanism undefined when "Doppler" bit in HE-SIG-A bit is set to 1.	Define the mechanism for the case when the Doppler bit is set to 1 and reference that in Table 28-16 for Doppler bit set to 1.	2017/1/9 9:42
5793 Huizhao Wang	225	1 9.7.3	109	9	T	Y	109.09 9.7.3	ACK, Block ACK, Multi-STA Block ACK are all required to be placed at the first of subframe of an A-MPDU. How is it possible to place them if both ACK and Block ACK (or multi-STA Block ACK) are included in an A-MPDU?	Need to add a rule to ensure that in an A-MPDU, it can only contain at most one ACK, or Block ACK, or multi-STA Block ACK	2017/1/9 9:42
5794 Huizhao Wang	225	1 10.3.2.4	115	1	T	Y	115.01 10.3.2.4	The rule is not clear about updating NAV from RXVECTOR TXOP_DURATION field, when it is indicating using the PSDU's Duration field	Replace the text: "The STA does not receive a frame with the duration information indicated by a Duration field in the PSDU of the PPDU carrying the RXVECTOR parameter TXOP_DURATION" with following text: "The STA does not receive a frame with valid duration information inside Duration field in the PSDU, but it is indicated by the RXVECTOR parameter TXOP_DURATION field to use PSDU Duration field"	2017/1/9 9:42
5795 Huizhao Wang	225	1 10.3.2.8a.3	117	29	T	Y	117.29 10.3.2.8a.3	The 4th rule of responding to MU-RTS is not clear, it mentions a term "basic NAV" is 0, but no where in the text has description of "basic NAV"	Please add text to describe the term "basic NAV"	2017/1/9 9:42
5796 Huizhao Wang	225	1 10.43.1	137	47	E	Y	137.47 10.43.1	None Engish word "tha"	Change "tha" to "that"	2017/1/9 9:42
5797 Huizhao Wang	225	1 11.1.3.10	141	50	T	Y	141.50 11.1.3.10	Need detail description of different element sets may be included in beacons in non-HE and HE_EXT_SU PPDUs formats. If they are carrying different set of elements, then in order to avoid any ambiguity, need to list out which elements may differ, and the reasons behind them.	Please add detail description	2017/1/9 9:42

5798	Huizhao Wang	225	1 11.2.2.6	142	35	T	Y	142.35 11.2.2.6	There is no "More Data Ack" bit defined in QoS Capability element for AP. Bit7 is still reserved in QoS Info field when sent by AP. If HE AP wants to use this bit to signal it supports set More Data bit in ACK/Block ACK, then need to change the definition of the QoS Info field sent by AP	Please change the definition of QoS Info field sent by AP in clause 9.4.1.17		2017/1/9 9:42
5799	Huizhao Wang	225	1 27.2.1	149	19	T	Y	149.19 27.2.1	GROUP_ID and PARTIAL_AID cannot be used by non-AP STA to determine inter-BSS or intra-BSS of a frame, if it is not intended receiver because it does have the knowledge of AIDs assigments to other STAs in the same BSS	Remove "or GROUP_ID and PARTIAL_AID in VHT"		2017/1/9 9:42
5800	Huizhao Wang	225	1 27.2.2	151	15	T	Y	151.15 27.2.2	Need an example to clarify the following rule of updating intra-BSS NAV: "The STA does not receive a frame with the duration information indicated by a Duration field in the PSDU of the PPDU carrying the RXVECTOR parameter TXOP_DURATION"	Please add an example to depict this rule clearly		2017/1/9 9:42
5801	Huizhao Wang	225	1 27.3.4.3	156	31	T	Y	156.31 27.3.4.3	The rule of dropping the dynamic fragments after receiving BAR needs to further clarified that it only apply to the fragments which have not yet fully assembled to become a complete MSDU, MMPDU, A-MPDU	Replace the text: "A recipient shall discard any fragments", with following text: "A recipient shall dicard any fragments which have not fully assembled as MSDU, A-MSDU, or MMPDU"		2017/1/9 9:42
5802	Huizhao Wang	225	1 27.3.4.44	157	9	T	Y	157.09 27.3.4.44	The rule of dropping the dynamic fragments after receiving BAR needs to further clarified that it only apply to the fragments which have not yet fully assembled to become a complete MSDU, MMPDU, A-MPDU	Replace the text: "A recipient shall discard any fragments", with following text: "A recipient shall dicard any fragments which have not fully assembled as MSDU, A-MSDU, or MMPDU"		2017/1/9 9:42
5803	Huizhao Wang	225	1 27.4.1	158	13	T	Y	158.13 27.4.1	Rule of not allowed to send Mult-STA Block ACK to STAs with MultiBSS case is not clear.	Replace the text: " to the STA", with the text: " on the HE AP"		2017/1/9 9:42
5804	Huizhao Wang	225	1 27.4.3	160	5	T	Y	160.05 27.4.3	Starting Sequence number range is wrong. It should be allowed between WinStartR and WinEndR -1	Remove the text: "The Starting Sequence Number subfield of the Block Ack Starting Sequence Control subfield shall be set to any value in the range from (WinEndR -⌈WinStartR/BitmapLength⌉ + 1) to WinStartR"		2017/1/9 9:42
5805	Huizhao Wang	225	1 27.4.3	160	8	T	Y	160.08 27.4.3	The description of how to choose Block ACK bitmap size if its smallest bitmap size is greater than the WinSizeR is not clear	Replace the text: "The values in the recipient's record of status of MPDUs beginning with the MPDU for which the Sequence Number subfield value is equal to WinStartR and ending with the MPDU for which the Sequence Number subfield value is equal to WinEndR, wherein the length of the BlockAck Bitmap field shall be greater than or equal to the smallest BitmapLength that is greater than WinEndR -⌈WinStartR/BitmapLength⌉" With following text: "If the smallest BitmapLengh is greater than WinSizeR, then the Bock ACK bitmap field shall be greater than or equal to the smallest BitmapLength"		2017/1/9 9:42
5806	Huizhao Wang	225	1 27.4.3	160	17	T	Y	160.17 27.4.3	Block ACK transmit time should not be bounded by TXOP limitation	Remove the text: "NOTE 2--An HE STA can generate a Block Ack frame with variable length Block Ack Bitmap field in which case the STA ensures that the Block Ack frame response fits within the remaining duration of the TXOP."		2017/1/9 9:42
5807	Huizhao Wang	225	1 27.4.4.5	162	27	T	Y	162.27 27.4.4.5	There is no text to describe how the "broadcast RU" is signaled	Remove the text: "broadcast RU"		2017/1/9 9:42
5808	Huizhao Wang	225	1 27.5.1.3	163	43	T	Y	163.43 27.5.1.3	If a STA canot find its STA-ID in BQRP trigger frame, then this BQRP is not intended to it, and should not respond	Remove the text: "otherwise the STA shall follow the rules defined in 27.5.2.6 (UL OFDMA-based random access) to gain access to a random RU and generate the HE trigger-based PPDU when the Trigger frame contains one or more random RU(s)."		2017/1/9 9:42

5809	Huizhao Wang	225	1 27.5.2.2.2	167	17	E	Y	167.17 27.5.2.2.2	Remove unintended wording from how to assign value in AC Preference subfield	Remove "to 1"		2017/1/9 9:42
5810	Huizhao Wang	225	1 27.5.2.3	167	58	T	Y	167.58 27.5.2.3	If a STA is not associated to an AP, but received a Trigger frame from it, it should discard the Trigger frame, and does not respond with HE Trigger based PPDU	Replace the text: "TBD", with "then it shall discard the Trigger frame."		2017/1/9 9:42
5811	Huizhao Wang	225	1 27.5.2.7	174	21	T	Y	174.21 27.5.2.7	Need to add text to describe NDP feedback report	Please add the missing text to describe NDP feedback report frame format, elements, and procedure		2017/1/9 9:42
5812	Huizhao Wang	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	Table YY-1 is missing	Please add the missing table YY-1		2017/1/9 9:42
5813	Huizhao Wang	225	1		1	E	Y		Check indentation at the Table of Content	Indent "access(EDCA) 30" to inline with other subclauses in the Table of Content		2017/1/9 9:42
5814	Huizhao Wang	225	1		50	E	Y		Add spece between subclause number and title	Add space between "10.10" and "Contral Wrapper Operation". And there are many places in the Table of Contents need to separate the subclause numbers from the titles		2017/1/9 9:42
5815	Huizhao Wang	225	1 4.3.14a	9	39	T	Y	9.39 4.3.14a	Missing mandagory support Rus for 80+80MHz channel	Add: "Mandatory support for 26-, 52-, 106-, 242-, 484-, 996- and 2x996-tone RUs in a 80+80 MHz channel"		2017/1/9 9:42
5816	Huizhao Wang	225	1 4.3.14a	9	46	E	Y	9.46 4.3.14a	Duplicate mention of 1024 QAMs and MCS 10/11	Since line 43 already mentioned optional support 1024QAMs, remove line 46		2017/1/9 9:42
5817	Huizhao Wang	225	1 8.3.5.12.2	16	43	E	Y	16.43 8.3.5.12.2	Need explicitly mention VHT STA for first sentence of explaining the meaning of secondary40	add: "In a VHT STA" at the beginning of the first sentence		2017/1/9 9:42
5818	Huizhao Wang	225	1 8.3.5.12.2	16	53	E	Y	16.53 8.3.5.12.2	Need explicitly mention VHT STA for first sentence of explaining the meaning of secondary80	Add "In a VHT STA" at the beginning of the first sentence		2017/1/9 9:42
5819	Huizhao Wang	225	1 9.2.4.1.8	19	40	T	Y	19.40 9.2.4.1.8	"More Data Ack" in QoS Info Field is reserved for HE AP. Need to change the QoS Info field for HE AP to have the "More Data Ack" defined	Change the QoS Info field reserved Bit7 to "More Data Ack" for HE AP as well		2017/1/9 9:42
5820	Huizhao Wang	225	1 9.2.4.1.10	20	1	T	Y	20.01 9.2.4.1.10	Referencing undefined subclause 10.51.5.4: "Rely-shared TXOP protection mechanism"	Since subclause 10.51.5.4 does not exist, please remove this sentence from the draft		2017/1/9 9:42
5821	Huizhao Wang	225	1 9.2.4.5.6	21	11	T	Y	21.11 9.2.4.5.6	There is no good reason to change the meaning of "queue size value" between non-HE STA and HE STA. Its meaning should be kept as same as in 802.11-2016, subclause 9.2.4.5.6: "The queue size value is the total size, rounded up to the nearest multiple of 256 octets and expressed in units of 256 octets, of all MSDUs and A-MSDUs buffered at the STA (excluding the MSDU or A-MSDU of the present QoS Data frame) in the delivery queue used for MSDUs and A-MSDUs with TID values equal to the value in the TID subfield of this QoS Control field."	Restore to the original text in 802.11-2016: "The queue size value is the total size, rounded up to the nearest multiple of 256 octets and expressed in units of 256 octets, of all MSDUs and A-MSDUs buffered at the STA (excluding the MSDU or A-MSDU of the present QoS Data frame) in the delivery queue used for MSDUs and A-MSDUs with TID values equal to the value in the TID subfield of this QoS Control field."		2017/1/9 9:42
5822	Huizhao Wang	225	1 9.2.4.6.4.7	27	52	E	Y	27.52 9.2.4.6.4.7	Figure 9-15g UL Power Headroom should have 3 cells	Draw the figure with three cells: B0-B4, power headroom; B5, min power indication; B6-B7, reserved		2017/1/9 9:42
5823	Huizhao Wang	225	1 9.3.1.6	33	33	T	Y	33.33 9.3.1.6	HE STA can send non-HT or non-HT dupiclated CF-END to a VHT AP as well	Change "or an HE STA to an HE AP", to: "or an HE STA to an HE AP, or a VHT AP"		2017/1/9 9:42
5824	Huizhao Wang	225	1 9.3.1.9.1	34	10	T	Y	34.10 9.3.1.9.1	B5 bit is missing in the BlockAck's BA Control field	Add B5 into the "Reserved" field: B5 to B11		2017/1/9 9:42
5825	Huizhao Wang	225	1 9.3.1.23	44	58	T	Y	44.58 9.3.1.23	Need to add the encoding table of Packet Extension subfield	Please add the encoding table of Packet Extension subfield		2017/1/9 9:42
5826	Huizhao Wang	225	1 9.3.1.23	45	9	T	Y	45.09 9.3.1.23	Need to add the encoding table of Spatial Reuse subfields	Please add the encoding table of Spatial Reuse subfields		2017/1/9 9:42
5827	Huizhao Wang	225	1 9.3.3.6	53	17	T	Y	53.17 9.3.3.6	Why the order of TWT IE is before HE Cap IE in (Re-)Assoc Resp frame? All other mgmt frames, the TWT IE is after HE Op IE	Move the TWT IE after the HE Op IE, as all other mgmt frames		2017/1/9 9:42
5828	Huizhao Wang	225	1 9.3.3.8	54	11	T	Y	54.11 9.3.3.8	why the order of TWT IE is before HE Cap IE in (Re-)Assoc Resp frame? All other mgmt frames, the TWT IE is after HE Op IE	move the TWT IE after the HE Op IE, as all other mgmt frames		2017/1/9 9:42

5829	Huizhao Wang	225	1 9.4.1.62	57	24	T	Y	57.24 9.4.1.62	Rules for "Remaining Feedback Segments" are not clear: "Set to a value between 1 and 6 for a feedback segment that is neither the first nor the last of a segmented report. Set to a value between 1 and 7 for a feedback segment that is not the last feedback segment of a segmented report."	Remove the sentence: "Set to a value between 1 and 6 for a feedback segment that is neither the first nor the last of a segmented report." Set to a value between 1 and 7 for a feedback segment that is not the last feedback segment of a segmented report."	2017/1/9 9:42
5830	Huizhao Wang	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	The Description for Sounding Dialog Token Number is wrong	Remove the wrong description: "The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback." And add description: "Copied from NDPA Sounding Dialog Token Number field"	2017/1/9 9:42
5831	Huizhao Wang	225	1 9.4.1.62	57	51	T	Y	57.51 9.4.1.62	Need to explicitly mention the following description is for reporting CQI: "In an HE Compressed Beamforming frame not carrying all or part of an HE Compressed Beamforming report, the Nc Index, Nr Index, Channel Width, Grouping, Codebook Information, Feedback Type and Sounding Dialog Token Number subfields are reserved, the First Feedback Segment subfield is set to 0 and the Remaining Feedback Segments subfield is set to 7."	Add explicit sentence to indicate the description is for CQI	2017/1/9 9:42
5832	Huizhao Wang	225	1 9.4.2.200	69	64	T	Y	69.64 9.4.2.200	Paragraph starting from line 64 is completely incomprehencable. It seems trying to describe the TWT element with broadcast = 1, how to determine the wake TBTT and listen interval, but it has failed to describe it clearly	Add graphs, and equations to show how to calculate the next wake TBTT and listen intervals between beacons	2017/1/9 9:42
5833	Huizhao Wang	225	1 9.4.2.200	69	31	T	Y	69.31 9.4.2.200	Target Wake Time field size should be either 8 or 2 octects	Change "8 or 0" to "8 or 2"	2017/1/9 9:42
5834	Huizhao Wang	225	1 9.4.2.200	70	34	T	Y	70.34 9.4.2.200	The description for TWT Setup command of Request TWT is not clear. It should just simply say that for Request TWT command, the Target Wake Time field should be set to zero.	Replace the text: "The Target Wake Time field of the TWT element contains 0s as the TWT responding STA specifies the target wake time value for this case.". With following simple text: "Target Wake Time field shall set to zero."	2017/1/9 9:42
5835	Huizhao Wang	225	1 9.4.2.200	73	16	T	Y	73.16 9.4.2.200	Deliver sounding feedback in TWT SP time may impact the performance of HE TxBF. The sounding feedback carries the channel matrix information of the moment of sounding NDP is received, need to timely delivered to the beamformer without delay, so using TWT SP time to deliver it will likely cause extra delays.	Remove: "Frames that are sent as part of a sounding feedback exchange (see 27.6 (HE sounding protocol))"	2017/1/9 9:42
5836	Huizhao Wang	225	1 9.4.2.200	73	42	T	Y	73.42 9.4.2.200	Deliver sounding feedback in TWT SP time may impact the performance of HE TxBF. The sounding feedback carries the channel matrix information of the moment of sounding NDP is received, need to timely delivered to the beamformer without delay, so using TWT	remove: "Frames that are sent as part of a sounding feedback exchange (see 27.6 (HE sounding protocol))"	2017/1/9 9:42
5837	Huizhao Wang	225	1 9.4.2.218.2	78	4	T	Y	78.04 9.4.2.218.2	Minimum Fragmentation Size should apply to all fragments, except the last one	Replace the text: "Indicates the minimum payload size in octets of the first fragment of an MSDU that is supported by the STA.". With the text: "Indicates the minimum payload size in octets of the fragment of an MSDU, except the last fragment, that is supported by the STA."	2017/1/9 9:42
5838	Huizhao Wang	225	1 9.4.2.218.2	78	19	T	Y	78.19 9.4.2.218.2	Multi-TID Aggregation Support subfield in HE Cap IE should be indicated as receive capability, not transmit capability	Replace the text: "Indicates the number of TIDs minus 1 of QoS Data frames that an HE STA can receive in a multi-TID A-MPDU" With the text: "Indicates the number of TIDs minus 1 of QoS Data frames that an HE STA can aggregate in a multi-TID A-MPDU"	2017/1/9 9:42

5839	Huizhao Wang	225	1 9.4.2.218.2	80	26	T	Y	80.26 9.4.2.218.2	Need a table to depcit the relatioship of HE Maximum A-MPDU Length Exponent and VHT Maximum A-MPDU Length Exponent. The sentence in D1.0 seems suggesting the HE Maximum A-MPDU Length Exponent value is only applied when VHT Maximum A-MPDU Length Exponent = 7, and other cases, use the VHT Maximum A-MPDU Length Exponent instead	Add a table to depict the relatiohship between VHT & HE Maximum A-MPDU Length Exponent fields		2017/1/9 9:42
5840	Huizhao Wang	225	1 9.4.2.218.2	80	41	T	Y	80.41 9.4.2.218.2	Need a table to depcit the relatioship of HE Maximum A-MPDU Length Exponent and HT Maximum A-MPDU Length Exponent (when there is no VHT Cap IE). The sentence in D1.0 seems suggesting the HE Maximum A-MPDU Length Exponent value is only applied when HT Maximum A-MPDU Length Exponent =7, and other cases, use the HT Maximum A-MPDU Length Exponent instead	Add a table to depict the relatiohship between HT & HE Maximum A-MPDU Length Exponent fields (when no VHT Cap IE)		2017/1/9 9:42
5841	Huizhao Wang	225	1 9.4.2.218.3	82	27	T	Y	82.27 9.4.2.218.3	When B1 = 0, B5 in Channel Width Field indicates support for 242/106/52/26 tones in 20MHz, not 40MHz for 2.4G	Change "40MHz", to "20MHz"		2017/1/9 9:42
5842	Huizhao Wang	225	1 9.4.2.218.3	82	30	T	Y	82.30 9.4.2.218.3	If B2, B3 & B4 are all zero, which means only 20MHz is supported, how can the B6 indicating support 242 tones in 40MHz and 80MHz mode?	I think the B6 means it only support 242-tones in 20MHz mode, so need to change the sentence to: "B6 to indicate only 242-tones are supported, when B2, B3 & B4 are all zeros"		2017/1/9 9:42
5843	Huizhao Wang	225	1 9.4.2.221	94	62	T	Y	94.62 9.4.2.221	MU EDCA timer field description is not clear	Change the sentence: "The MU EDCA Timer field indicates the duration of time, in units of 8 TUs, for which the provided MU EDCA parameters are used by an HE STA after reception of a Basic variant Trigger frame for the corresponding AC." To: "The MU EDCA Timer field indicates the duration of time, in units of 8 TUs, is used by an HE non-AP STA to disable EDCA function after reception of a Basic variant Trigger frame which contains User Info field AID matching its AID for the corresponding AC."		2017/1/9 9:42
5844	Huizhao Wang	225	1 9.4.2.222	95	22	T	Y	95.22 9.4.2.222	Missing description of how to update the Color Switch Countdown field	Add: If the Color Switch Countdown field value >0, then at the next TBTT, its value is decremented by 1 until it reachs 0.		2017/1/9 9:42
5845	Huizhao Wang	225	1 9.4.2.225	97	30	T	Y	97.30 9.4.2.225	The description of Quiet Time Period Offset field of Quiet Time Response element is wrong.	Replace: "Quiet Time Period Request", with "Quiet Time Period Response"		2017/1/9 9:42
5846	Huizhao Wang	225	1 9.4.2.223	95	48	T	Y	95.48 9.4.2.223	Quiet Time Period Setup element is not needed. Since the Quiet Time Period is negotiated through Request & Response alerady, this Setup element is redundent	Remove it from the text		2017/1/9 9:42
5847	Huizhao Wang	225	1 9.6.29.4	105	29	T	Y	105.29 9.6.29.4	Description of Quiet Time Period Response frame format is not correct: it is the response to the Quiet Time Request frame received, not the request to the Quiet Time Reqeust frame received	Change: "to request" to "to response"		2017/1/9 9:42
5848	Huizhao Wang	225	1 9.7.1	107	14	T	Y	107.14 9.7.1	MPDU Length field description in MPDU delimiter field does not mention HE	Add "HE" as following: "while for VHT and HE PPDUs, both subfields are used."		2017/1/9 9:42
5849	Huizhao Wang	225	1 9.7.1	108	19	T	Y	108.19 9.7.1	Need to mention that the 4095 size limitation of A-MSDU inside an A-MPDU does not apply to HE	Add "HE" as following: "The 4095-octects MPDU length limitation does not apply to A-MPDU carried in HE or VHT or DMG PPDUs"		2017/1/9 9:42
5850	Hyunhee Park	225	1 27.5.2.6.2	173	64	T	Y	173.64 27.5.2.6.2	If the Ack policy of QoS Null frame in random access is No ACK, the retransmission procedure cannot guarantee. For clarification, the Ack policy of QoS Null frame (e.g., BSR frame) should be the Normal Ack in random access.	Add below sentence in P174L6 (section 27.5.2.6.2 Random access procedure). "When a non-AP STA sends one or more QoS Null frames in an HE trigger-based PPDU in a random RU assigned by AID 0 in a Basic Trigger frame or in a BSRP Trigger frame, Ack Policy subfield of the QoS Null frame shall be set to Normal Ack."		2017/1/9 9:42

5851	Hyunhee Park	225	1 9.2.4.6.4.3	24	44	T	Y	24.44 9.2.4.6.4.3	In the Control information subfield of OMI, Channel Width is not distingushed for Rx or Tx. The Control information subfield of OMI should be revised (for example, (1) adding Tx Channel Width or (2) adding Rx/Tx indication, deleting Tx NSS, etc.)	Add Tx Channel Width in Fugure 9-15d.	2017/1/9 9:42
5852	Hyunhee Park	225	1 27.7.3.3	185	39	T	Y	185.39 27.7.3.3	P185L39 says "A TWT scheduled STA should not initiate trandsmission of frames to the TWT scheduling STA outside of broadcast TWT SPs and within trigger-enabled TWT SPs". In this case, the EDCA backoff procedure is unclear when the backoff count is finished outside of broadcast TWT SP and within trigger-enabled TWT SP. Therefore, the EDCA backoff procedure of tirgger-enabled TWT should be clarified.	Add below sentence in P185L41 for clarification of EDCA backoff procedure. "The backoff for the associated EDCAF should not countdown outside trigger-enable TWT SPs."	2017/1/9 9:42
5853	Hyunhee Park	225	1 27.2.3	152	20	T	Y	152.20 27.2.3	Basically, the HE STA enters the doze state outside trigger-enabled TWT SPs. In this case, HEMUEDCATimer doesn't need to countdown.	Add below sentence in P152P20 for clarification of HEMUEDCATimer. "The HEMUEDCATimer[AC] should not countdown outside trigger-enabled TWT SPs."	2017/1/9 9:42
5854	Hyunhee Park	225	1 27.2.3	152	11	T	Y	152.11 27.2.3	When the STA receives the Trigger frame from the AP, it shall update its CW, AIFSN, EDCA Timer in the most recently received MU EDCA Parameter Set element. In addition, when the STA sends the OMI A-Confrol field to change UL MU enable mode, in this case, it may update it CW, AIFSN, EDCA Timer in most recently received MU EDCA parameter set element. Because the UL MU enable means that it will be scheduled from the Trigger frame by the AP. Right now the change of MU EDCA parameter is quite restricted. If the STA sends the OMI A-Control field with UL MU enable, it means the STA wants to operate MU operation mode with MU EDCA parameter. Furthermore, in order to relieve of fairness between the legacy STA and MU operated STA, the MU operated STA should use MU EDCA parameter even though it requests UL MU enable mode by OMI A-Control field.	Add an update rule of CW, AIFSN and HEMUEDCATimer when an UL MU capable non-AP HE STA sends the OMI A-Confrol field to enable UL MU operation.	2017/1/9 9:42
5855	Hyunhee Park	225	1 9.2.4.6.4.4	25	9	E	N	25.09 9.2.4.6.4.4	Mistake in section number "see 9.31.4" for HE link adaptation.	Replace with "see 27.13 (Link adaptation using the HE variant HT Control field)".	2017/1/9 9:42
5856	Hyunhee Park	225	1 9.4.2.200	73	31	E	N	73.31 9.4.2.200	Mistake in word "STAT".	Replace with "STA"	2017/1/9 9:42
5857	Hyunhee Park	225	1 27.2.4	188	10	T	Y	188.10 27.2.4	TheTWT Flow Identifier for a Broadcast TWT element has several restrictions depending on the TWT Flow Identifier value. For flexibility, the Flow ID should be changed for each broadcast TWT SP. For this, the TWT Information frame described in 27.7.4 can be used for each broadcast TWT SP in order to change Flow ID.	Define the change procedure of Flow ID for broadcast TWT SP by using the TWT information frame.	2017/1/9 9:42
5858	Hyunhee Park	225	1 27.5.2.6.1	172	35	T	Y	172.35 27.5.2.6.1	For random access, an HE AP may transmit a Basic Trigger frame or a BSRP Trigger frame that contains one or more RUs. However, BQRP is not described for random access. When the assigned RUs for random access are busy, a BSR and BQR inforamtion should be sent in random access. In addition, if the channel status is busy, the BSR and BQR information can be sent in random access. Therefore, the BSR and BQR information can be aggregated.	Define an aggregation method for BSR and BQR information for random access.	2017/1/9 9:42
5859	Hyunhee Park	225	1 27.5.2.6.2	173	46	E	N	173.46 27.5.2.6.2	Mistake the sentence in L46	Please put a period between "AID value 0" and "If".	2017/1/9 9:42

5860	Hyunhee Park	225	1 27.5.2.6.2	173	54	T	Y	173.54 27.5.2.6.2	If the selected RU size for random access is quite small, the STA cannot send frames in random access through the selected RU. For clarification, an RU selection rule should be defined in random access. When the selected RU size is small in random access, how the STA operate to send frames? There are many candidate optoins, for example, re-selection, fragmentation, non-transmission, etc. For clarification, an RU selection rule should be defined in random access.	Define an RU selection rule considering the RU size in random access.		2017/1/9 9:42
5861	Hyunhee Park	225	1 10.22.2.8	133	31	T	Y	133.31 10.22.2.8	In 11ax, if the AP configures EDCA TXOP parameter by itself and it obtains a TXOP duration for DL/UL MU transmission, but without any restriction, the legacy STAs associated in the BSS and the OBSS (non-)AP STAs may suffer from starvation because of the excessive long TXOP duration. Especially in dense environment, the fairness problem of OBSS STAs can be critical when the TXOP duration is delermined by only the AP without any restriction. Therefore the MU TXOP Limit should be defined. The MU TXOP Limit should be defined. Since the multi-TID aggregation should be permitted within not exceeded the MU TXOP Limit. E.g., the multi-TID aggregation should be permitted within not exceeded the MU TXOP limit. In addition, if the AP is a TXOP holder and it performs multi-TID aggregation and/or MU transmission, in this case the TXOP holder should not be	Define the MU TXOP Limit.		2017/1/9 9:42
5862	Hyunhee Park	225	1 9.4.2.220	93	46	E	N	93.46 9.4.2.220	Mistake in "Octets" in Figure 9-589cu.	Replace with "Bits" in Figure 9-589cu.		2017/1/9 9:42
5863	Hyunhee Park	225	1 27.14	201	11	T	Y	201.11 27.14	A STA may enter the Doze state for the TXOP duration when it receives a frame which is not intended to it in 11ac Spec. However, if a STA enters the Doze state for a TXOP duration after receiving an OBSS frame, it may miss an intra-BSS frame intended for it. Moreover, neither BSS color nor TXOP duration field is defined in VHT SIG field, a STA cannot distinguish OBSS frame from intra-BSS frame and cannot enter the TXOP PS after receiving only VHT preamble. In 11ax, since the BSS color is defined, the TXOP PS should be defined for more efficient power save in 11ax. HE TXOP power save mechanism should be defined as that an HE STA has no intended frame to receive for a TXOP to enter the Doze state, and sleep until the end of the TXOP in 11ax.	Define an HE TXOP PS.		2017/1/9 9:42

5864	Hyunhee Park	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	The OBSS_PD SR backoff procedure was passed as when the receiving STA validates the conditions for spatial reuse operation by using OBSS_PD level, it shall invoke an SR backoff procedure by resuming the backoff counter countdown for the associated EDCAF. For clarification, an SRP-based SR backoff procedure should be defined. In the spec draft, SR backoff procedure is incomplete. Especially P190L50 says "SR Backoff procedure for SR delayed case". For clarification, the backoff procedures for SR delayed case and SR restricted case, respectively.	Define the SRP-based SR backoff procedure.	2017/1/9 9:42
5865	Hyunhee Park	225	1 9.4.2.200	73	14	E	N	73.14 9.4.2.200	Mistake in section number "25.14 (Link adapration using the HE variant HE Control field)".	Replace with section number "25.14 (Link adapration using the HE variant HE Control field)".	2017/1/9 9:42
5866	Hyunhee Park	225	1 9.4.2.200	73	40	E	N	73.40 9.4.2.200	Mistake in section number "25.14 (Link adapration using the HE variant HE Control field)".	Replace with section number "25.14 (Link adapration using the HE variant HE Control field)".	2017/1/9 9:42
5867	Hyunhee Park	225	1 27.14.2	200	16	E	N	200.16 27.14.2	Figure 27-7 is not readable.	Please put the high resolution figure similar with Figure 27-5.	2017/1/9 9:42
5868	Hyunhee Park	225	1 27.6.2	177	52	E	N	177.52 27.6.2	Figure 27-3 is not acceptable in the spec.	Please change the figure with block and white color similar with Figure 27-5.	2017/1/9 9:42
5869	Hyunhee Park	225	1 27.6.2	178	18	E	N	178.18 27.6.2	Figure 27-4 is not acceptable in the spec.	Please change the figure with block and white color similar with Figure 27-5.	2017/1/9 9:42
5870	James June Wang	225	1 27.9.2.1	192	3	T	Y	192.03 27.9.2.1	A STA can select an OBSS_PDlevel during its operation under SR mode. This level can be dynamically adjusted or can be static." Can OBSS_PDlevel be adjusted lower (from a higher level) once countdown starts ? This can allow a STA to transmit at a higher transmit power in the end	Add a restriction that OBSS_PDlevel shall not be adjusted lower once backoff has started with a higher OBSS_PDlevel.	2017/1/9 9:42
5871	James June Wang	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	values 1 to 14 are missing in table for Spatial reuse	Use Set to value 1 to 14 corresponding to SRP value (see Table 28-19 (Spatial Reuse subfield encoding)) for SRP-based SR operation.	2017/1/9 9:42
5872	James June Wang	225	1 28.3.10.7.2	276	40	T	Y	276.40 28.3.10.7.2	In Spatial Reuse field, value 1 to 14 are missing	Use Set to value 1 to 14 corresponding to SRP value (see Table 28-19 (Spatial Reuse subfield encoding)) for SRP-based SR operation.	2017/1/9 9:42
5873	James June Wang	225	1 27.9	192	27	T	Y	192.27 27.9	Missing description of SRP-based SR Operation (27.9.3)	Add description of SRP-based SR operation (27.9.3)	2017/1/9 9:42
5874	James June Wang	225	1 10.43.1	137	47	E	Y	137.47 10.43.1	"Demand TWT indicates tha the transmitting STA will accept only the indicated TWT parameters for a TWT agreement." typo. Should be "Demand TWT indicates that"	Change "tha" to "that"	2017/1/9 9:42
5875	James June Wang	225	1 28.3.17.6.4	349	21	T	Y	349.21 28.3.17.6.4	expression max(-72dBm, OBSS_PD) should be max(-72 dBm, OBSS_PDlevel)	as indicated in comment	2017/1/9 9:42
5876	James June Wang	225	1 28.3.17.6.4	349	36	T	Y	349.36 28.3.17.6.4	expression max(-72 dBm, OBSS_PD) should be max(-72dBm, OBSS_PDlevel (40MHz)).	as indicated.	2017/1/9 9:42
5877	James June Wang	225	1 28.3.17.6.4	349	51	T	Y	349.51 28.3.17.6.4	expression max(-69dBm, OBSS_PD) should be changed to max(-72dBm, OBSS_PDlevel (80MHz))	as indicated in comment	2017/1/9 9:42

5878	James June Wang	225	1 28.3.17.6.3	348	37	T	N	348.37 28.3.17.6.3	Table 28-43 requires that a STA transmits 40MHz, or 80MHz, 160MHz bandwidth to satisfy the lowest CCA level of -82 dBm. The transmit power density of 40, 80, or 160MHz is proportionally lower by 3, 6, 9 dB relative to that of the 20MHz transmit bandwidth. The lowest power spectral density does not reach as far as 20MHz transmit bandwidth. For STA transmitting higher bandwidth, a higher CCA level than Table28-43 by 3, 6, 9 dB depending on transmit bandwidth is 40, 80, or 160MHz should be allowed to use. If the dynamic secondary channel bandwidth detects secondary channel CCA busy, and the transmit bandwidth is reduced, the same power density as he wider intended bandwidth should be used.	Modify Table 28-43 based on intended transmit bandwidth as commented.		2017/1/9 9:42
5879	James Lepp	225	1 11.49.1	115	29	E	N	115.29 11.49.1	Subclause heading "AID assign rule" should be "AID assignment"	AID assignment	2017/1/9 9:42
5880	James Lepp	225	1 9.3.1.9.1	34	10	T	Y	34.10 9.3.1.9.1	After applying the changes described for Figure 9-33, the B5 will be missing. Is the intended change to have "BA Type" be bits 1-5, or have "Reserved" be bits 5-11?	Assign bit 5-11 as reserved.	2017/1/9 9:42
5881	James Lepp	225	1 9.2.4.2	20	1	T	Y	20.01 9.2.4.2	If you're using longer AIDs in 11ax, should table 9-5 be updated?	Make the necessary 11ax related changes to table 9-5 that 11ah previously modified regarding AIDs. (Its not currently in the 11ax draft.)	2017/1/9 9:42
5882	James Lepp	225	1 27.2.2	150	43	E	N	150.43 27.2.2	The sentences in the bullet lists in this subclause sometimes end with a period and sometimes do not.	Terminate sentences in the bullet lists consistently and in line with the style guide.	2017/1/9 9:42
5883	James Lepp	225	1 28.1.1	210	53	E	N	210.53 28.1.1	Don't refer to "Clause 28 features" in clause 28. This is a strange self reference.	Change "An HE STA may support the following Clause 28 features" to "An HE STA may support the following features"	2017/1/9 9:42
5884	James Lepp	225	1 4.3.14a	9	26	T	Y	9.26 4.3.14a	There are inconsistent statements about 40 MHz operation in the 2.4 GHz band. 4.3.14a: "In the 2.4 GHz band, ... An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" 8.1.1: "An HE AP may support ... 40 MHz channel width in the 2.4 GHz band"	Decide on whether 40MHz channel width is supported in 2.4 GHz band for HE STA and make that consistent throughout the amendment.	2017/1/9 9:42
5885	James Yee	225	1 28.3.3.1	228	17	E	Y	228.17 28.3.3.1	Typo in Reference to Table 28-15.	Reference to Table 28-15 should be reference to Figure 28-1 below.	2017/1/9 9:42
5886	James Yee	225	1 28.1.1	209	64	E	Y	209.64 28.1.1	The "and" in "An HE STA refers to an AP STA and a non-AP STA" implies a HE STA functions as two STAs.	Change the "and" to "or".	2017/1/9 9:42
5887	James Yee	225	1 27.2.3	152	13	E	Y	152.13 27.2.3	HEMUEDCATimer is undefined. There is just MU EDCA Timer defined in 9.4.2.221	Replace HEMUEDCATimer with "MU EDCA Timer".	2017/1/9 9:42
5888	James Yee	225	1 27.2.3	152	37	E	Y	152.37 27.2.3	"Parameters" should be "Parameter Record"	As suggested.	2017/1/9 9:42
5889	James Yee	225	1 27.2.3	152	30	E	Y	152.30 27.2.3	The 2nd sentence of the paragraph describing the EDCA Parameter Set Update Count is a repeat of the description in 9.4.2.29 (802.11-2016) and is unnecessary.	Delete the sentence.	2017/1/9 9:42
5890	James Yee	225	1 27.7.2	181	49	E	Y	181.49 27.7.2	Typo in Reference to 11.2.2.2.6.	Should reference 11.2.2.6, not 11.2.2.2.6	2017/1/9 9:42
5891	James Yee	225	1 9.2.4.6.4	22	38	E	Y	22.38 9.2.4.6.4	The heading of this section should not be an yet to be defined abbreviation.	Change "A-Control" to "Aggregated Control".	2017/1/9 9:42
5892	James Yee	225	1 9.4.2.200	69	69	E	Y	69.69 9.4.2.200	Here and elsewhere, "field is 1" should be "field is set to 1"	As suggested.	2017/1/9 9:42
5893	James Yee	225	1 9.4.2.218.2	76	47	E	Y	76.47 9.4.2.218.2	The width of B24 should be 1-bit, not 4.	As suggested.	2017/1/9 9:42
5894	James Yee	225	1 9.4.2.218.2	78	38	E	Y	78.38 9.4.2.218.2	In the description of "All ACK Support", "is the" should be "if the"	As suggested.	2017/1/9 9:42
5895	James Yee	225	1 9.4.2.218.2	78	41	E	Y	78.41 9.4.2.218.2	In the description of "All ACK Support", reference to "25.4.2" should be to "27.4.2"	As suggested.	2017/1/9 9:42
5896	James Yee	225	1 9.4.2.218.2	80	41	E	Y	80.41 9.4.2.218.2	Typo: "the the" should be "the"	As suggested.	2017/1/9 9:42

5897	James Yee	225	1 9.4.2.221	94	37	E	Y	94.37 9.4.2.221		"Parameters" should be "Parameter Record"	As suggested.	2017/1/9 9:42
5898	James Yee	225	1 27.16.3.2	207	57	E	Y	207.57 27.16.3.2		"Quite" should be "Quiet"	As suggested.	2017/1/9 9:42
5899	James Yee	225	1 28.1.1	209	64	E	Y	209.64 28.1.1		"and" should be "or"	As suggested.	2017/1/9 9:42
5900	James Yee	225	1 28.3.3.1	228	17	E	Y	228.17 28.3.3.1		Reference to Table 28-15 should be to Figure 28-1.	As suggested.	2017/1/9 9:42
5901	James Yee	225	1 27.5.2.2.2	166	61	E	Y	166.61 27.5.2.2.2		"Type Dependent" should be "Trigger Dependent"	As suggested.	2017/1/9 9:42
5902	James Yee	225	1 10.9	127	26	E	Y	127.26 10.9		Reference to "10.31.4" should be to "27.13"	As suggested.	2017/1/9 9:42
5903	James Yee	225	1 9.2.4.6.4.4	25	9	E	Y	25.09 9.2.4.6.4.4		Reference to "9.31.4" should be to "27.13"	As suggested.	2017/1/9 9:42
5904	James Yee	225	1 9.4.2.200	73	14	E	Y	73.14 9.4.2.200		Reference to "25.14" should be to "27.13"	As suggested.	2017/1/9 9:42
5905	James Yee	225	1 11.1.3.10	141	50	T	Y	141.50 11.1.3.10		Rather than stating different elements may be carried, it should be specified what are identical elements and contents that must be carried in both types of Beacon frames.	As suggested.	2017/1/9 9:42
5906	James Yee	225	1 27.2.3	152	13	T	Y	152.13 27.2.3		By when should the non-HE STA update its QoS state variables based on the most recent MU EDCA Parameter Set element values? It seems open ended to just require "shall update".	Change "shall update" to "shall, before it transmits the nex PPDU of an affected AC, update"	2017/1/9 9:42
5907	James Yee	225	1 27.7.2	180	58	T	Y	180.58 27.7.2		It is not very clear which rules are superceded by which even though the text only says "respective rules".	Please clarify.	2017/1/9 9:42
5908	James Yee	225	1 27.2.3	152	30	G	Y	152.30 27.2.3	5889	The 2nd sentence of the paragraph describing the EDCA Parameter Set Update Count is a repeat of the description in 9.4.2.29 (802.11-2016) and is unnecessary.	Delete the sentence.	2017/1/9 9:42
5909	James Yee	225	1 9.4.2.219	91	44	T	Y	91.44 9.4.2.219		This paragraph starting with "The BSS Color field" is largely a repeat of the previous paragraph. Delete the previous paragraph and replace "is used" with "indicates that there is no BSS Color for this BSS and".	As suggested.	2017/1/9 9:42
5910	James Yee	225	1 9.4.2.219	92	19	T	Y	92.19 9.4.2.219		Having the AP 'recommend' an action is vague and anthropomorphic. Is the intent here to indicate that by setting the value to 1 then the STAs may "disable the use of BSS Color ..."? If yes, then that should be stated clearly.	As suggested.	2017/1/9 9:42
5911	James Yee	225	1 9.4.2.221	94	31	G	Y	94.31 9.4.2.221		The 2nd sentence of the paragraph describing the EDCA Parameter Set Update Count is a repeat of the description in 9.4.2.29 (802.11-2016) and is unnecessary.	Delete the sentence.	2017/1/9 9:42
5912	James Yee	225	1 9.4.2.221	94	30	T	Y	94.30 9.4.2.221		"same as the field defined in 9.4.1.17 (QoS Info field)" should more specifically refer to "same as the QoS Info field defined in 9.4.1.17 (QoS Info field) when sent by the AP"	As suggested.	2017/1/9 9:42
5913	James Yee	225	1 27.5.2.2.2	166	62	T	Y	166.62 27.5.2.2.2		I suppose setting the TID Aggregation Limit to 1 means only 1 TID is used and there is no aggregation, but it seems simpler to assign a value of 0 for a STA that has indicated no support for Multi-TID.	As suggested.	2017/1/9 9:42
5914	James Yee	225	1 9.31.2.3	41	60	T	Y	41.60 9.31.2.3		How are multiple User Info fields carried in the Trigger Frame when sent via broadcast? Is there a limit to the number of AID12 values can be present? What if the same AID12 value appears more than once? It's also not clear how multiple User Info fields are parsed by the recipient since the number of User Info fields present is not indicated.	Please clarify. For simplicity limit the number of User Info fields.	2017/1/9 9:42
5915	James Yee	225	1 9.31.2.3	47	5	T	Y	47.05 9.31.2.3		"DCM is not be used" should be clarified to say "DCM is not to be used with the HE trigger-based PPDU response".	As suggested.	2017/1/9 9:42

5916 James Yee	225	1 27.13	199	1	T	Y	199.01 27.13	The text refers to "The HE-MCS subfield of the MFB subfield of HE link adaptation field" but there is no MFB subfield defined in the HE Link Adaptation field. The overall description of the HE Link Adaptation procedure is unclear.	Please clarify.	2017/1/9 9:42
5917 James Yee	225	1 9.4.2	67	1	T	Y	67.01 9.4.2	With the introduction of new features such as OFDMA and UL MU MIMO, the existing BSS load elements (9.4.2.160 & 9.4.2.26), which address STA numbers, primary/secondary channel busy condition and DL MU-MIMO underutilization (11ac) are not sufficient for addressing the BSS load status in a 11ax BSS. A further enhanced BSS Load element needs to be defined.	Add a new information element to define 11ax BSS Load. The new IE shall address utilization status of OFDMA as well as UL/DL MU MIMO, as well as provisions to allow future extensions.	2017/1/9 9:42
5918 James Yee	225	1 9.4.2	67	1	T	Y	67.01 9.4.2	Four PPDU formats are defined for HE operations, but current power capability element (9.4.2.15 in 802.11-2016) defines only one set of max/min power for all types of PPDU. The power capability element should be enhanced to provide different PPDU formats to identify maximum and minimum transmit power.	Modify current transmit power capability element (section 9.4.2.15 in 802.11-2016) to accommodate different HE PPDU formats. Since 11ax AP needs more information about STAs' transmit power capabilities, in addition to default power accuracy defined along with device's category, the element should allow reporting with more accurate transmit power accuracy achievable by the STA.	2017/1/9 9:42
5919 James Yee	225	1 9.4.2.139	68	56	T	Y	68.56 9.4.2.139	Level 3 dynamic fragmenation is described in 27.3.3.4, 27.3.4.4 and elsewhere in this draft, but is not mentioned in the description of HE Fragmentation Operation of this section. This inconsistency needs to be corrected.	Add statements for setting the HE Fragmentation Operation field to Level 3 dynamic fragmentation. Or, remove Level 3 dynamic fragmentation from the draft.	2017/1/9 9:42
5920 James Yee	225	1 9.4.2.218.4	86	44	T	Y	86.44 9.4.2.218.4	In Figure 9-589cm, there is no definition of m and n in the text that follows.	Add explanation of n and m in Figure 9-589cm to the text of section 9.4.2.218.4	2017/1/9 9:42
5921 James Yee	225	1 9.4.2.219	92	40	T	Y	92.40 9.4.2.219	In "The subfield set to 0, if the HE AP transmits beacons in one PHY format,", it is not clear which PHY format is to be used.	Add text to explain what "one PHY format" means and if any specific format is required.	2017/1/9 9:42
5922 James Yee	225	1 9.4.2.219	92	7	T	Y	92.07 9.4.2.219	The meaning of "corresponds" here is not clear. Although the term is used in 11.1.3.8 (of 802.11-2016 and the proposed changes in this draft), even the usage there is vague and should be defined more clearly in terms of multiple BSSID set.	Clarify what actions or properties are required for an AP to "correspond"	2017/1/9 9:42
5923 James Yee	225	1 9.4.2.219	92	11	T	Y	92.11 9.4.2.219	The definition of MaxBSSID indicator is not clear. Should properly reference to 9.4.2.46 and clearly provide HE AP behavior exceptions.There could also be multiple Multiple BSSID elements from multiple APs or the HE AP has its own Multiple BSSID element.	Clarify the defintion of MaxBSSID idicator and how to set it up when there are multiple sources of Multiple BSSID elements.	2017/1/9 9:42
5924 James Yee	225	1 9.4.2.219	92	14	T	Y	92.14 9.4.2.219	The non-zero value here is the same as the MaxBSSID from the Multiple BSSID element? The setting of a non-zero value here contradicts the value setting of MaxBSSID indicator defined in line 11 in the same paragraph.	Clarify if any non-zero value can be set or the non-zero value needs to be set as the same as the MaxBSSID indicator.	2017/1/9 9:42
5925 James Yee	225	1 9.4.2.219	92	7	E	Y	92.07 9.4.2.219	The format and flow of this paragraph describing MaxBSSID Indicator and Tx BSSID Indicator are a bit convoluted. Please improve.	As suggested.	2017/1/9 9:42
5926 James Yee	225	1 9.3.1.9.7	38	12	T	Y	38.12 9.3.1.9.7	The meaning of "all the MPDUs carried in the eliciting A-MPDU" is not clear. Does it include all MPDUs of any TIDs in the eliciting A-MPDU?	Please clarify.	2017/1/9 9:42
5927 James Yee	225	1 27.3.3.2	153	57	T	Y	153.57 27.3.3.2	The text only specifies MSDU. Is MMPDU also allowed for Level 1 Dynamic Fragmentation?	Please clarify.	2017/1/9 9:42

5928	James Yee	225	1 27.3.3.4	154	36	T	Y	154.36 27.3.3.4	Level 3 Dynamic fragmentation use is allowed under many constraints such as HT immediate ack and AMPDU sequence number range. The extra L3 Frag negotiation needed increases overhead. However, the usage scenarios and potential gain are not clear.	Provide the level 3 dynamic fragmentation usage scenarios and justify benefit/gain worthy of the complexity. Otherwise, suggest to remove level 3 dynamic fragmenation.	2017/1/9 9:42
5929	James Yee	225	1 27.3.4.1	155	39	T	Y	155.39 27.3.4.1	The receiving STA supporting dynamic defragmentation does not need to follow receiver timer rules defined in 10.6. Does this mean a receiver can has its own time-out mechanism for defragmentation? If no, what time-out rules shall the receiver follow?	Please clarify.	2017/1/9 9:42
5930	James Yee	225	1 27.2.2	150	22	T	Y	150.22 27.2.2	With more and more 802.11 devices operating in multiple modes, a STA may grab the channel and allocate partial or whole TXOP time for peer-to-peer communication or other proprietary usage, so that inter BSS STAs receiving the NAV request may not always be forbidden to access the channel. However, in the current text, STAs that receive any NAVs are not able to access the channel. A STA can give an indication showing that its intention to grab the channel does not disable channel access for inter BSS STAs. To improve overall network utilization, it is required to add such indication to enable inter-BSS NAV only mechanism.	Suggest adding mechanisms to enable single NAV (inter-NAV or intra-NAV) update, such as an additional PHY signaling or a specific MAC frame.	2017/1/9 9:42
5931	James Yee	225	1 10.3.2.4	115	31	T	Y	115.31 10.3.2.4	NAVTimeout is not defined for MU-RTS.	Amend corresponding statement in 802.11-2016 with necessary changes to include the case for MU-RTS.	2017/1/9 9:42
5932	James Yee	225	1 10.3.2.8a.2	117	5	T	Y	117.05 10.3.2.8a.2	It is not clear that if MU-RTS is sent on multiple 20MHz channels but CTS is only received on serveral of them, can the transmitter of MU-RTS proceed with the frame exchange sequence on the channels without a corresponding CTS reception?	Suggest that those channels without CTS reception corresponding to the MU-RTS should not to be used for transmission during the NAV obtained. Otherwise, statements should be added in the spec to explicitly say the transmission of MU-RTS on those channel is still interpreted as successful.	2017/1/9 9:42
5933	James Yee	225	1 10.3.2.8a.2	117	25	T	Y	117.25 10.3.2.8a.2	The specs says a MU-RTS receiver shall only respond to a CTS frame if the RU allocation subfield in the User Info of the received MU-RTS is either the primary 20 MHz channel, primary 40 MHz channel, primary 80 MHz channel, 160 MHz channel, or 80+80 MHz channel of the MU-RTS receiver. But such requirement does not exist for the MU-RTS transmitter in 10.3.2.8a.2. It is also not clear if such a requirement implies the secondary channel (or any RU on the secondary channl) of a MU-RTS receiver is never used during the MU-RTS reservation.	Either remove this requirement on the receiver side or add corresponding requirement on the transmiter side.	2017/1/9 9:42
5934	James Yee	225	1 10.3.2.8a.3	117	39	T	Y	117.39 10.3.2.8a.3	The spec implies that the reason why the data rate used for the non-HT PPDU reponse shall be 6Mb/s is provided in 17.1.1. But such explanation does not exist there.	Either remove the reference link or add corresponding explanation in 17.1.1.	2017/1/9 9:42
5935	James Yee	225	1 10.3.2.10.1	118	55	E	Y	118.55 10.3.2.10.1	Space missing before "that" in "Responses to A-MPDUs within a VHT MU PPDU or an HE MU PPDU for DL transmission_that are not"	As suggested	2017/1/9 9:42
5936	James Yee	225	1 27.9.2.2	192	21	E	Y	192.21 27.9.2.2	A conjunction is missing between "The STA may increase the OBSS_PDlevel during the backoff procedure" and "its maximum transmit power being adjusted as defined above".	Add "such that" before "its".	2017/1/9 9:42

5937 James Yee	225	1 27.5.2.3	167	30	T	Y	167.30 27.5.2.3	The spec says the backoff procedure described in 9.22.2.2 applies to UL MU but there is nothing about UL MU in 9.22.2.2 at this point so it is not clear which of thoes rules apply. For example in 9.22.2.2 (10.22.2.2 in 802.11mc) it says "an HT STA may retransmit unacknowledged MPDUs within the same TXOP or in a subsequent TXOP". Does this also apply to an HE STA?	Please clarify.		2017/1/9 9:42
5938 James Yee	225	1 27.14.1	199	12	T	Y	199.12 27.14.1	Besides intra-PPDU power save for HE non-AP STAs, allowing them to enter doze mode till the end of an inter-BSS PPDU TXOP with received power > OBSS_PDmax may further save some power.	As suggested		2017/1/9 9:42
5939 James Yee	225	1 27.11.6	198	34	T	Y	198.34 27.11.6	More information should be provided regarding the behavior of SR_Restricted.	As suggested		2017/1/9 9:42
5940 James Yee	225	1 28.3.10.7.2	274	7	T	Y	274.07 28.3.10.7.2	The spec provided two reference sections (27.9 and 27.11.6) for "SRP-based spatial reuse" but nothing about "SRP-based spatial reuse" can be found there. The definition of "SRP-based spatial reuse" is not clear	Please clarify.		2017/1/9 9:42
5941 James Yee	225	1 28.3.10.7.2	274	12	T	Y	274.12 28.3.10.7.2	It is not clear what exactly the behavior of "SR_Delay" is and more information should be provided in 27.9.2.1 and 27.11a.	Please clarify.		2017/1/9 9:42
5942 James Yee	225	1 28.3.10.7.2	282	29	T	Y	282.29 28.3.10.7.2	Definition of SRP, TX PWRAP and Acceptable Receiver Interference levelAP are not provided.	Please clarify.		2017/1/9 9:42
5943 James Yee	225	1 27.5.1.3	163	27	T	Y	163.27 27.5.1.3	The spec says "A non-AP STA reports its channel availability information (unsolicited BQR) to the AP to which it is associated using the BQR A-Control field of frames it transmits as defined below...". It is not clear what is the definition of "a channel is available". For example, does it requires CCA idle during an interval of PIFS immediately in prior?	Please clarify.		2017/1/9 9:42
5944 James Yee	225	1 27.5.1.3	163	46	T	Y	163.46 27.5.1.3	The spec says "The STA shall include in the HE trigger-based PPDU one or more QoS Null or QoS Data frames containing the BQR A-Control field with the channel availability information...". It is not clear what is the definition of "a channel is available" in this context.	Suggest to generate the response according to inter-NAV.		2017/1/9 9:42
5945 James Yee	225	1 27.5.1.3	163	46	T	Y	163.46 27.5.1.3	The spec says "The STA shall include in the HE trigger-based PPDU one or more QoS Null or QoS Data frames containing the BQR A-Control field with the channel availability information of the STA ...". It should also mention if the BQR A-Control field shall be the same or what happens if they are not exactly the same (e.g. the last BQR A-Control receveid shall be used).	As suggested		2017/1/9 9:42
5946 James Yee	225	1 9.2.4.6.4.2	24	21	E	Y	24.21 9.2.4.6.4.2	The definition of Fval for TRSSI calculation is missing.	Please clarify.		2017/1/9 9:42
5947 James Yee	225	1 10.9	127	47	T	Y	127.47 10.9	The spec says "At most one Control subfield with a given Control ID value shall be present in the A-Control field of QoS Data or Management frames carried in an (A-)MPDU". It is not clear what to do if more than one A-Control field of a given Cotnrol ID subfield is received in QoS Data or Management frames in an (A-)MPDU.	Please clarify.		2017/1/9 9:42

5948 James Yee	225	1 27.8.2	188	48	T	Y	188.48 27.8.2	The information provided by ROM is partially overlapping with the informatiom from BQR. It is not clear if there is a rule how one relates to the other.	Please clarify.	2017/1/9 9:42
5949 James Yee	225	1 27.8.2	189	3	T	Y	189.03 27.8.2	The spec says "The OMI responder shall use the values indicated by the Rx Channel Width and Rx NSS subfields of the most recently received OMI A-Control field sent by the OMI initiator to send PPDUs to the OMI initiator in subsequent TXOP". It seems the channel availability information obtained from BQR is not considered here.	Please clarify.	2017/1/9 9:42
5950 James Yee	225	1 9.4.2.224	96	53	T	Y	96.53 9.4.2.224	The spec requires the Quiet Period Offset field is set to the offset of the start of the first quiet period from the Quiet Time Period Request. But since Quiet Time Period Request element defines a periodic sequence of quiet periods, it seems easier for implementations to just define an absoulte anchor point for the first quiet period instead of using an offset.	As suggested	2017/1/9 9:42
5951 James Yee	225	1 9.4.2.225	97	30	T	Y	97.30 9.4.2.225	Since the Quiet Time Period is periodic, it is not clear why in the response element, the first apperance of this period is expressed in offest and not an absolute time. It should be easier for implementations to just define an absoulte anchor point for the first quiet period instead of using an offset.	As suggested	2017/1/9 9:42
5952 James Yee	225	1 27.16.3.2	207	15	T	Y	207.15 27.16.3.2	The spec only provides the methods to setup new Quiet Time Periods. But once a periodic Quiet Time Period is configured, there should be some ways to cancel it when necessary.	As suggested	2017/1/9 9:42
5953 James Yee	225	1 28.3.14.3	342	20	T	Y	342.20 28.3.14.3	Table 28-40 currently specifies two classes of devices based on TX power and RSSI measurement accuracy, with +/- 3dB as the smallest minimum requirement. However, based on current technologies, we believe 3 dB is too large for devices targetting high performance.	Suggest to add a new A+ device category whose tranmit power and RSSI measurment accuracy minimum requirement is +/- 2 dB. Accordingly, the 'Device Class' field in the HE PHY Capabilities IE in 9.4.2.218.3 will require 1 more bit to express the new device class.	2017/1/9 9:42
5954 James Yee	225	1 28.3.14.3	342	53	T	Y	342.53 28.3.14.3	The carrier sense requirement is -82 dBm and -82 dBm is also the receiver minimum input level sensitivity of lowest MCS in the draft spec. The CFO/SFO requirements shown here are only defined at receive power of -60 dBm, which is not enough to help receivers usually decoding packets with power much lower than -60 dBm.	Suggest to add more CFO/SFO constraints for power below -60 dBm, such as -72 dBm, -82 dBm and even lower power.	2017/1/9 9:42
5955 James Yee	225	1 9.3.1.23	42	61	T	Y	42.61 9.3.1.23	Is it explicitly disallowed for two Trigger frames to be sent in succession? If not, then the benefits of the Cascade Indication feature is unclear.	Remove the Cascade Indication feature.	2017/1/9 9:42
5956 James Yee	225	1 9.3.1.23	42	32	T	Y	42.32 9.3.1.23	For BSR/BQR, trigger frame can use the type of BSRP/BQRP to query the necessary information by AP itself. However, there is no trigger type for "UL power headroom. With this type, AP can decide when to query A-Control with this value by itself, rather than event-driven report by STA.	Considering defining a new trigger type for "UL power headroom".	2017/1/9 9:42
5957 Jarkko Kneckt	225	1 27.7	179		T	Y	179.00 27.7	The BC TWT is not optimized for stand-by power save where the non-AP STA maintains association with the AP in minimum overhead and does not have DL or UL data to transmit in every TWT SP.	Please define a TWT Flow Identifier for broadcast TWT that is optimized to maintain association with minimum power consumption in non-AP STA. Alternatively optimize TWT Flow Identifiers 1 and 2 for stand-by power save.	2017/1/9 9:42

5958	Jarkko Kneckt	225	1 11.2.2.6	141	12	T	Y	141.12 11.2.2.6	The use of PS-Poll frame together with the TWT power save mechanism could be clarified and justified. The PS-Poll should be used only with announced TWT. The TWT SP initiated by PS-Poll should be terminated like any TWT SP, i.e. no data should be transmitted outside of TWT SP.	Please clarify how TWT and PS-Poll frames are used. It would make sense that if a PS-Poll frame is transmitted within the TWT SP and termiantion of the TWT SP also cancels the solicited DL PPDU transmission regardless if it has not been yet transmitted.		2017/1/9 9:42
5959	Jarkko Kneckt	225	1 9.4.2.200	72	26	T	Y	72.26 9.4.2.200	The Triggered TWT SP should define that AP shall transmit a Trigger frame or a frame with Reverse Direction Grant indication in the Triggered TWT SP. In both cases the AP schdules UL transmission resources for the STA. The transmission of the frame with Reverse Direction Grant is useful when data transmission is random or the AP does not have precise knowledge of the amount of UL data that a STA has or when few STAs wake up for the TWT SP. The Trigger frame and frame with RDG enables the AP to allocate transmission resource for the non-AP STA . When frame with RDG is transmitted, the transmission resources are not wasted, if the non-AP STA does not have traffic to transmit for the whole allocated resource.	Please change the text p.72, l.26 to read:" includes Trigger frames or farmes with reverse direction grant. The Trigger field is set to 1 to indicate that at least one Trigger frame or a frame with reverse direction grant is transmitted during the TWT SP."		2017/1/9 9:42
5960	Jarkko Kneckt	225	1 10.9	127	37	T	Y	127.37 10.9	The guidance for the reverse direction protocol A-Control field use is missing from the clause.	Please add the following sentence to line 37: "A value of 6 in the Control ID subfield when the transmitting STA follows the reverse direction protocol procedure as described in 10.28 (Reverse Direction Protocol)."		2017/1/9 9:42
5961	Jarkko Kneckt	225	1 9.2.4.6.4.1	23	37	E	N	23.37 9.2.4.6.4.1	The content of the Control Information subfield for reverse direction protocol is not provided	Please add to Table 9-18a to Content of the RDP." See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"		2017/1/9 9:42
5962	Jarkko Kneckt	225	1 9.2.4.6.4	22	38	E	N	22.38 9.2.4.6.4	The maximum number of title levels in 802.11 specifications is 5. A-Control field is currently using 6 title levels.	Please change the A-Control field to use five title levels.		2017/1/9 9:42
5963	Jarkko Kneckt	225	1 27.7.1	179	60	T	Y	179.60 27.7.1	A STA should be aware of broadcast TWTs with TWT Flow identifier value 3. The AP may use this type of TWT Flows to organize opportunistic power save for all STAs. It is beneficial that STAs know how long they may be in Doze state and when the TIM or FILS discovery frames will be transmitted. Also a STA should be aware of the timing of hte UL OFDMA random access opportunities.	Please change the text in p.179 l.60: "STAs should be aware of the broadcast TWTs with TWT Flow Type values 2 and 3 in order to knw the Trigger frame transmissions for the UL OFDMA random access and to benefit from the opportunistic power save. The STAs need not be mad aware of other TWT values..."		2017/1/9 9:42
5964	Jarkko Kneckt	225	1 27.7.3.1	182	31	T	Y	182.31 27.7.3.1	The broadcast TWT element may be present in the TIM frame and in FILS Discovery frame, not only in the Beacon and Probe response. The individually addressed and broadcast addressed probe response frames have the same alternatives for the transmission payload. It is not clear why the TWT element cannot be transmitted in the individually addressed probe response. In many cases the scanning STAs receive both broadcast and individually addressed probe responses.	Please change the text: "... broadcast TWT element in TIM frame, FILS Discovery frame, and in Probe Response frame."		2017/1/9 9:42
5965	Jarkko Kneckt	225	1 10.12	128	8	E	N	128.08 10.12	frame is unclear definition.	Change: "within a single QoS Data frame" to: "within a single QoS Data MPDU"		2017/1/9 9:42

5966	Jarkko Kneckt	225	1 27.7.2	180	49	T	Y	180.49 27.7.2	The TWT Channel subfield should not force the STA to operate only in 20 MHz mode during the TWT SPs. If TWT SPs with different TWT Channel values overlap it is not clear how STA operates. Should the STA operate in multiple 20 MHz channels or in the larger BW. The RX Operating mode also coordinates the BW of the STA. When BW signaling through ROMI and TWT signaling complicates the BW handling.	Please clarify whether the TWT Channel define the primary channel of the STA for the TWT duration. Please clarify what is meant by 20 MHz operation. Please clarify how a STA operates if it is served by two or more overlapping TWT SPs with different TWT Channel values. Please clarify how ROMI and TWT Channel signaling interact.		2017/1/9 9:42
5967	Jarkko Kneckt	225	1 27.7.2	180	51	T	N	180.51 27.7.2	It is not clear what mechanisms are included to the "NAV protection mechanism"; required by the protection field of the TWT.	Please clarify whether a transmission of a data frame with non-zero Duration field as the first frame in the TXOP belongs to the NAV protection mechanisms required by the Protection field?		2017/1/9 9:42
5968	Jarkko Kneckt	225	1 10.22.2.7	133	5	T	Y	133.05 10.22.2.7	It is unclear may there be just one Trigger frame or multiple trigger frames in a TXOP with TXOP Limit set to 0.	Please change to:"5) A basic trigger variant Trigger frame."		2017/1/9 9:42
5969	Jarkko Kneckt	225	1 10.22.2.8	132	64	T	Y	132.64 10.22.2.8	Please clarify can an HE MU PPDU contain a Trigger frame or UL MU Response scheduling HE Variant HT Control field to allocate resources for UL MU acknowledgements transmission.	Please add clarification are Trigger frames or UL MU response scheduling A-Control fields to solicit UL BAs allowed in HE MU DL PPDUs when the TXOPLimit is 0.		2017/1/9 9:42
5970	Jarkko Kneckt	225	1 10.43.1	137	56	T	Y	137.56 10.43.1	Table 9-262k in p.71, line 19 defines operation TWT Grouping. The TWT grouping response frame is not included to the Table 10-19a. Please add guidance for handling TWT Grouping response frame to the table 10-19a.	Please clarify how TWT Grouping Response frame is interpretted by the HE STAs. Alternatively, please define that the TWT Grouping Response frame is not used in 802.11ax.		2017/1/9 9:42
5971	Jarkko Kneckt	225	1 11.2.2.6	141	58	T	Y	141.58 11.2.2.6	It is unclear can an HE non-AP STA operate in both U-APSD and TWT at the same time.	The TWT power save mechanism is superior to U-APSD power save. For instance, scheduling support and faster service period termination make TWT better. If TWT is supported by the AP and the non-AP STA, the STA shall operate only in TWT mode.		2017/1/9 9:42
5972	Jarkko Kneckt	225	1 11.2.2.6	141	62	T	Y	141.62 11.2.2.6	An HE AP should be allowed to transmit Multi-TID A-MPDU containing BUs from multiple ACs as a response to the PS-Poll frame.	Please allow an HE AP to transmit frames from multiple AC as a response to the PS-Poll frame from HE non-AP STA.		2017/1/9 9:42
5973	Jarkko Kneckt	225	1 11.2.2.17	143	48	T	Y	143.48 11.2.2.17	Currently the Check Beacon field is updated when the Broadcast TWT element is added or removed from Beacon. To avoid Beacon bloat, the Broadcast TWT element should not be present in every beacon frame, but then the Check Beacon field may request that non-AP STAs receive the Beacon unnecesserily which may increase the non-AP STA power consumption. It would be better to update the Check Beacon field when information in Broadcast TWT element is modified. Also some description should be added that TWT element may not be present in every beacon.	Change the n) Inclusion of a Broadcast TWT element to n) Modification of a Broadcast TWT element. Also please add a note saying that Broadcast TWT element may not be present in every Beacon frame and modified TWT broadcast element means a change in the parameter value.		2017/1/9 9:42
5974	Jarkko Kneckt	225	1 11.49.1	144	30	E	N	144.30 11.49.1	New subclause 11.49 HE BSS operation does not specify HE BSS operating rules. Also the name of the clause 11.49.1 AID assign rule is misleading. First thoughts of the content of the clause are how to allocate or assign AID to new STA in the association.	Find more suitable title and location in the specification to describe how the HE STA may use spatial reuse with VHT PPDU transmissions.		2017/1/9 9:42
5975	Jarkko Kneckt	225	1 11.49.1	144	32	T	Y	144.32 11.49.1	Where is the Partial BSS Color field? Please provide the name of the frame and other details.	Please clarify where is the Partial BSS Color field.		2017/1/9 9:42
5976	Jarkko Kneckt	225	1 11.49.1	144	34	T	Y	144.34 11.49.1	The allocated AID (5:8) and the use of the field is not described.	Please clarify how the AID field is being used and what is happening in the clause. Also please specify how a STA should use the information in the clause.		2017/1/9 9:42

5977	Jarkko Kneckt	225	1 27.3.3.2	153	47	E	N	153.47 27.3.3.2	The S-MPDU is not defined in abreviations.	Add to clause 3.4 an abbereviation and acronym for the S-MPDU.	2017/1/9 9:42
5978	Jarkko Kneckt	225	1 27.3.3.2	154	1	E	N	154.01 27.3.3.2	The name of the clause 10.13.8 is incorrect. 802.11mc D8.0 has a title 10.13.8 Transport of VHT single MPDUs	Please correct the name of the clause.	2017/1/9 9:42
5979	Jarkko Kneckt	225	1 27.4.2	158	31	E	N	158.31 27.4.2	There seems to be additional only word	Please delete the word only in the line 31.	2017/1/9 9:42
5980	Jarkko Kneckt	225	1 27.5.1.3	163	43	T	Y	163.43 27.5.1.3	It is unclear whether BQRP Trigger variant that allocates RUs for random access requires that a HE trigger-based PPDU transmitted in the RU for random access contains a BQR information in the A-Control field.	Please clarify is a STA that detects RUs for random access required to transmit BQR reports in a Trigger-based PPDU in a RU allocated for random access. Please clarify is the same requirement used for other Trigger variants as well?	2017/1/9 9:42
5981	Jarkko Kneckt	225	1 27.5.1.3	163	43	T	Y	163.43 27.5.1.3	The non-AP STA should not be forced to perform random access. The use of random access for the BQR transmission should be voluntary for the STAs. If all STAs are required to transmit BQR in random access when a Trigger contains random access RUs, the power consumption of hte STA increases unnecessarily and transmisison overhead in random access becomes high.	The non-AP STAs transmission in the Rus allocated for random access should be optional. Change the wording to say that if RUs for random access are included a non-AP STA may respond...	2017/1/9 9:42
5982	Jarkko Kneckt	225	1 27.5.1.3	163	47	T	N	163.47 27.5.1.3	The BQR support in AP and STA is already described in lines 35 -39. The second bullet has a lot of repetition.	delete the end of hte sentence. Delete:"when the AP has indicated...".	2017/1/9 9:42
5983	Jarkko Kneckt	225	1 27.5.2.2.1	164	63	T	Y	164.63 27.5.2.2.1	The standard should not encourage to put more than one Trigger frame to the A-MPDU, because multiple Trigger generate overhead and the Trigger frames will be located right after each other.	Change may to should not. Change the text to read:" More than one Trigger frame should not be aggregated..."	2017/1/9 9:42
5984	Jarkko Kneckt	225	1 27.5.2.2.3	167	34	E	N	167.34 27.5.2.2.3	Sentences in line 34 and 38 are the related to the Trigger frame transmission rules and should be discussed in the same chapter.	Please delete the sentence in line 38 - 39 and change the sentence in line 34: "An AP may use any AC for sending a PPDU that contains only Trigger frames and follows the rules defined in 10.22.2 (HCF contention based channel access(EDCA)) for obtaining and sharing the TXOP."	2017/1/9 9:42
5985	Jarkko Kneckt	225	1 27.5.2.3	167	53	E	N	167.53 27.5.2.3	Missing :	Add : to the end of the line.	2017/1/9 9:42
5986	Jarkko Kneckt	225	1 27.5.2.3	167	53	T	Y	167.53 27.5.2.3	An HE Trigger-based PPDU may be transmitted as a response to UL OFDMA based random access. The UL OFDMA random access should be referred in the clause 27.5.2.3 to include description of all mechanisms to send HE Trigger-based PPDU.	Add a reference to UL OFDMA random access as one possibility to send HE Triggered PPDU.	2017/1/9 9:42
5987	Jarkko Kneckt	225	1 27.5.2.3	169	61	E	N	169.61 27.5.2.3	The clause is not listing all Trigger types. Please add BQR response and reference.	Add reference to BQR and GCR variant MU-BAR response generation.	2017/1/9 9:42
5988	Jarkko Kneckt	225	1 27.5.2.3	169	61	T	Y	169.61 27.5.2.3	QoS Data or QoS Null frame may be used as a response to BSRP and BQR. Currenly only QoS Null is listed.	Add QoS Data as one response frame.	2017/1/9 9:42
5989	Jarkko Kneckt	225	1 27.5.2.3	170	1	T	Y	170.01 27.5.2.3	The required frame type should be specified for the Basic Trigger frame.	Change the text to read: " ... and the STA does not have a data or management frame to transmit, the STA shall..."	2017/1/9 9:42
5990	Jarkko Kneckt	225	1 27.5.2.4	170	22	E	N	170.22 27.5.2.4	The reference should be done to clause directly.	Change the sentence to read:" ED-based CCA for UL MU CS follows the procedure defined in 21.3.18.5.2 (CCA sensitivity for cpearation classes requiring CCA-ED)...	2017/1/9 9:42
5991	Jarkko Kneckt	225	1 27.5.2.4	170	29	E	N	170.29 27.5.2.4	The text should discuss on the value of the Length field	change: " ... and the value of the Length.. "	2017/1/9 9:42
5992	Jarkko Kneckt	225	1 27.5.2.4	170	32	T	Y	170.32 27.5.2.4	The current conditions are not in the most simple format. The most important issue for the UL MU CS is when the CS indicates idle. Also the conditions when one or two NAVs are being used are not confusing.	The virtual CS indicates idle, if: - the response generated by the STA contains an ACK frame or a BlockAck frame and the value of the Length subfield in the Common Info field of the TRigger frame is less than or equal to 418 - if one NAV is considered, the NAV was set by an intra-BSS frame, - if two NAVs are considered, the duration of the basic NAV is zero.	2017/1/9 9:42

5993	Jarkko Kneckt	225	1 27.5.2.4	170	43	E	Y	170.43 27.5.2.4	Text is long and complicated to understand. A single clause is referred multiple times. The use of acronyms is not consistent. The ED-CCA use is described in more details, Virtual CS use is not included to text.	Change to:" If the CS required subfield in a Trigger frame is set to 1, the STA may transmit an HE trigger-based PPDU when Virtual CS is idle and the CCA-ED indicates idle for each 20 MHz channels containing the allocated RUs for SIFS duration after receiving the PPDU that contains the Trigger frame.		2017/1/9 9:42
5994	Jarkko Kneckt	225	1 27.5.2.4	170	56	E	N	170.56 27.5.2.4	The busy/idle state of medium should be written more clearly.	Change to:" ...trigger-based PPDU even if the Virtual CS or CCA-ED of the 20 MHz channels containing RUs indicate busy".		2017/1/9 9:42
5995	Jarkko Kneckt	225	1 27.5.2.5	171	26	T	Y	171.26 27.5.2.5	The non-AP STA could benefit, if it could indicate its Buffer status report for all TIDs that it has buffered traffic. An exception to the Multi-TID aggregation rules could be made to allow QoS Null frames that are not acknowledged addition to any Multi-TID aggregated A-MPDU	Please allow non-AP STA to aggregate QoS Null frames that do not require ACK from any TID to A-MPDU to be able to indicate buffer status report for all TIDs that the non-AP STA has buffered traffic.		2017/1/9 9:42
5996	Jarkko Kneckt	225	1 27.5.2.5	171	44	T	N	171.44 27.5.2.5	The unsoliciited BSR should be allowed to transmit as a response to all Trigger variants, except MU-RTS.	Change to: " Note 1-The STA can send an unsolicited BSR is a response to all variants of the Trigger frame, except MU-RTS variant...		2017/1/9 9:42
5997	Jarkko Kneckt	225	1 27.5.2.5	172	19	T	N	172.19 27.5.2.5	Aggregating the BSR control frame with data, control and management frame is unlikely. It is more likely that BSR control frame is aggregated with control, data OR management frame.	Change to:" aggregated with control, data or management frames..."		2017/1/9 9:42
5998	Jarkko Kneckt	225	1 27.5.2.5	172	20	T	Y	172.20 27.5.2.5	Unclear statements that may be interpretted differently resulting to interoperability problems.	Please clarify what is meant with "asks for acknowledgement" and "has high priority to be transmitted".		2017/1/9 9:42
5999	Jarkko Kneckt	225	1 27.5.2.6.1	172	34	T	Y	172.34 27.5.2.6.1	Currently every STA in proximity may perform UL OFDMA random access in every RU for UL OFDMA random access. The AP should be able to indicate that only associated STAs are allowed transmit in the random access RU. This ensures that the associated STAs are able to use UL OFDMA random access to transmit buffer status reports which reduces data transmission latency.	Please, allocate new AID value, for instance 1, to dedicate the UL OFDMA random access RU only for the associated non-AP STAs.		2017/1/9 9:42
6000	Jarkko Kneckt	225	1 27.5.2.6.1	172	35	T	Y	172.35 27.5.2.6.1	27.5.2.6.1 states that only basic variant or BSRP variant trigger may contain random access opportunities. 27.5.1.3 has a contradiction stating that BQR variant Trigger may include Rus for random access. The random access should be possible for all Trigger variants except MU-RTS.	Delete the sentence in lines 35 and 36 and add the following sentence:" One or more RUs for UL OFDMA random access may be included to all trigger frame variants, except to MU-RTS variant."		2017/1/9 9:42
6001	Jarkko Kneckt	225	1 9.3.3.6	53	36	T	Y	53.36 9.3.3.6	The RAPS information (OCWMin and OCWMax) should be present in the (re)association response. This allows the UL OFDMA random access immediately after the association.	Please add the RAPS information part of the HE Operation parameters, or add the RAPS element to the Association Response frame body.		2017/1/9 9:42
6002	Jarkko Kneckt	225	1 6.3.3.3.2	11	42	T	Y	11.42 6.3.3.3.2	The RAPS information should be returned in BSSDescription table of the MLME-SCAN.confirm.	Please add the RAPS information part of the HE Operation parameters, or add the RAPS element to the BSSDescription table.		2017/1/9 9:42
6003	Jarkko Kneckt	225	1 9.3.3.8	54	31	T	Y	54.31 9.3.3.8	The RAPS information (OCWMin and OCWMax) should be present in the (re)association response. This allows the UL OFDMA random access use	Please add the RAPS information part of the HE Operation parameters, or add the RAPS element to the Re-Association Response fare body.		2017/1/9 9:42
6004	Jarkko Kneckt	225	1 27.5.6.1	172	39	T	Y	172.39 27.5.6.1	The RAPS element should be included to association and reassociation response frames	Please allow the RAPS element to be part of the (re) assocation response frame.		2017/1/9 9:42
6005	Jarkko Kneckt	225	1 27.5.2.6.2	173	30	T	Y	173.30 27.5.2.6.2	The OCWmin value use for UL MU OFDMA random access is not clearly defined. Is the OCW set to OCWMin value everytime a new OCWMin value is obtained by the STA?	Please clarify does a reception of new OCWMin value set the OCW value to OCWMin.		2017/1/9 9:42

6006	Jarkko Kneckt	225	1 27.5.2.6.3	174	9	T	Y	174.09 27.5.2.6.3	The PPDU itself cannot fail. The reception of the PPDU or the reception of the immediate response may fail.	Clarify what is failed. Does the reception of the HE Trigger-based PPDU fail or does the immediate response fail?	2017/1/9 9:42
6007	Jarkko Kneckt	225	1 27.5.2.6.3	174	15	T	Y	174.15 27.5.2.6.3	The OCW value should be updated for each failed transmission, not only if a frame is retransmitted. Currently it is not clear how OCW is handled if the STA transmits a new frame.	Change the text:" If a response to a HE Trigger-based PPDU transmitted in random RU requiring immediate response is not received, the STA shall update its OCW to 2 X OCW +1, until the the OCW reaches value of OCWmax.	2017/1/9 9:42
6008	Jarkko Kneckt	225	1 27.5.2.6.3	174	24	T	Y	174.24 27.5.2.6.3	The clause 27.5.2.7 seems relate to the clause 27.6. The clause 27.5.2.7 is unclear and difficult to understand.	Please merge clause 27.5.2.6.3 with the clause 27.6 and delete the clause 27.5.2.7.	2017/1/9 9:42
6009	Jarkko Kneckt	225	1 27.5.3	174	32	T	Y	174.32 27.5.3	The sentence:" A TXOP can include both ..." is confusing. The cascading operation is described more clearly starting form line 34.	Delete the sentence in the line 32.	2017/1/9 9:42
6010	Jarkko Kneckt	225	1 27.6.2	176	50	T	Y	176.50 27.6.2	The Operating Mode Notification frame and the Operating Mode Indication subfield control the value of the RX NSS parameter. i.e. a non-AP STA does not have two separate RX NSS parameters as described in the current text. The last received Operating Mode Notification frame or Operating Mode Indication subfield defines the value of the RX NSS parameter.	Combine the bullets in line 50 and 57 into a single bullet. There is only a single RX NSS value.The Operating Mode Notification frame or the Operating Mode Indication HE Variant of the HT Control field that is received most recently defines the value of the RX NSS field.	2017/1/9 9:42
6011	Jarkko Kneckt	225	1 27.6.2	177	44	T	Y	177.44 27.6.2	The figure 27-3 colors are very interesting. Why there are red and blue box? What does green and yellow color indicate? Why some text is in red and other in black?	Please simplify the figure and unify its colors. Please provide legend for the colors.	2017/1/9 9:42
6012	Jarkko Kneckt	225	1 27.6.2	178	5	T	Y	178.05 27.6.2	The figure 27-4 colors are interesting. Why HE is in red? There could be just one Trigger and response that is repeated 1 ... N times. Please consider changing the green color to no color.	Please simplify the figure and unify its color coding and provide legend for the colors.	2017/1/9 9:42
6013	Jarkko Kneckt	225	1 27.8.3	189	39	T	Y	189.39 27.8.3	The NOTE is currently unclear. The NOTE sounds like a STA with UL MU Disable would respond to some Trigger frame variants.	Change the Note -"... that it will not respond to any variant of the Trigger frame."	2017/1/9 9:42
6014	Jarkko Kneckt	225	1 27.8.3	189	45	E	N	189.45 27.8.3	The TOMI description has repetition. The lines 26 - 27 and lines 45 - 46 define the maximum number of TX NSS a STA may use.	Delete the lines 45-46, because they repeat the message of the lines 26-27.	2017/1/9 9:42
6015	Jarkko Kneckt	225	1 27.8.3	189	48	T	Y	189.48 27.8.3	The TOMI description has repetition. The lines 29 -30 and lines 48 - 49 define the maximum channel width a STA may use.	Delete the lines 48 - 49, and change the note in line 29-30 to normative text.	2017/1/9 9:42
6016	Jarkko Kneckt	225	1 27.8.3	189	52	T	Y	189.52 27.8.3	The OMI information should be received from the OMI Initiator, not received by the OMI initiator.	Change the sentence in line 52 to read:"... of spatial streams that is indicated in the TX NSS subfield of the OMI A-Control field that is last received from the OMI initiator.	2017/1/9 9:42
6017	Jarkko Kneckt	225	1 27.8.3	189	54	T	Y	189.54 27.8.3	The Channel Width subfield of the ROMI should be allocated from the primary channel, not from other channels. The Current wording in TOMI field limits the maximum RU Bandwidth, but does not ensure that the indicated RU Bandwidth is in the primary channel.	Add to the end of the sentence in the line 57:" and allocated in the primary channel. "	2017/1/9 9:42
6018	Jarkko Kneckt	225	1 27.9.1	190	7	T	Y	190.07 27.9.1	It is unclear how the spatial reuse improves power saving? The spatial reuse may improve the transmission latency and system throughput in dense deployments. Perhaps as outcome of improved latency and throughput, the non-AP STA power efficiency is improved.	Please clarify how spatial reuse Improves non-AP STA power efficiency.	2017/1/9 9:42
6019	Jarkko Kneckt	225	1 27.9.1	190	11	E	N	190.11 27.9.1	There is unclear reference.	Please change the reference to 27.9.2.	2017/1/9 9:42
6020	Jarkko Kneckt	225	1 27.9.1	190	10	T	Y	190.10 27.9.1	The SR PPDU is not defined. The following clauses do not use the term SR PPDU so the general introduction and the actual description text do not match.	Clarify the general spatial reuse operation. specify the term SR PPDU if ti is used by spatial reuse definition or delete the term.	2017/1/9 9:42

6021	Jarkko Kneckt	225	1 27.9.2.1	190	36	T	Y	190.36 27.9.2.1	The sentence starting in line 36 seems to add a new condition that is not considered in the bulleted list in lines 23 -34. The new condition should be part of the bulleted list, not an exception to it.	Write the sentence as part of the bulleted list above.		2017/1/9 9:42
6022	Jarkko Kneckt	225	1 27.9.2.1	190	39	T	Y	190.39 27.9.2.1	The condition in the lines 39 - 42 is difficult to read. There seems to be first one condition then description what is done if the condition is fulfilled and then again some more conditions. Write first all conditions and then the performed operation, if the conditions are met.	Mnodify the sentence. Write all conditions first and then the operation if the conditions are fulfilled. Please ensure that all opeation alternatives are written to the normative text.		2017/1/9 9:42
6023	Jarkko Kneckt	225	1 27.9.2.1	190	50	E	N	190.50 27.9.2.1	Missing title format, or unclear sentence.	Please delete the text in line 50		2017/1/9 9:42
6024	Jarkko Kneckt	225	1 27.9.2.1	190	59	T	Y	190.59 27.9.2.1	The lines 59 - 62 seems to relate to operation is allowed if the conditions in lines 20 - 34 are met. The statement in the lines 59 - 62 should be moved as next text after the conditions to ensure correct understanding of the operation.	Move the sentences in lines 59 - 62 to follow the conditions introduced in the lines 20 - 34.		2017/1/9 9:42
6025	Jarkko Kneckt	225	1 27.9.2.1	190	36	T	Y	190.36 27.9.2.1	The spatial reuse rules are not easy-to-understand. Is the reuse allowed only for the PPDU duration when HE MU PPDU is transmitted and in all other cases the channel may be considered as IDLE and there is no limitation of the duration when the spatial reuse may be performed?	Please clarify.		2017/1/9 9:42
6026	Jarkko Kneckt	225	1 27.9.2.1	190	26	T	Y	190.26 27.9.2.1	The use of the spatial reuse parameter in the RXVECTOR should be clarified or at least there should be a reference to its operation rules.	Please clarify how RXVECTOR parameter are used.		2017/1/9 9:42
6027	Jarkko Kneckt	225	1 27.9.2.1	190	19	T	Y	190.19 27.9.2.1	Can a PHY-CCA.indication indicate something else than BUSY followed by the RXSTART.indication? If the PHY-CCA Indication can have other value in this case, then it should be clarified how the STA operates in these situations. If the PHY-CCA cannot have other value, then the condition is not needed.	Please clarify the question in the comment.		2017/1/9 9:42
6028	Jarkko Kneckt	225	1 27.9.2.2	191	3	T	Y	191.03 27.9.2.2	What is system level performance?	Please clarify. Perhaps it relates to throughput, non-AP STA power consumption and latency.		2017/1/9 9:42
6029	Jarkko Kneckt	225	1 27.9.2.2	192	20	E	N	192.20 27.9.2.2	UL TB PPDU is not the correct name.	Please change to HE Trigger-based PPDU.		2017/1/9 9:42
6030	Jarkko Kneckt	225	1 27.10.4	194	35	T	Y	194.35 27.10.4	It would be beneficial to carry multi-TID A-MPDU in all SU PPDU types between HE STAs. Non-HE SU PPDUs have shorter preamble duration than HE SU PPDUs which may improve throughput.	Please allow A-MPDU Multi-TID aggregation to be transmitted in all SU PPDU types between HE STAs.		2017/1/9 9:42
6031	Jarkko Kneckt	225	1 27.10.4	195	20	T	Y	195.20 27.10.4	Can a Multi-TID A-MPDU be transmitted as a response to Trigger frame which type is other than Basic Variant Trigger frame?	Please clarify may Multi-TID A-MPDU be transmitted as a response to any Trigger frame variant, except MU-RTS.		2017/1/9 9:42
6032	Jarkko Kneckt	225	1 27.13	199	1	T	Y	199.01 27.13	The use of HE-MCS subfield in link adaptation is very loosely defined. It is not clear how the AP and the STA use the link adaptation information.	Please provide some more details how the link adaptation is used by the non-AP STA and the AP. Please describe how to recommended MFB should be used by the transmitter and the receiver. Especially it is interesting to know how non-AP STA can use link adaptation for Triggered transmissions.		2017/1/9 9:42
6033	Jarkko Kneckt	225	1 27.7.2	180	53	T	Y	180.53 27.7.2	The protection field of TWT parameters should be set to 0 in the Triggered and unannounced TWTs, because the AP should have flexibility to decide whether it desires to use NAV protection mechanism.	Please add a sentence:" The TWT Protection field shall be set to 0 in Triggered and unannounced TWTs."		2017/1/9 9:42

6034	Jarkko Kneckt	225	1 10.22.2.8	133	64	T	Y	133.64 10.22.2.8	Please clarify can any number of buffer status reports and all required bandwidth query reports be triggered in a TXOP with TXOPLimit value 0. In general it could be a good principle to allow transmission of any number of Trigger frames soliciting a specific response type transmission in an AC with TXOPLimit set to 0.	Please add clarification are Trigger frames to solicit buffer status reports and bandwidth query allowed in a TXOP with TXOPLimit set to value 0.	2017/1/9 9:42
6035	Jarkko Kneckt	225	1			T	Y		Currently all group addressed frames transmitted in the DL MU PPDU use AID value 0. The group addressed frames contain IP Multicast data and MAC level BSS discovery frames, like FILS discovery frames. The IP multicast data is typically encrypted and only used by the associated STAs. The discovery frames are used by the non-associated STAs that look for network for association. The discovery and data type of the group addressed frames should be transmitted under separate AID values to enable the non-AP STAs to select which frames they receive. fewer reception operations reduce power consumption. New AID value for discovery information allows more frequent discovery information transmissions without increasing the power consumption of the associated STAs. More frequent power consumption reduces scanning delays and scaning power consumption of the non-AP HE STAs.	Please allocate new AID value, for instance 1, to indicate RU allocation for broadcast discovery information transmission in HE DL MU PPDUs.	2017/1/9 9:42
6036	Jarkko Kneckt	225	1			T	Y		Currently, the AID may be allocated to a STA only in association. There should be a mechanims to allocate preassociation AID to be able to transmit MU DL PPDUs and HE Trigger-based PPDUs to preassociated STAs.	Please allow the AP to distribute preassociation AID in probe response frame or as part of the UL OFDMA based random access.	2017/1/9 9:42
6037	Jarkko Kneckt	225	1 27.14.2	199	53	E	N	199.53 27.14.2	The power save with UL OFDMA-based random access is related to broadcast TWT operations. The clause should be part of the clauses that define broadcast TWT operations.	Move the clause 27.14.1 as part of the Broadcast TWT clauses, for instance to new clause 27.7.3.5.	2017/1/9 9:42
6038	Jarkko Kneckt	225	1 27.14.2	200	5	T	Y	200.05 27.14.2	The Figure 27-7 is hard to understand. The trigger frame start time is shown to be long and the transmission of the Trigger frame is not started in the beginning of the trigger frame start time. There is a trigger frame that is transmitted before the TF Start time.	Please clarify the figure. The Trigger Frame start time does not look like correctly drawn to the figure.	2017/1/9 9:42
6039	Jarkko Kneckt	225	1 27.14.2	200	28	T	Y	200.28 27.14.2	The BC TWT Flow ID value 2 is used for TWTs that include random access RUs. Each TWT service period has a nominal minimum duration that defines the maximum time that STAs may transmit in the service period. The maximum duration of the TWT SP is not described in the UL OFDMA random access. Also EOSP and more data fields use in the TWT SP termination are not explained.	Please refer to the TWT SP termination rules in UL OFDMA random access. The TWT SP duration, EOSP and More Data fields should terminate the TWT SP for all power save mode STAs.	2017/1/9 9:42
6040	Jarkko Kneckt	225	1 27.14.2	200	35	T	N	200.35 27.14.2	If a non-AP STA in power save mode has transmitted during the UL OFDMA random access and the TWT SP initiated by the UL OFDMA random access has been terminated, the non-associated STA should have easy way to continue data exchange at the following TWT flows.	Please allow the non-associated STA to assign preassociation AID and to wake at the next TWT SP of the same TWT flow that it was used for the UL OFDMA random access. This ensures that AP knows when the non-associated STA is again available for the data transmission, allows the non-AP STA in power save mode to operate in Doze state and reduces contention during random access.	2017/1/9 9:42

6041	Jarkko Kneckt	225	1 27.14.3	200	37	E	N	200.37 27.14.3	The title of the opportunistic power save does not need to mention congested environment	Delete the congested environment from the title of the clause 27.14.3.	2017/1/9 9:42
6042	Jarkko Kneckt	225	1 27.14.2	200	30	T	Y	200.30 27.14.2	Currently the Cascade indication is used to indicate the end of the RU allocations for random access and that no more Trigger frames will be transmitted in the TWT SP. Two indications in the same field may complicate the TWT SP handling and random access termination. A trigger frame without RU allocated for the random access could indicate that there will not be more RUs allocated for the UL OFDMA random access in this TWT SP. This would allow different handling of the STAs that have already an AID and STAs that are performaning the random access. It is likely that first HE Triggered PPDUs are short and contain a many RUs for random access. At the end of the TWT SP there may be larger PPDUs that are used to exchagne data. If there is just the Cascade indication to control STAs availability, the STAs performing random access may need to be available unnecessarily.	Please allow STAs that are performing UL OFDMA random access return to Doze when a Trigger frame does not contain RU allocated for random access.	2017/1/9 9:42
6043	Jarkko Kneckt	225	1 27.14.2	200	30	T	Y	200.30 27.14.2	A Cascade Indication set to 0 indicates the last Trigger frame that contains UL OFDMA random access RUs. Clause 27.7.3.3 P185 L54 has a different logic for Cascade Indication handling: A non-AP STA may return to Doze, if the Trigger has Cascade Indication set to 0 and there is no RU allocated to the STA. The definition in P185 would allow a STA to continue TWE SP if it receives a Trigger with Cascade Indication set to 0 and has RUs allocated for the STA, in definition P200, the TWT SP will be terminated regardless of the allocated RUs.	Please unify the handling of the Cascade indications in TWT SPs. The TWT SP should be terminated if Cascade Indication has value 0 and there is no allocated Rus for the STA.	2017/1/9 9:42
6044	Jarkko Kneckt	225	1 27.7.3.2	184	1	T	Y	184.01 27.7.3.2	The opportunistic PS seems to suggest that any active mode non-AP STA is added to the opportunistic TWT SP, unless the FILS Discovery or TIM frame at the beginning of the opportunistic TWT SP indicate that the STA will not get service. In page 184L1 there is a contradicting statement.	Please modify the statement in the P184L1. The AP may include AID of the STA in power save mode only if it has established a membership to a broadcast TWT. The active mode STAs may be triggered at any time.	2017/1/9 9:42
6045	Jarkko Kneckt	225	1 27.14.3.2	201	15	T	Y	201.15 27.14.3.2	Please clarify that STAs in power save mode may establish a membership with opportunistic TWT if the power save mode STA desires to wake up at the beginning of the opportunistic TWT SP. Just to set a STA to Doze in opportunistic TWT SP does not need a membership establishment.	Please add a clarification that a non-AP STA should establish a BC TWT membership with opportunistic PS, if the non-AP STA desires to wake up at the beginning of the TWT SP.	2017/1/9 9:42
6046	Jarkko Kneckt	225	1 27.14.3.1	200	62	T	Y	200.62 27.14.3.1	The TIM, FILS Discovery and Beacon frame should contain two TIM elements for two different use: 1. for Opportunistic PS to indicate which STAs may get service 2. To indicate to STAs in power save mode DL Buffered traffic and which HE STAs should be available to receive and respond to a Trigger frame. Two TIM elements improve non-AP STA stand-by power save as well as opportunistic PS is available for the whole TXOP duration.	Please specify two TIM elements to Beacon, FILS Discovery and TIM frames. One TIM element is for opportunistic PS indicating will the AP Trigger the STA and the other TIM element is for stand-by PS indicating buffered DL traffic and whether the AP expects the STA to respond to the Trigger frame. If the AP does not expect the STA to respod to the Trigger, the STA may return immediately to Doze.	2017/1/9 9:42
6047	Jarkko Kneckt	225	1 27.16.3.2	207	22	E	N	207.22 27.16.3.2	The MLME primitives for QTP should be defined in the clause 6.3	Please introduce the QTP MLME primitives in clause 6.3	2017/1/9 9:42

6048	Jarkko Kneckt	225	1 27.16.3.3	208	18	T	N	208.18 27.16.3.3	If an HE AP has associated legacy non-AP STAs and the AP has established quiet period, then is the AP allowed to send data to the legacy STAs, or beacons during the quiet period.	Please clarify.	2017/1/9 9:42
6049	Jarkko Kneckt	225	1 9.4.2.200	73	3	T	N	73.03 9.4.2.200	How STAs that have established TWT Flow ID 1 or 2 transmit UL DATA? The recommendations do not allow UL data transmission.	Please allow UL and DL data frames transmission at the end of the TWT SP. Thus, the first part of the TWT may be used to exchange short signaling packets and the last part could be used for the data transmissions. Transmitting data in the same TWT SP simplifies the TWT handling.	2017/1/9 9:42
6050	Jarkko Kneckt	225	1 27.8.3	189	15	T	Y	189.15 27.8.3	The UL MU Disable field in transmit operation mode suspends the UL MU operations. When the UL MU operations are suspended the STA may only use EDCA to transmit data. In high congestion the TXOP obtaining with EDCA increases contention and adds transmission delays. The STA should be capable to use reverse direction grant to allow the non-AP STA to transmit UL. The use of RDG reduces contention in the channel, shortens the channel access delays and reduces the power consumption of the non-AP STA.	Please add UL MU operation mode to the transmission operation mode where the AP uses reverse direction grant to schedule UL transmission resources to the non-AP STA.	2017/1/9 9:42
6051	Jarkko Kneckt	225	1 9.4.2.200	69	17	T	Y	69.17 9.4.2.200	The Trigger field in the TWT currently controls whether the AP shall send a Trigger to a STA in TWT SP. The TWT should not force AP to send Trigger frames, the Triggering should be taken into use when EDCA is not performing well and AP should have flexibility to control this transition.	Delete the Trigger field in the Request Type field of the TWT element.	2017/1/9 9:42
6052	Jeongki Kim	225	1 27.14.1	199	21	T	Y	199.21 27.14.1	Intra-BSS PPDU Power saving is a micro sleep PS method based on the PPDU duration in order to minimize the STA's power consumption. In DL MU PPDU, if there is no its STA ID in STA list of SIG-B of Intra-PPDU, the STA can enter the Doze state. However, in DL MU PPDU, an A-MPDU for a STA can carry longer padding frames rather than other A-MPDUs. When the padding is very long, it's efficient for the STA to enter the Doze state during padding frames.	Add the operation mentioned in the comment into subclause 27.14.1	2017/1/9 9:42
6053	Jeongki Kim	225	1 27.14.2	200	31	T	Y	200.31 27.14.2	A Trigger frame can carry the trigger information for both scheduled STAs and OFDMA random access STAs. Although the trigger information for OFDMA random access STAs is included in some consecutive Trigger frames(not all) in a TXOP, random access STAs should be awake until receving the Trigger frame including Cascade indication set to 0. A Trigger frame for random access need to carry the information of whether random access RUs will be allocated in the next consecutive TFs in a TXOP or not	As mentioned in comment, add the related operation into subclause 27.14.2 and update the related fields in a Trigger frame	2017/1/9 9:42
6054	Jeongki Kim	225	1 27.9.2	190	15	T	Y	190.15 27.9.2	Currently, Spatial reuse is adopted for OBSS packets. In enterprise network, the SR considering ESS is more useful than considering BSS. As proposed in 947r18, AP should be able to send the BSSs list belonging to an ESS/a Group and in that case SR should be considered in the other BSSs except for the BSSs list sent by the AP	As proposed in 947r18, includes the BSSs list belonging to a ESS in a Beacon and add the related operation in the specs	2017/1/9 9:42

6055	Jeongki Kim	225	1 27.14.1	199	20	T	Y	199.20 27.14.1	BSS Color can be disabled by BSS Color Disabled subfield set to 1. In BSS Color Disabled case, Intra-PPDU PS based on BSS Color is disabled. In subclause 27.14.1, the related text needs to be updated as follows.	Change the related text as follows. -- The PPDU is an HE MU PPDU where the RXVECTOR parameter BSS_COLOR is the BSS color of the BSS with which the STA is associated, the RXVECTOR parameter UL_FLAG is 0, and the RXVECTOR parameter STA_ID_LIST does not include the identifier of the STA or the broadcast identifier(s) intended for the STA and the most recently received HE Operation element from the AP to which it is associated contained a value of 0 in the BSS Color Disabled subfield. -- The PPDU is an HE MU PPDU, HE SU PPDU or HE extended range SU PPDU and one of the following conditions are true: * The RXVECTOR parameter BSS_COLOR is the BSS color of the BSS with which the STA is associated and the		2017/1/9 9:42
6056	Jeongki Kim	225	1 27.2.2	151	12	T	Y	151.12 27.2.2	When BSS Color is diabled, the STA should not update its Intra-BSS NAV with the TXOP_DURATION of the received Intra-BSS PPDU. In subclause 27.2.2, the related texts should be updated.	Change the related text in 27.2.2 as follows: -- The PPDU that carried information of the RXVECTOR parameter is identified as intra-BSS according to the rule described in 27.2.1 (Intra-BSS and inter-BSS frame detection) and the most recently received HE Operation element from the AP to which it is associated contained a value of 0 in the BSS Color Disabled subfield		2017/1/9 9:42
6057	Jeongki Kim	225	1 10.3.2.3.7	114	32	T	Y	114.32 10.3.2.3.7	When BSS Color is diabled, EIFS can be invoked if BSS Color is disabled although a valid TXOP_DURARION is present in the received Intra-BSS PPDU because Intra-BSS NAV is not updated by TXOP_DURATION. Therefore, the EIFS related text should be updated.	Change the related text in 10.3.2.3.7 as follows: EIFS shall not be invoked if a valid TXOP_DURATION parameter is present in the RXVECTOR of a received HE PPDU and the most recently received HE Operation element from the AP to which it is associated contained a value of 0 in the BSS Color Disabled subfield		2017/1/9 9:42
6058	Jeongki Kim	225	1 27.2.1	150	16	T	Y	150.16 27.2.1	Group ID and Partial AID as well as BSS Color can be RXVECTOR paramters in VHT PPDUs.	Change the text as following: RXVECTOR parameters (e.g., BSS_COLOR in HE PPDUs or GROUP_ID and PARTIAL_AID in VHT PPDUs).		2017/1/9 9:42
6059	Jeongki Kim	225	1 27.2.1	149	51	T	Y	149.51 27.2.1	The second condition of Inter-BSS frame detection (i.e., BSSID field based detection) could be adopted for RXVECTOR parameter BSS_COLOR set to 0 as well as absence of BSS_COLOR.	Change as following: "When the RXVECTOR parameter BSS_COLOR of the PPDU carrying the frame is not present or 0,		2017/1/9 9:42
6060	Jeongki Kim	225	1 27.4.1	157	49	T	Y	157.49 27.4.1	The text need to be cleaned up or clarified. Change to: Multi-STA BlockAck frame	Changed to the following text: An HE STA that supports Multi-STA BlockAck frame shall examine each received Multi-STA BlockAck frame sent by an STA with which it has a BA agreement.		2017/1/9 9:42
6061	Jeongki Kim	225	1 9.3.1.23	45	26	T	Y	45.26 9.3.1.23	In legacy WLAN, AID range is 1~2007 and the size of STAID in HE-SIG B is 11. If there is no special reason of 12 bits AID (i.e., AID 12), then change AID 12(B0~B11) to AID 11 (B0~B10) and 1 reserved bit (B11)	As in comment		2017/1/9 9:42
6062	Jeongki Kim	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	According to 27.11.4 BSS_COLOR, BSS Color (0) indicates that one or more intended recipient STAs is not a member of a transmitting STA's BSS. Therefore, the indicated paragraph (p91, l39) should be deleted.	Delete the following paragraph: "The BSS Color field is an unsigned integer whose value is the BSS color of the BSS corresponding to the AP which transmitted this element, except that a value of 0 in this field indicates that there is no BSS color for this BSS."		2017/1/9 9:42

6063	Jeongki Kim	225	1 9.4.2.218.2	79	22	T	Y	79.22 9.4.2.218.2	The function of the 'Group addressed Multi-STA BlockACK In DL MU Support ' subfield need to be defined. Define how the STA receives a group addressed Multi-STA BlockAck frame that is sent in a DL MU PPDU in a non-broadcast RU.	Define the method of sending a group addressed Multi-STA BlockACK in DL MU PPDU or clarify the 'Group addressed Multi-STA BlockACK in DL MU Support' subfield.	2017/1/9 9:42
6064	Jeongki Kim	225	1 10.9	127	38	E	Y	127.38 10.9	The paragraph of page 127, line 38~42 in 10.9 ('If the HT Control field is ....to the same value.') is the text in REVmcD8.0. The underline of the paragraph should be deleted.	Delete the underline in the paragraph of page 127, line 38~42 in 10.9 ('If the HT Control field is ....to the same value.')	2017/1/9 9:42
6065	Jeongki Kim	225	1 27.5.2.2.1	165	35	T	Y	165.35 27.5.2.2.1	Because the size of AID in User Info field is 12 bits, change the value of AID for padding from the 2047 to 4095.	Change the related text as follows: NOTE 1--The start of the Padding subfield is identified by a User Info field that has a value of the AID equal to 2047 4095, and the remaining subfields of the Padding field are set to 1.	2017/1/9 9:42
6066	Jeongki Kim	225	1 27.5.2.3	168	8	T	Y	168.08 27.5.2.3	TXOP_DURATION parameter setting rule is defined in 27.11.5 (TXOP_DURATION). Change the related text.	Change the related text as follows: The TXOP_DURATION parameter shall be set according the rules defined in 27.2.2 (Updating two NAVs) 27.11.5 (TXOP_DURATION)	2017/1/9 9:42
6067	Jeongki Kim	225	1 27.5.2.3	169	23	T	Y	169.23 27.5.2.3	TXOP_DURATION parameter setting rule is defined in 27.11.5 (TXOP_DURATION). Change the related text.	Change the related text as follows: The TXOP_DURATION parameter shall be set according the rules defined in 27.2.2 (Updating two NAVs) 27.11.5 (TXOP_DURATION)	2017/1/9 9:42
6068	Jeongki Kim	225	1 10.3.2.4	114	62	T	Y	114.62 10.3.2.4	The STA with one NAV should know if the NAV updated by TXOP_DURATION was set by Intra-PPDU or not before sending UL MU frame.	Insert the following thext in 10.3.2.4: "When a STA updates its NAV with RXVECTOR parameter TXOP_DURATION, the STA shall save the RXVECTOR parameter BSS_COLOR".	2017/1/9 9:42
6069	Jeongki Kim	225	1 9.4.2.139	68	48	E	N	68.48 9.4.2.139	The indicated paragraph is modifed in the legacy spec (REVmcB.0). The modifications(i.e., underline for new text) should be present in the related paragraph. Change 'non-HE originator' to 'non-HE originator'. Change 'non-HE recipient' to 'non-HE recipient'.	Change 'non-HE originator' to 'non-HE originator'. Change 'non-HE recipient' to 'non-HE recipient'.	2017/1/9 9:42
6070	Jian Yu	225	1	7	1	G	Y	7.01	A lot of abbrevations are missing, for example: BSR, BQR etc.	Add the missing abbreviations	2017/1/9 9:42
6071	Jian Yu	225	1	9	43	T	Y	9.43	Optional support for 1024-QAM on 242-, 484- and 996-tone RUs seems to be part of Optional support for HE-MCSs 10 and 11	Delete line 43	2017/1/9 9:42
6072	Jian Yu	225	1	23	60	E	Y	23.60	the number of OFDM symbols the Data field: should be the number of OFDM symbols in the Data field	Add in	2017/1/9 9:42
6073	Jian Yu	225	1	31	27	E	Y	31.27	Dulicate index	Delete duplicate index i) and ii)	2017/1/9 9:42
6074	Jian Yu	225	1	83	19	T	Y	83.19	1x LTF and 1.6us GI for HE Trigger based PPDU is CM and no need to have B15	Delete B15	2017/1/9 9:42
6075	Jian Yu	225	1	37	51	T	Y	37.51	It is better to use AID11 instead of AID	AID11 instead of AID	2017/1/9 9:42
6076	Jian Yu	225	1	38	4	T	Y	38.04	The NOTE should be incorprated into Table 9-24b or inline instead of a NOTE.	As in comment	2017/1/9 9:42
6077	Jian Yu	225	1	40	6	T	Y	40.06	Same type and subtype	Add and Subtype after Type	2017/1/9 9:42
6078	Jian Yu	225	1	41	28	T	Y	41.28	Prevent a VHT from wrongly determinining it's AID in the VHT STA info. Should be VHT, not HE	Change to VHT from HE	2017/1/9 9:42
6079	Jian Yu	225	1	41	47	T	Y	41.47	Delete the bracket of RA	As in comment	2017/1/9 9:42
6080	Jian Yu	225	1	41	7	E	Y	41.07	Add an space between GIAND	As in comment	2017/1/9 9:42
6081	Jian Yu	225	1	42	48	T	Y	42.48	Like BA and GCR BA, MU-BAR and GCR MU-BAR can be combined into one type of trigger frame and further differentiate by BAR control. This will help to save space for other types of trigger frame.	As in comment	2017/1/9 9:42

6082	Jian Yu	225	1	44	23	T	Y	44.23	For OFDMA PPDUs, the number of HE-LTFs should be greater or equal to the maximum across RUs of the Number of HE-LTFs as defined in Table 22-13. For example, if the maximum STS is 7, the number of HE-LTF cannot be 7, but should be 8.	As in comment	2017/1/9 9:42
6083	Jian Yu	225	1	44	56	T	Y	44.56	Pre-FEC Padding Factor (2bits) and PE disambiguity (1bit) as in HE-SIG-A field should refer to the HE-SIG-A as a reference	As in comment	2017/1/9 9:42
6084	Jian Yu	225	1	45	11	T	Y	45.11	The doppler mode of transmiission is not clear	Define doppler mode	2017/1/9 9:42
6085	Jian Yu	225	1	47	51	E	Y	47.51	Add a comma between PPDU and the	As in comment	2017/1/9 9:42
6086	Jian Yu	225	1	50	28	T	Y	50.28	Delete NOTE--	As in comment	2017/1/9 9:42
6087	Jian Yu	225	1	57	60	E	Y	57.60	"And" should be "and", also need to search for other "And"	As in comment	2017/1/9 9:42
6088	Jian Yu	225	1	68	56	T	Y	68.56	Level 3 is missing here	Add level 3 description, may refer to Table 9-262z	2017/1/9 9:42
6089	Jian Yu	225	1	74	52	T	Y	74.52	The ax draft contains description for 11ah draft without an clarification. For example, there is description for channel width of 1MHz and 2MHz for a BSS, whch seems very strange	Refine the whole paragraph and clarify which part is for ax and which part is for ah. Maybe should also add ah spec as a reference	2017/1/9 9:42
6090	Jian Yu	225	1	78	27	T	Y	78.27	HE Link Adaptation detail is missing, the capable bits come out of nowhere	Add the detail of HE lnk adaptation and modify the capable field according to the detail	2017/1/9 9:42
6091	Jian Yu	225	1	79	42	T	Y	79.42	Maximum AMPDU Length Exponent description is missing	Add the detail description	2017/1/9 9:42
6092	Jian Yu	225	1	91	39	T	Y	91.39	Duplicate description of the BSS color field	Delete the pragraph from Line 39 to 42	2017/1/9 9:42
6093	Jian Yu	225	1	93	51	T	Y	93.51	EOCWmin is an abbreviation of what? Should add the full name of EOCW	As in comment	2017/1/9 9:42
6094	Jian Yu	225	1	107	1	T	Y	107.01	The first line should also include HE PPDU, i.e., VHT or HE PPDU, same for Line 14	Add "or HE" between VHT and PPDU	2017/1/9 9:42
6095	Jian Yu	225	1	120	7	E	Y	120.07	Add a space before Specially	As in comment	2017/1/9 9:42
6096	Jian Yu	225	1	159	16	E	Y	159.16	Delete either	As in comment	2017/1/9 9:42
6097	Jian Yu	225	1	162	26	E	Y	162.26	A HE AP should be an HE AP	Modify as in comment, and also delete the period before.	2017/1/9 9:42
6098	Jian Yu	225	1	162	27	T	Y	162.27	Duplicated RU	Delete RU in the bracket	2017/1/9 9:42
6099	Jian Yu	225	1	162	56	T	Y	162.56	DL OFDMA with MIMO PPDU is not clear. DL OFDMA with MIMO support field is not shown in the HE Capabilities element. There is only DL MUMIMO On Partial Bandwidth field	Modify the paragraph accordingly	2017/1/9 9:42
6100	Jian Yu	225	1	164	46	E	Y	164.46	Duplicated period	Delete one of the two	2017/1/9 9:42
6101	Jian Yu	225	1	167	59	T	Y	167.59	Define TBD	As in comment	2017/1/9 9:42
6102	Jian Yu	225	1	168	46	E	Y	168.46	Duplicated "shall be set to"	Delete one of the two	2017/1/9 9:42
6103	Jian Yu	225	1	174	24	T	Y	174.24	NDP feedback report procedure lacks details	Add the details	2017/1/9 9:42
6104	Jian Yu	225	1	176	1	T	Y	176.01	A mechnasim to allow an AP to obtain UL CSI and do UL schedulign is missing.	Add the details, will bring a proposal	2017/1/9 9:42
6105	Jian Yu	225	1	137	42	T	Y	137.42	TWT Setup/Teardown frames are S1G category action frame and should be clarified that 802.11ax uses the same frames or some other frames.	As in comment	2017/1/9 9:42
6106	Jian Yu	225	1	172	23	T	Y	172.23	An emergency service mechanism should be introduced in UL OFDMA based random access procedure to further prioritize he emergency traffic	Add the details, will bring a proposal	2017/1/9 9:42
6107	Jian Yu	225	1	198	61	T	Y	198.61	Link adaptation using the HE variant HT Control field part lacks details	Add the details	2017/1/9 9:42
6108	Jian Yu	225	1	200	5	T	Y	200.05	Replace the figure with a high resolution one	As in comment	2017/1/9 9:42
6109	Jian Yu	225	1	211	26	E	Y	211.26	Use DL/UL instead of downlink and uplink	As in comment	2017/1/9 9:42
6110	Jian Yu	225	1	211	13	T	Y	211.13	DL OFDMA in the bracket doesn't truly reflect the previous sentence. It should be DL OFDMA without MU MIMO. DL MU MIMMO should be DL MU MIMO without OFDMA. It is better to have somewhere to define what is DL/UL OFDMA, DL/UL MU-MIMO, DL/UL MU MIMO with OFDMA.	As in comment	2017/1/9 9:42

6111	Jian Yu	225	1	220	13	T	Y	220.13	OFDMA MU PPDU is not clear.	Define OFDMA MU PPDU or replace with a more clear terminology, say, non-full BW MU PPDU, or HE MU PPDU using OFDMA transmission as on page 230	2017/1/9 9:42
6112	Jian Yu	225	1	238	58	E	Y	238.58	SIGB should be SIG-B	Modify across all the draft	2017/1/9 9:42
6113	Jian Yu	225	1	242	22	T	Y	242.22	Add HE-SIG-A-R before HE-SIG-B as in L27	As in comment	2017/1/9 9:42
6114	Jian Yu	225	1	249	40	T	Y	249.40	Power boosting should be reflected in the encoding process	As in comment	2017/1/9 9:42
6115	Jian Yu	225	1	274	6	T	Y	274.06	Further develop the spatial reuse field, same for page 274, L6 and page 276 L40	As in comment	2017/1/9 9:42
6116	Jian Yu	225	1	285	5	T	Y	285.05	Replace the figure with a high resolution one	As in comment	2017/1/9 9:42
6117	Jian Yu	225	1	286	5	T	Y	286.05	Replace the figure with a high resolution one	As in comment	2017/1/9 9:42
6118	Jian Yu	225	1	293	8	T	Y	293.08	y2y1y0 applies to not only 106-RU case	Add clarification	2017/1/9 9:42
6119	Jian Yu	225	1	301	64	T	Y	301.64	Add 4X HE-LTF and 0.8us GI as an optional mode	As in comment	2017/1/9 9:42
6120	Jian Yu	225	1	317	14	T	Y	317.14	B7-B15 can be used to indicate the length of a S-MPDU, so that the overhead caused by the delimtier can be 0.	As in comment and will bring a proposal	2017/1/9 9:42
6121	Jian Yu	225	1	282	51	T	Y	282.51	"L = 20" should be "L = 41 for the HE-SIG-B User Block field that contains information for two STAs, L=20 when the last User Block field contains information for one STA."	Modify as in comment	2017/1/9 9:42
6122	Jianhan Liu	225	1 Annex B		34	E	N	Annex B	In Annnex B, "HEW" should be chaned to "HE"	Change "HEW" to "HE"	2017/1/9 9:42
6123	Jianhan Liu	225	1 28.3.10.7.2	275	35	T	N	275.35 28.3.10.7.2	In "Table 28-16--HE-SIG-A field of an HE SU PPDU and HE extended range SU PPDU", B15 is defined as Doppler bit to indicate if Dopploer mode is applied. However, Doppler mode is not clearly defined.	Define the "Doppler Mode" in detail	2017/1/9 9:42
6124	Jianhan Liu	225	1 9.3.1.23	43	43	T	N	43.43 9.3.1.23	In "Table 9-25c--GI And LTF Type subfield encoding" includes option of 2x LTF+0.8us GI. Since the trigger-based PPDU has timing synchronizaion requirement of +/- 0.4 us, 0.8us GI is too short.	Remove the option 2x LTF + 0.8 ++s GI	2017/1/9 9:42
6125	Jianhan Liu	225	1 28.3.17.6.4	349	7	T	N	349.07 28.3.17.6.4	add the CCA rule for preamble puncturing	add the CCA rule for preamble puncturing	2017/1/9 9:42
6126	Jianhan Liu	225	1 28.2.2	221	18	E	N	221.18 28.2.2	change "channel bonding" to "preamble puncturing"	change "channel bonding" to "preamble puncturing"	2017/1/9 9:42
6127	Jing Ma	225	1	86	18	G	Y	86.18	Clarify SRP-based SR operation described here which is supposed to indicated by this subfield. SRP-based SR operation description is not clear in the draft.	as the comment	2017/1/9 9:42
6128	Jing Ma	225	1	99	12	G	N	99.12	Define the exact L3 FRAG ADDBA Request frame action field format	as the comment	2017/1/9 9:42
6129	Jing Ma	225	1	99	16	G	N	99.16	Define the exact L3 FRAG ADDBA Response frame action field format	as the comment	2017/1/9 9:42
6130	Jing Ma	225	1	99	18	G	N	99.18	Define the exact L3 FRAG ADDBA Response frame action field format	as the comment	2017/1/9 9:42
6131	Jing Ma	225	1	153	47	E	N	153.47	Clarify the definition of S-MPDU in the draft to avoid confusion. There is another description "sub frames of A-MPDU" in the draft. Does S-MPDU mean sub frame of A-MPDU?	Make the descriptions consistent or clarify the definition and describe the difference	2017/1/9 9:42
6132	Jing Ma	225	1	151	56	G	N	151.56	Clarify the benefit of updating two NAVs more clearly. The description about the need to run two NAVs in the draft is not clear enough. What if update one NAV considering OBSS-based SR operation (described in 27.9) which is simpler than running two NAVs.	as the comment	2017/1/9 9:42
6133	Jing Ma	225	1	154	26	E	N	154.26	Suggest to change "10.13.8 (Transport of S-MPDU)" which is not present in baseline (802.11-2016) to the "10.13.8 (Transport of VHT single MPDU)" which is present in baseline (802.11-2016)	as the comment	2017/1/9 9:42
6134	Jing Ma	225	1	155	53	E	N	155.53	Suggest to change the title of subclause 27.3.4.2 from "27.3.4.2 Level 1 dynamic defragmentation" to "27.3.4.2 Level 1 dynamic fragmentation"	as the comment	2017/1/9 9:42

6135	Jing Ma	225	1	157	49	G	N	157.49	A BA agreement supported Multi-STA BlockAck operation should be specified, because in baseline, the Block Ack session is established between a originator and a recipient by exchanging ADDBA Request frame, ADDBA Response, ADDBA DEL frame. A BA agreement session established among a originator and multiple recipients should be specified.	as the comment		2017/1/9 9:42
6136	Jing Ma	225	1	163	53	E	N	163.53	Suggest to change the title of subclause 27.5.2 from "UL MU operation" to 'HE UL MU operation' for keeping it consistent with 27.5. 1 HE DL MU operation	as the comment		2017/1/9 9:42
6137	Jing Ma	225	1	164	45	E	N	164.45	Suggest to remove a redundant period in the sentence.	as the comment		2017/1/9 9:42
6138	Jing Ma	225	1	168	45	E	N	168.45	Suggest to remove a redundant 'shall be set to' in the sentence.	as the comment		2017/1/9 9:42
6139	Jing Ma	225	1	174	17	T	Y	174.17	Clarify whether the short & long retry counter should be updated or not for every retransmission in random access operation	as the comment		2017/1/9 9:42
6140	Jing Ma	225	1	194	35	E	N	194.35	Suggest to revise the typo 'HE ER SU PPDU' to 'HE EX SU PPDU'	as the comment		2017/1/9 9:42
6141	Jing Ma	225	1	207	21	E	N	207.21	According to the description written below Figure 27-8, the 'Request AP MAC' and 'Requester AP' should be 'Responder AP MAC' and 'Responder AP SME' respectively in Figure 27-8	as the comment		2017/1/9 9:42
6142	Jing Ma	225	1	274	6	G	Y	274.06	Clarify SRP-based spatial reuse operation which is supposed to be disallowed by Spatial Reuse bits here. SRP-based SR operation description is not clear in the draft.	as the comment		2017/1/9 9:42
6143	Jing Ma	225	1		40	G	Y		Clarify SRP-based spatial reuse operation. There are some indication bits in frames which are defined to set or disallow SRP-based spatial reuse operation, but SRP-based SR operation description is not clear in the draft.	as the comment		2017/1/9 9:42
6144	Jing Ma	225	1	174	24	G	N	174.24	Clarify more details about NDP feedback report procedure such as which kind of trigger frame and how to solicit NDP feedback report.	as the comment		2017/1/9 9:42
6145	Jing Ma	225	1	175	40	G	N	175.40	Clarify what the last PPDU of MU cascading sequence means. Should it be DL HE PPDU or UL HE trigger-based PPDU, or either of them?	as the comment		2017/1/9 9:42
6146	Jing Ma	225	1	175	56	T	N	175.56	Clarify the contents possibly including in the HE trigger-based PPDU in the MU cascading sequence for avoiding confusion.	as the comment		2017/1/9 9:42
6147	Jing Ma	225	1	175	5	T	N	175.05	Clarify the operation in case of that HE MU PPDU and HE trigger-based PPDU exchange failure happens during the MU cascading sequence transmission. E.g. in Figure 27-2, if the first exchange of HE MU PPDU of AP and HE trigger-based PPDUs from STA1 and STA2, should AP invoke backoff procedure for the next try?	as the comment		2017/1/9 9:42
6148	Jing Ma	225	1	175	62	T	N	175.62	Recovery procedure should be specified in MU cascading sequence operation	as the comment		2017/1/9 9:42
6149	Jing Ma	225	1	190	12	E	N	190.12	Add a definition of SR PPDU for avoiding confusion.	as the comment		2017/1/9 9:42

6150	Jing Ma	225	1	190	50	G	N	190.50	the SR backoff procedure for SR delayed case (described form line 50 ~57) is covered by SR backoff procedure specified from line 59 ~ 61. Because the PHYCCARESET.request primitive is already specified to be issued at the end of the PPDU in case of SR_delayed (form line 36 ~ 37), the STA may resume its backoff procedure when the STA'S MAC sublayer issues the PHYCCARESET.request primitive at the end of PPDU, following the specification of SR backoff procedure described from line 59 ~ 61. Suggest to merge SR delayed case backoff procedure and SR backoff procedure together as "If an HE STA's MAC sublayer issues a PHY-CCARESET.request primitive and not update its NAV timer as allowed above, the HE STA may resume its backoff procedure when the medium condition is IDLE as defined in 10.22.2.2 (EDCA backoff procedure)."	as the comment		2017/1/9 9:42
6151	Jinjing Jiang	225	1 9.3.1.23.3	50	13	T	Y	50.13 9.3.1.23.3	Can MU-BAR frame solicit a ACK frame?	Please clarify		2017/1/9 9:42
6152	Jinjing Jiang	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	an HE MU PPDU could also be Uplink transmission from a STA of the same BSS to the associated AP	change to downlink HE MU PPDU		2017/1/9 9:42
6153	Jinjing Jiang	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	the sentence is redudant or not complete	delete it or clarify		2017/1/9 9:42
6154	Jinjing Jiang	225	1 27.5.2.6.1	172	35	T	Y	172.35 27.5.2.6.1	It seems only basic trigger and BSRP trigger could initiate random acess OFDMA, how about other variants, such as BQRP?	Please clarify		2017/1/9 9:42
6155	Jinjing Jiang	225	1 27.5.3	175	35	T	Y	175.35 27.5.3	Multi-STA Block Ack frame is a variant of BloackAck frame.	change to "at most one Ack or BlockAck frame..."		2017/1/9 9:42
6156	Jinjing Jiang	225	1 27.14.2	199	62	E	Y	199.62 27.14.2	The figure is not readable; it seems in the draft TF is not universally used for the acronym of Trigger Frame	redraw the figure; remove "(TF)"		2017/1/9 9:42
6157	Jinjing Jiang	225	1 27.8.2	189	8	T	Y	189.08 27.8.2	The sentence is broken. Meanwhile, it seems not very necessary to have this paragraph.	Rewrite the sentence or delete it		2017/1/9 9:42
6158	Jinjing Jiang	225	1 27.8.3	189	25	T	Y	189.25 27.8.3	The AP as the TOM initiator should be singled out rather than meshed in the descriptions for STAs	Put line 25 at the beginning of this section and clearly mention whether AP can have TOM indication		2017/1/9 9:42
6159	Jinjing Jiang	225	1 27.2.3	152	19	T	Y	152.19 27.2.3	The HEMUEDCATimer[AC] should be reset/restarted upon each triggered event including the AC	As in the comments		2017/1/9 9:42
6160	Jinjing Jiang	225	1 27.2.3	152	18	T	Y	152.18 27.2.3	There should be recommended guideline for HEMUEDCATimer setting to ensure channel access fairness between SU and MU	Please provide the details		2017/1/9 9:42
6161	Jinjing Jiang	225	1 27.5.2.6.2	173	36	E	Y	173.36 27.5.2.6.2	"AID value 0" should be changed into "AID 0"	As in the comments		2017/1/9 9:42
6162	Jinjing Jiang	225	1 27.5.1.1	162	49	E	Y	162.49 27.5.1.1	"The transmission of each RU" should be "The transmission on each RU"	As in the comments		2017/1/9 9:42
6163	Jinjing Jiang	225	1 27.5.1.3	163	19	T	Y	163.19 27.5.1.3	It is confusing to see "HE bandwidth query report opertion for DL MU" belongs to the DL MU operation. It should be similar to buffer status report operation, residing in the UL MU operation	As in the comments; please clarify		2017/1/9 9:42
6164	Jinjing Jiang	225	1 27.5.1.3	163	35	T	Y	163.35 27.5.1.3	The paragraph from line 35 to 50 should be rewritten to reflect that if an HE AP solicits the BQR report, the STA shall include in the HE trigger-baseed PPUD blabla...Current texts seems mandating the BAR A-Control fields in HE trigger-based PPDU even not being queried by the AP	As in the commnets		2017/1/9 9:42
6165	Jinjing Jiang	225	1 27.5.1.2	163	3	T	Y	163.03 27.5.1.2	Here HE MU PPDU payload seems only describing the DL version, how about the UL one	Add "DL" in front of the subsection title		2017/1/9 9:42
6166	Jinjing Jiang	225	1 27.5.2.2.1	165	1	T	Y	165.01 27.5.2.2.1	line 1-6 is a duplicate of line 18-19	As in the comments		2017/1/9 9:42
6167	Jinjing Jiang	225	1 27.5.2.2.1	164	46	T	Y	164.46 27.5.2.2.1	the non-associated STA for UL OFDMA-based random access is not defined in 27.5.2.6	Either remove line 46-48 or define it in 27.5.2.6		2017/1/9 9:42

6168	Jinjing Jiang	225	1 27.5.2.2.1	164	53	T	Y	164.53 27.5.2.2.1	What is S-MPDU? VHT single MPDU? It is not formally defined in the draft or 802.11-16; please quote the correct 10.13.8 section title; and if carried in VHT single MPDU, should "Are"-->"Is"	Define the term before use it		2017/1/9 9:42
6169	Jinjing Jiang	225	1 27.5.2.2.3	167	35	E	Y	167.35 27.5.2.2.3	"If the PPDU contains frames that are not Trigger frames in addition to a Trigger frame", confusing English	This line is awkward, please revise		2017/1/9 9:42
6170	Jinjing Jiang	225	1 27.11.6	198	24	T	Y	198.24 27.11.6	Are there only two options for SPATIAL_REUSE?	Please clarify		2017/1/9 9:42
6171	Jinjing Jiang	225	1 10.3.2.10.1	118	48	T	Y	118.48 10.3.2.10.1	For acknowledgement procedure for DL MU PPDU in SU format, it assumes that at most one STA does not have a BA session. Otherwise it is impossible to solicit two consequetive ACKs	Clarify the case that 2 or more STAs have a single Data MPDU contained in the HE MU PPDU for DL transmsssion		2017/1/9 9:42
6172	Jinjing Jiang	225	1 10.3.2.10.2	119	36	T	Y	119.36 10.3.2.10.2	Figure 10-12a: "A-MPDU with trigger contraining UL trigger information" is not a good description	change to "An A-MPDU containing UL trigger information"		2017/1/9 9:42
6173	Jinjing Jiang	225	1 10.3.2.10.3	120	12	T	Y	120.12 10.3.2.10.3	Multi-STA Block Ack frame is a variant of BloackAck frame.	Change to "is either a BlockAck frame or an Ack frame"		2017/1/9 9:42
6174	Jinjing Jiang	225	1 10.9	127	44	T	Y	127.44 10.9	A-Control field is actually a subfield	Change/check "A-Control field" to "A-Control subfield" throughout the draft; there are multiple other places have such a problem...		2017/1/9 9:42
6175	Jinjing Jiang	225	1 10.9	127	53	T	Y	127.53 10.9	Line 45-46 already states that the Control subfield must be supported by the STA	This paragraph is redundent		2017/1/9 9:42
6176	Jinjing Jiang	225	1 27.2.1	150	15	T	Y	150.15 27.2.1	It seems that to firmly determine whether a frame is intra-BSS or inter-BSS, in certain cases, the whole PPDU needs to be decoded rather than only looking at the BSS Color (e.g., dense environments with BSS color collision). However, certain spatial reuse mechanism needs to issue CCA reset primitive before the end of PPDU (see 27.9.2.1). The requirement seems contradicting each other, which leads to the infeasibility of spatial reuse.	Please clarify			2017/1/9 9:42
6177	Jin-Sam Kwak	225	1 27.2.2	150	57	T	Y	150.57 27.2.2	Although an AP solicits a STA using a Trigger frame, the STA may not respond to the Trigger frame due to the CS result. Following the current spec, the STA does not update its NAV and this would cause the interference.	We need a rule to make the STA to update its NAV when the STA is solicited an immediate response by the frame but the STA is not able to respond to the frame.		2017/1/9 9:42
6178	Jin-Sam Kwak	225	1 27.9	190	1	T	Y	190.01 27.9	We have the Spatial Reuse field in the HE-SIG-A and the well utilization of the field would be helpful.	Please define the SRP-based Spatial Reuse operation.		2017/1/9 9:42
6179	Jin-Sam Kwak	225	1 27.16.2	206	39	T	Y	206.39 27.16.2	In case that an AP uses the Dual Beacon, all of STAs associated with the AP should identify the same BSS Color change TBTT.	Please define the BSS Color change TBTT to be the same to all of STAs in a BSS when the BSS uses the Dual Beacon.		2017/1/9 9:42
6180	Jin-Sam Kwak	225	1 27.5.2.6.2	173	37	T	Y	173.37 27.5.2.6.2	Even though a STA receives a Trigger frame containing the User Info field that indicates the random access RU, the STA may not have a capability to transmit a frame on the RU.	If a STA does not have a capability to access the random access RU indicated by a Trigger frame, the STA should not decrease its OBO counter on the random access RU.		2017/1/9 9:42
6181	Jin-Sam Kwak	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	The spec should define the operation when a STA that is scheduled by a Trigger frame receives User Info fields indicating the random access RU.	As per comment		2017/1/9 9:42
6182	Jin-Sam Kwak	225	1 27.5.2.6.2	173	1	T	Y	173.01 27.5.2.6.2	The spec should define the random access procedure when the multiple BSSID function is used.	As per comment		2017/1/9 9:42
6183	Jin-Sam Kwak	225	1 27.10.4	193	58	T	Y	193.58 27.10.4	As discussed till now, the shorter Multi-STA BlockAck frame is desirable. When a STA receives all of nonzero length MPDUs with the corresponding EOF subfield set to 0 in a multi-TID A-MPDU, the STA can acknowledge the reception for the MPDUs using a Multi-STA BlockAck frame without the bitmap for the MPDUs indicating each TID.	Please extend the case of a Per STA Info subfield without the Block Ack Starting Sequence Control field and the Block Ack Bitmap field.			2017/1/9 9:42

6184	Jin-Sam Kwak	225	1 9.3.1.9.7	38	6	T	Y	38.06 9.3.1.9.7	As discussed till now, the shorter Multi-STA BlockAck frame is desirable. When a STA receives all of nonzero length MPDUs with the corresponding EOF subfield set to 0 in a multi-TID A-MPDU, the STA can acknowledge the reception for the MPDUs using a Multi-STA BlockAck frame without the bitmap for the MPDUs indicating each TID.	Please extend the case of a Per STA Info subfield without the Block Ack Starting Sequence Control field and the Block Ack Bitmap field.		2017/1/9 9:42
6185	Jin-Sam Kwak	225	1 9.7.3	109	3	T	Y	109.03 9.7.3	The current A-MPDU contents table prevents QoS No Ack Data aggregation with other QoS Data of other TIDs that solicit immediate responses	Update table 9-425		2017/1/9 9:42
6186	Jin-Sam Kwak	225	1 9.7.3	111	3	T	Y	111.03 9.7.3	In MU cascading, TXOP holder may transmit Ack/M-BA frame in response to HE TB PPDU aggregated with QoS Data not soliciting an immediate response. Table 9-426 must be updated	As in comment		2017/1/9 9:42
6187	Jin-Sam Kwak	225	1 27.10.4	193	32	T	Y	193.32 27.10.4	The criteria for distinguishing among S-MPDU, A-MPDU, and multiple TID A-MPDU is not clear enough	Need to clarify		2017/1/9 9:42
6188	Jin-Sam Kwak	225	1 27.5.2.6.2	173	45	T	Y	173.45 27.5.2.6.2	If a STA does not have any data to transmit, it shall not participate random access procedure, or, at least it shall not transmit anything including QoS Null even if its OBO becomes 0.	As per comment		2017/1/9 9:42
6189	Jin-Sam Kwak	225	1 10.22.2.8	133	25	T	Y	133.25 10.22.2.8	The baseline spec does not allow a transmission that exceeds the TXOP limit for any fragmentable data. TXOP limit rules must be updated for HE STAs capable of dynamic fragmentation.	As per comment		2017/1/9 9:42
6190	Jin-Sam Kwak	225	1 27.8.3	189	35	T	Y	189.35 27.8.3	The description of the normative behavior of OMI responder regarding UL MU Disable subfield is not clear enough	Need to clarify		2017/1/9 9:42
6191	Jin-Sam Kwak	225	1 9.2.4.6.4.7	28	1	T	Y	28.01 9.2.4.6.4.7	How an non-AP STA chooses each available channel bitmap subfield encoding (20/40/80/160) when reporting BQR in solicited/unsolicited modes? There should be a rule for BQR's BW bitmap selection.	As in comment.		2017/1/9 9:42
6192	Jin-Sam Kwak	225	1 27.8.1	188	22	T	Y	188.22 27.8.1	In 11.42 Notification of operating mode changes, AP's procedure for changing its operating mode setting is well described. However, it is not clear how AP can change its operating mode with OMI A-Control field. Throughout the section 27.8, please clarify the behavior of HE AP and HE non-AP STA respectively fro changing its operating mode with OMI A-Control.	As in comment.		2017/1/9 9:42
6193	Jin-Sam Kwak	225	1 28.3.17.6.4	349	7	T	Y	349.07 28.3.17.6.4	The current PHY-CCA.indication primitive only provides CCA results of primary, secondary, secondary40, and secondary80. In order to support BW options of current preamble puncturing mode, additional PHY-CCA.indication primitives should be defined.	As in comment.		2017/1/9 9:42
6194	Jin-Sam Kwak	225	1 9.4.2.218.3	84	26	T	Y	84.26 9.4.2.218.3	For UL HE MU PPDU transmission from an STA to an AP, the current SIG-A/B design incurs overhead because the current format is designed for DL MU signaling. SIG-B's RU allocation and User specific fields can be redundant overheads for UL HE MU PPDU.	Please specify UL HE MU PPDU's SIG-A/B signaling detail.		2017/1/9 9:42
6195	John Buffington	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	Non-associated behavior is not defined and marked as TBD. Can't determine ramifications of design until it is created and defined.	Solicit members for methods to satisfy the non-associated behavior.		2017/1/9 9:42
6196	John Buffington	225	1 27.5.2.5	171	39	T	Y	171.39 27.5.2.5	Unknown reference in description of "(#2190, 2191)".	Please clarify reference or remove it if it's a mistake.		2017/1/9 9:42
6197	John Buffington	225	1 28.3.11.5	317	46	T	Y	317.46 28.3.11.5	Unknown reference of "(#838)".	Please clarify reference or remove it if it's a mistake.		2017/1/9 9:42

6198 John Buffington	225	1 C.3	422	52	T	Y	422.52 C.3	Unknown reference of "(#1313)".	Please clarify reference or remove it if it's a mistake.		2017/1/9 9:42
6199 John Buffington	225	1 General			E	N	General	In Contents section, a number lines are missing a space (" ") between the Clause number and Clause name.	Where needed, please add space between Clause number and Clause name in the Contents section.		2017/1/9 9:42
6200 John Coffey	225	1 3.2	4	56	E	Y	4.56 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6201 John Coffey	225	1 3.2	4	60	E	Y	4.60 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6202 John Coffey	225	1 3.2	4	63	E	Y	4.63 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6203 John Coffey	225	1 3.2	5	2	E	Y	5.02 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6204 John Coffey	225	1 3.2	5	6	E	Y	5.06 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6205 John Coffey	225	1 3.2	5	10	E	Y	5.10 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6206 John Coffey	225	1 3.2	5	14	E	Y	5.14 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6207 John Coffey	225	1 3.2	5	31	E	Y	5.31 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6208 John Coffey	225	1 3.2	5	35	E	Y	5.35 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6209 John Coffey	225	1 3.2	5	39	E	Y	5.39 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6210 John Coffey	225	1 3.2	5	43	E	Y	5.43 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6211 John Coffey	225	1 3.2	5	47	E	Y	5.47 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6212 John Coffey	225	1 3.2	5	51	E	Y	5.51 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6213 John Coffey	225	1 3.2	5	55	E	Y	5.55 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6214 John Coffey	225	1 3.2	5	59	E	Y	5.59 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6215 John Coffey	225	1 3.2	6	11	E	Y	6.11 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6216 John Coffey	225	1 3.2	6	15	E	Y	6.15 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6217 John Coffey	225	1 3.2	6	19	E	Y	6.19 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6218 John Coffey	225	1 3.2	6	23	E	Y	6.23 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6219 John Coffey	225	1 3.2	6	27	E	Y	6.27 3.2	The definition style is inconsistent with the usage for other bandwidths.	Add "transmitted" before "using".		2017/1/9 9:42
6220 John Coffey	225	1 3.2	6	41	E	Y	6.41 3.2	"An high efficiency STA"?	Change "an" to "a".		2017/1/9 9:42
6221 John Coffey	225	1 3.2	6	44	E	Y	6.44 3.2	Why is the TA "represented by" the address defined in the text that follows. It "is" the address defined in the text that follows.	Change "It is represented by" to "The TA is".		2017/1/9 9:42
6222 John Coffey	225	1 3.2	6	47	E	Y	6.47 3.2	The "but with" text is too informal and colloquial for a Definitions section.	Change "by the IEEE ... set to 1" to "equal to the IEEE medium access control (MAC) individual address of the transmitting VHT STA in all bits except for the Individual/Group bit, which is set to 1."		2017/1/9 9:42
6223 John Coffey	225	1 3.2	6	50	T	Y	6.50 3.2	The definition of an HE dual beacon starts with an action: "A BSS transmits beacons in two PHY modes ...". This is very unclear. The BSS shall transmit beacons in two PHY modes? Or the BSS may transmit beacons in two PHY modes? And either way, what is this doing in a definitions section?	Rewrite the definition so that it defines the term purportedly being defined. In particular, if or when a BSS uses HE dual beacons, are both beacons "HE dual beacons", or is only the one transmitted in HE_EXT_SU PY format a dual beacon? Or is it the case that neither is, and instead the BSS is in "HE dual beacon mode"? And isn't it normally the case that beacons are transmitted by an "AP", not a BSS? Clarify.		2017/1/9 9:42
6224 John Coffey	225	1 3.2	6	50	E	Y	6.50 3.2	Case disgareement: "The beacons ... enables".	Change "enables" to "enable".		2017/1/9 9:42

6225 John Coffey	225	1 3.2	6	52	E	Y	6.52 3.2	What is meant by "in the whole BSS coverage"? It seems that something like "the whole area covered by the BSS" must be intended. But this raises more questions than it answers. The BSS coverage is normally defined by the area covered by the normal beacon: if a STA can't hear beacons, it isn't in the BSS in any useful sense. So the dual beacons, and the entire "extended range" functionality *expands* the BSS coverage. Is this the intention? If so, it would be better to say so, rather than claiming a different benefit.	Change "the whole BSS coverage" to "the entire coverage area of the BSS, as newly expanded by the HE dual beacon modes".		2017/1/9 9:42
6226 John Coffey	225	1 3.2	6	52	E	Y	6.52 3.2	The sentence "The beacons transmitted ... whole BSS coverage" describes a purported benefit of the feature being defined. Why is this kind of advocacy included in a definitions section? The section should stick to definitions and stay away from advertising and boosterism.	Delete the sentence.		2017/1/9 9:42
6227 John Coffey	225	1 3.2	6	50	E	Y	6.50 3.2	"High Efficient"?	Change to High Efficiency (or "Highly Efficient" if you like).		2017/1/9 9:42
6228 John Coffey	225	1 3.2	6	50	T	Y	6.50 3.2	The entire HE dual beacon mode purportedly enables increased BSS coverage. In dense deployments this will reduce spatial reuse, and thus will run counter to the main aims of the project. It serves to clutter up an already bloated draft amendment.	Delete the definition of HE dual beacon and all references to it in the draft.		2017/1/9 9:42
6229 John Coffey	225	1 4	9	20	E	Y	9.20 4	"... support operation in 20 MHz channel bandwidth only" is peculiar. The impression is given that 40 MHz and wider channels may not be used. Why is the "only" needed here?	Delete "only".		2017/1/9 9:42
6230 John Coffey	225	1 4	9	26	E	Y	9.26 4	"... support operation in 20 MHz channel bandwidth only" is peculiar. The impression is given that 40 MHz channels may not be used. Why is the "only" needed here?	Delete "only".		2017/1/9 9:42
6231 John Coffey	225	1 4	9	51	E	Y	9.51 4	Inconsistent style: other elements of the list no not end with a full stop.	Delete the full stop.		2017/1/9 9:42
6232 John Coffey	225	1 4	9	65	T	Y	9.65 4	"The Trigger frame schedule may be set" is unclear in multiple ways. Why the definite article? Is there only one possible schedule? The text also suggests that Trigger frames are usually scheduled (or always scheduled?).	Change to "Trigger frames may be scheduled ...".		2017/1/9 9:42
6233 John Coffey	225	1 4	9	51	T	Y	9.51 4	Is this "basic trigger" or "Basic Trigger"? The usage is inconsistent even on this page. In a list of what is mandatory it should be clear.	Change to "Basic Trigger".		2017/1/9 9:42
6234 John Coffey	225	1 4	9	65	T	Y	9.65 4	The sentence refers to "the" non-AP STA. This is very confusing. Which one?	Rewrite the sentence so that it makes sense.		2017/1/9 9:42
6235 John Coffey	225	1 4	9	64	T	Y	9.64 4	"Scheduled Trigger frames are sent" is unclear in several ways. Is this intended to convey that Scheduled Trigger frames shall be transmitted by APs, or that they may be transmitted?	Rewrite the sentence so that it is clear whether the behavior described is optional or mandatory.		2017/1/9 9:42
6236 John Coffey	225	1 4	9	64	E	Y	9.64 4	Generally throughout the draft frames are "transmitted". Here and in a handful of other cases they are "sent". It would be better to choose one term and stick to it.	Change "sent" to "transmitted".		2017/1/9 9:42
6237 John Coffey	225	1 6.3.4.2.2	12	7	E	Y	12.07 6.3.4.2.2	Inconsistent formatting: the text in the second column ends with a full stop, unlike the text in the table on the previous page.	Delete the full stop here, or add it in the earlier and all other cases.		2017/1/9 9:42
6238 John Coffey	225	1 6.3.7.2.2	12	39	E	Y	12.39 6.3.7.2.2	Inconsistent formatting: the text in the second column ends with a full stop, unlike the text in the table on the previous page.	Delete the full stop here, or add it in the earlier and all other cases.		2017/1/9 9:42

6239 John Coffey	225	1 6.3.8.4.2	13	6	E	Y	13.06 6.3.8.4.2	Inconsistent formatting: the text in the second column ends with a full stop, unlike the text in the table on the previous page.	Delete the full stop here, or add it in the earlier and all other cases.	2017/1/9 9:42
6240 John Coffey	225	1 6.3.11.2.2	13	40	E	Y	13.40 6.3.11.2.2	Inconsistent formatting: the text in the second column ends with a full stop, unlike the text in the table on the previous page.	Delete the full stop here, or add it in the earlier and all other cases.	2017/1/9 9:42
6241 John Coffey	225	1 6.3.11.2.2	13	49	E	Y	13.49 6.3.11.2.2	Inconsistent formatting: the text in the second column ends with a full stop, unlike the text in the table on the previous page.	Delete the full stop here, or add it in the earlier and all other cases.	2017/1/9 9:42
6242 John Coffey	225	1 6.3.27.4.2	14	13	E	Y	14.13 6.3.27.4.2	Inconsistent formatting: the text in the second column ends with a full stop, unlike the text in the table on the previous page.	Delete the full stop here, or add it in the earlier and all other cases.	2017/1/9 9:42
6243 John Coffey	225	1 6.3.27.4	13	59	E	Y	13.59 6.3.27.4	Subsection 6.3.27.4 is numbered twice.	Correct it.	2017/1/9 9:42
6244 John Coffey	225	1 6.3.27.4.2	13	61	E	Y	13.61 6.3.27.4.2	Subsection 6.3.27.4.2 is numbered twice.	Correct it.	2017/1/9 9:42
6245 John Coffey	225	1 9.2.4.1.8	19	35	E	Y	19.35 9.2.4.1.8	Generally throughout the draft frames are "transmitted". Here and in a handful of other cases they are "sent". It would be better to choose one term and stick to it.	Change "sent" to "transmitted".	2017/1/9 9:42
6246 John Coffey	225	1 9.2.4.1.8	19	37	E	Y	19.37 9.2.4.1.8	Generally throughout the draft frames are "transmitted". Here and in a handful of other cases they are "sent". It would be better to choose one term and stick to it.	Change "sent" to "transmitted".	2017/1/9 9:42
6247 John Coffey	225	1 9.2.4.1.8	19	35	E	Y	19.35 9.2.4.1.8	"The AP optionally sets" doesn't seem to be quite right.	Change to "The AP may set"	2017/1/9 9:42
6248 John Coffey	225	1 9.2.4.1.8	19	35	E	Y	19.35 9.2.4.1.8	In the sentence starting "The AP optionally sets", the first two instances of "and" seem to imply that all these cases are treated in the same way. That is, the behavior is optional for the AP, but if implemented, the same behavior applies to all of these cases. Is this the intention? There doesn't seem to be a compelling reason.	Change the first two instances of "and" to "or".	2017/1/9 9:42
6249 John Coffey	225	1 9.2.4.1.8	19	35	T	Y	19.35 9.2.4.1.8	The sentence is ambiguous. When we have a list of cases followed by a condition, are we supposed to interpret the condition as applying only to the last element of the list, or to the entire list? Here the "from which it has received" is a condition; does this condition apply to both the non-HE STA and HE STA cases, or only to the HE STA case?	Clarify the meaning.	2017/1/9 9:42
6250 John Coffey	225	1 9.2.4.1.8	19	35	E	Y	19.35 9.2.4.1.8	The sentence is too long. Too many conditions and qualifiers are strung together. "... and ... from which ... that contains ... in which ... and that ... that are ... and that is". This is practically unreadable.	Reword to simplify the sentence. Add a table or a diagram.	2017/1/9 9:42
6251 John Coffey	225	1 9.2.4.1.8	19	43	E	Y	19.43 9.2.4.1.8	"A TDLS peer STA optionally sets" doesn't seem to be quite right.	Change to "A TDLS peer STA may optionally set"	2017/1/9 9:42
6252 John Coffey	225	1 9.2.4.1.8	19	45	T	Y	19.45 9.2.4.1.8	The sentence is ambiguous. When we have a list of cases followed by a condition, are we supposed to interpret the condition as applying only to the last element of the list, or to the entire list? Here the "that has" is a condition; does this condition apply to both the non-HE STA and HE STA cases, or only to the HE STA case?	Clarify the meaning.	2017/1/9 9:42
6253 John Coffey	225	1 9.2.4.5.4	20	44	T	Y	20.44 9.2.4.5.4	Inconsistent terminology: in "DL HE MU PPDU", the STA type is in the middle, whereas in practically every oher instance the type is at the beginning.	Change "a DL HE MU PPDU" to "an HE DL MU PPDU".	2017/1/9 9:42

6254 John Coffey	225	1 9.2.4.5.4	20	48	E	Y	20.48 9.2.4.5.4	Inconsistent usage (in the same paragraph): is it HE Trigger-based PPDU or HE trigger-based PPDU? Usage throughout the draft is lopsidedly in favor of "HE trigger-based PPDU". The draft should choose one variant and stick to it.	Change "HE Trigger-based PPDU" to "HE trigger-based PPDU".	2017/1/9 9:42
6255 John Coffey	225	1 9.2.4.5.6	21	2	E	Y	21.02 9.2.4.5.6	Generally throughout the draft frames are "transmitted". Here and in a handful of other cases they are "sent". It would be better to choose one term and stick to it.	Change "sending" to "transmitting".	2017/1/9 9:42
6256 John Coffey	225	1 9.2.4.5.6	21	2	T	Y	21.02 9.2.4.5.6	Inconsistent terminology: in "non-AP HE STA", the STA type is in the middle, whereas in practically every oher instance the type is at the beginning.	Change "a non-AP HE STA" to "an HE non-AP STA".	2017/1/9 9:42
6257 John Coffey	225	1 9.2.4.6.4.2	23	60	E	Y	23.60 9.2.4.6.4.2	Missing text: "the number of OFDM symbols the Data field".	Add "in" before "the".	2017/1/9 9:42
6258 John Coffey	225	1 9.2.4.6.4.2	24	18	E	Y	24.18 9.2.4.6.4.2	Missing article: "all AP's antennas".	Change to "all the AP's antennas".	2017/1/9 9:42
6259 John Coffey	225	1 9.2.4.6.4.2	24	21	E	Y	24.21 9.2.4.6.4.2	Missing punctuation, inconsistent usage: "except for the value 31 that indicates" doesn't look quite right, and it's also inconsistent with the usage in the previous paragraph.	Change to "except for the value 31, which indicates".	2017/1/9 9:42
6260 John Coffey	225	1 9.2.4.6.4.3	24	63	E	Y	24.63 9.2.4.6.4.3	Confusing text: why "the" non-AP STA? Which one? Later in the paragraph we have "An AP".	Change "the" to "a".	2017/1/9 9:42
6261 John Coffey	225	1 9.2.4.6.4.4	25	9	E	Y	25.09 9.2.4.6.4.4	Missing or incorrect cross-reference: section 9.31.4 is referenced but no such section exists in the draft.	Correct it.	2017/1/9 9:42
6262 John Coffey	225	1 9.2.4.6.4.4	25	25	E	Y	25.25 9.2.4.6.4.4	The phrase "recommended number of spatial streams" is cryptic. More information should be provided about which party is recommending what to which other party.	Provide additional, clarifying information.	2017/1/9 9:42
6263 John Coffey	225	1 9.2.4.6.4.7	27	47	E	Y	27.47 9.2.4.6.4.7	"HE DL HE MU" has a superfluous "HE.	Delete the second instance of "HE".	2017/1/9 9:42
6264 John Coffey	225	1 9.2.4.6.4.7	27	64	E	Y	27.64 9.2.4.6.4.7	Inconsistent terminology: in "DL HE MU transmission", the STA type is in the middle, whereas in practically every oher instance the type is at the beginning.	Change "DL HE MU" to "HE DL MU".	2017/1/9 9:42
6265 John Coffey	225	1 9.2.4.6.4.7	28	14	E	Y	28.14 9.2.4.6.4.7	Inconsistent usage: in this entry, the two cases are separated by ba comma, whereas in all others they're separated by an "and".	Change "," to "and".	2017/1/9 9:42
6266 John Coffey	225	1 9.2.5.2	31	19	E	Y	31.19 9.2.5.2	Inconsistent usage: here we have "a MU-BAR", whereas in most other cases we have "an MU-BAR". It would be better to choose one form and to stick to it.	Change "a" to "an".	2017/1/9 9:42
6267 John Coffey	225	1 9.2.5.2	31	33	E	Y	31.33 9.2.5.2	"... time required to transmit multiple BlockAck frames" is inexact.	Add "associated" or "applicable" somewhere.	2017/1/9 9:42
6268 John Coffey	225	1 9.2.5.2	32	4	E	Y	32.04 9.2.5.2	Repeated text: "time already used time".	Delete one instance of "time".	2017/1/9 9:42
6269 John Coffey	225	1 9.2.5.7	32	44	E	Y	32.44 9.2.5.7	Missing article: "in HE trigger-based PPDU".	Change to "in an HE trigger-based PPDU".	2017/1/9 9:42
6270 John Coffey	225	1 9.2.5.7	32	44	E	Y	32.44 9.2.5.7	"... rule of setting ..."? This is the only instance of "rule of" in the entire draft, and it seems odd. "Rule of law", "rule "for" setting".	Change to "rule for setting".	2017/1/9 9:42
6271 John Coffey	225	1 9.3.1.5	33	19	E	Y	33.19 9.3.1.5	Inconsistent usage: throughout the draft we have "an" HE STA, but here we have "a" HE STA.	Change "a" to "an".	2017/1/9 9:42
6272 John Coffey	225	1 9.3.1.8.1	33	45	T	Y	33.45 9.3.1.8.1	Inconsistent usage: here we have "The TA field value is". In many (most?) other places in the draft we have "The TA field is". What distinction is intended between these two forms? If no distinction is intended, the same form should be used.	Delete "value".	2017/1/9 9:42
6273 John Coffey	225	1 9.3.1.8.1	33	49	T	Y	33.49 9.3.1.8.1	Inconsistent usage: here we have "The TA field value is". In many (most?) other places in the draft we have "The TA field is". What distinction is intended between these two forms? If no distinction is intended, the same form should be used.	Delete "value".	2017/1/9 9:42

6274 John Coffey	225	1 9.3.1.9.1	34	22	E	Y	34.22 9.3.1.9.1	"The RA field of the BlockAck frame that is not a Multi-STA BlockAck variant"?	Change "the BlockAck frame" to "a BlockAck frame".	2017/1/9 9:42
6275 John Coffey	225	1 9.3.1.9.1	34	38	T	Y	34.38 9.3.1.9.1	Inconsistent usage: here we have "The TA field value is". In many (most?) other places in the draft we have "The TA field is". What distinction is intended between these two forms? If no distinction is intended, the same form should be used.	Delete "value".	2017/1/9 9:42
6276 John Coffey	225	1 9.3.1.9.1	34	51	E	Y	34.51 9.3.1.9.1	"... does not ... and ..."?	Change the last "and" to "or".	2017/1/9 9:42
6277 John Coffey	225	1 9.3.1.9.1	35	47	E	Y	35.47 9.3.1.9.1	Inconsistent usage: "in the Table". This construction appears many times in the draft, but nevertheless it doesn't even have consistency as an argument in its favor, since "in Table x.y" also appears many times.	Change "in the Table" to "in Table".	2017/1/9 9:42
6278 John Coffey	225	1 9.3.1.9.7	37	24	E	Y	37.24 9.3.1.9.7	Superfluous comma.	Delete it.	2017/1/9 9:42
6279 John Coffey	225	1 9.3.1.9.7	38	36	E	Y	38.36 9.3.1.9.7	Incorrect rendering of defined term: "VHT Single MPDU". The baseline defines "VHT single MPDU".	Change "VHT Single MPDU" to "VHT single MPDU".	2017/1/9 9:42
6280 John Coffey	225	1 9.3.1.9.7	39	39	E	Y	39.39 9.3.1.9.7	Inconsistent usage: "in the Table". This construction appears many times in the draft, but nevertheless it doesn't even have consistency as an argument in its favor, since "in Table x.y" also appears many times.	Change "in the Table" to "in Table".	2017/1/9 9:42
6281 John Coffey	225	1 9.3.1.9.7	39	52	E	Y	39.52 9.3.1.9.7	Inconsistent usage: "in the Table". This construction appears many times in the draft, but nevertheless it doesn't even have consistency as an argument in its favor, since "in Table x.y" also appears many times.	Change "in the Table" to "in Table".	2017/1/9 9:42
6282 John Coffey	225	1 9.3.1.20	40	24	E	Y	40.24 9.3.1.20	Inconsistent usage: here we have the STA Info "subfield", whereas everywhere else in the draft it's the STA Info "field". If the same thing is intended, the same term should be used.	Change "subfield" to "field". (Or change all instances of "STA Info field" to "STA Info subfield" throughout the draft.)	2017/1/9 9:42
6283 John Coffey	225	1 9.3.1.20	41	1	E	Y	41.01 9.3.1.20	Missing space: "inTable".	Change to "in Table".	2017/1/9 9:42
6284 John Coffey	225	1 9.3.1.20	41	2	E	Y	41.02 9.3.1.20	Missing full stop.	Add full stop.	2017/1/9 9:42
6285 John Coffey	225	1 9.3.1.20	41	28	E	Y	41.28 9.3.1.20	"... it's ..." Tut, tut.	Fix.	2017/1/9 9:42
6286 John Coffey	225	1 9.3.1.20	41	29	E	Y	41.29 9.3.1.20	Inconsistent usage: here we have the "HE STA info" field or subfield or whatver, whereas in the rest of the draft we have simply "STA Info" field or subfield. If the same item is being referenced, the same term should be used.	Delete "HE".	2017/1/9 9:42
6287 John Coffey	225	1 9.3.1.20	41	29	E	Y	41.29 9.3.1.20	Missing noun: HE STA Info what?	Chage to "HE STA Info field".	2017/1/9 9:42
6288 John Coffey	225	1 9.3.1.23	41	59	E	Y	41.59 9.3.1.23	Missing space: "STA.If"	Add space.	2017/1/9 9:42
6289 John Coffey	225	1 9.3.1.23	41	61	E	Y	41.61 9.3.1.23	Missing space: "address.If".	Add space.	2017/1/9 9:42
6290 John Coffey	225	1 9.3.1.23	41	65	T	Y	41.65 9.3.1.23	Inconsistent usage: here we have "The TA field value is". In many (most?) other places in the draft we have "The TA field is". What distinction is intended between these two forms? If no distinction is intended, the same form should be used.	Delete "value".	2017/1/9 9:42
6291 John Coffey	225	1 9.3.1.23	44	62	E	Y	44.62 9.3.1.23	Inconsistent usage: "For HE trigger-based PPDU".	Change to "For an HE trigger-based PPDU".	2017/1/9 9:42
6292 John Coffey	225	1 9.3.1.23	45	7	E	Y	45.07 9.3.1.23	Inconsistent usage: "When operating 40 MHz". Sundry variations appear throughout the draft. It would be better to select one and stick to it.	Change to "For 40 MHz channel width".	2017/1/9 9:42
6293 John Coffey	225	1 9.3.1.23	45	7	E	Y	45.07 9.3.1.23	"in 2.4GHz": missing article and missing space (inconsistent usage).	Change to "in the 2.4 GHz".	2017/1/9 9:42
6294 John Coffey	225	1 9.3.1.23	45	7	E	Y	45.07 9.3.1.23	Missing article: "to same values". At a stretch this construction might be acceptable if consistently followed, but the very next sentence has an article included.	Change to "to the same values".	2017/1/9 9:42
6295 John Coffey	225	1 9.3.1.23	45	8	E	Y	45.08 9.3.1.23	Missing article: "SR field 3 is set to same value". Inconsistent usage within the same sentence.	Change to "SR field is set to the same value".	2017/1/9 9:42
6296 John Coffey	225	1 9.3.1.23	45	11	E	Y	45.11 9.3.1.23	Missing capitalization. "Doppler" is a proper noun.	Change "doppler" to "Doppler".	2017/1/9 9:42

6297	John Coffey	225	1 9.3.1.23	45	16	E	Y	45.16 9.3.1.23	Missing term: "in the HE-SIG-A2 of the"	Change to "in the HE-SIG-A2 subfield of the".	2017/1/9 9:42
6298	John Coffey	225	1 9.3.1.23	45	14	E	Y	45.14 9.3.1.23	Missing article and missing term: "in HE-SIG-A2 of the".	Change to "in the HE-SIG-A2 subfield of the".	2017/1/9 9:42
6299	John Coffey	225	1 9.3.1.23	45	17	E	Y	45.17 9.3.1.23	Missing term: "in the HE-SIG-A2 of the"	Change to "in the HE-SIG-A2 subfield of the".	2017/1/9 9:42
6300	John Coffey	225	1 9.3.1.23	45	37	E	Y	45.37 9.3.1.23	Missing space" access.User".	Add space.	2017/1/9 9:42
6301	John Coffey	225	1 9.3.1.23	45	38	E	Y	45.38 9.3.1.23	Peculiar usage: "not equals to 0".	Change to "not equal to 0".	2017/1/9 9:42
6302	John Coffey	225	1 9.3.1.23	46	27	E	Y	46.27 9.3.1.23	The text "for a 20 MHz, 40 MHz, and 80 MHz PPDU" seems odd (case agreement, for one thing).	Change to "for 20 MHz, 40 MHz, and 80 MHz PPDUs".	2017/1/9 9:42
6303	John Coffey	225	1 9.3.1.23	46	33	E	Y	46.33 9.3.1.23	Confusing language: "in an increeasing order". Why "an"? Is there more than one order?	Delete "an".	2017/1/9 9:42
6304	John Coffey	225	1 9.3.1.23	46	42	E	Y	46.42 9.3.1.23	Confusing language: "in an increeasing order". Why "an"? Is there more than one order?	Delete "an".	2017/1/9 9:42
6305	John Coffey	225	1 9.3.1.23	46	52	E	Y	46.52 9.3.1.23	Confusing language: "in an increeasing order". Why "an"? Is there more than one order?	Delete "an".	2017/1/9 9:42
6306	John Coffey	225	1 9.3.1.23	46	47	E	Y	46.47 9.3.1.23	Missing details: the sentence beginning "Similar ordering" invites the reader to fill in details. Why not provide the details directly?	Delete the sentence beginning with "Similar ordering" and replace it with text providing the relevant details.	2017/1/9 9:42
6307	John Coffey	225	1 9.3.1.23	46	54	E	Y	46.54 9.3.1.23	Missing details: the sentence beginning "Similar ordering" invites the reader to fill in details. Why not provide the details directly?	Delete the sentence beginning with "Similar ordering" and replace it with text providing the relevant details.	2017/1/9 9:42
6308	John Coffey	225	1 9.3.1.23	46	59	E	Y	46.59 9.3.1.23	Inexact (and inconsistent) usage: inappropriate use of imperative.	Change sentence to 'It is set to 0 for BCC and is set to 1 for LDPC."	2017/1/9 9:42
6309	John Coffey	225	1 9.3.1.23	47	3	T	Y	47.03 9.3.1.23	"A value of 1 indicates that the HE trigger-based PPDU shall use DCM as defined in 28.3.11.15". But DCM (as defined in 28.3.11.15) is an optional mode. Is the idea that the bit can only be set to 1 if the STA has indicated support for DCM? What is the expected behavior if the STA has not indicated support for DCM but this bit is set to 1 anyway?	Add text restricting the cases in which the bit can be set to 1, and providing error recovery if the bit is set incorrectly.	2017/1/9 9:42
6310	John Coffey	225	1 9.3.1.23	47	5	E	Y	47.05 9.3.1.23	Ungrammatical language: "A value of 0 indicates that DCM is not be used."	Change to "... is not to be used". Or to "is not being used". Or "... shall not be used" (to mirror the language in the preceding sentence, to which it corresponds).	2017/1/9 9:42
6311	John Coffey	225	1 9.3.1.9.7	38	39	E	Y	38.39 9.3.1.9.7	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6312	John Coffey	225	1 9.3.1.9.7	38	19	E	Y	38.19 9.3.1.9.7	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6313	John Coffey	225	1 9.3.1.9.7	39	38	E	Y	39.38 9.3.1.9.7	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6314	John Coffey	225	1 9.3.1.23	41	42	E	Y	41.42 9.3.1.23	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6315	John Coffey	225	1 9.3.1.23	46	64	E	Y	46.64 9.3.1.23	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42

6316 John Coffey	225	1 9.3.1.23.5	51	20	E	Y	51.20 9.3.1.23.5	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6317 John Coffey	225	1 9.3.1.23.7	51	60	E	Y	51.60 9.3.1.23.7	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6318 John Coffey	225	1 9.4.2.221	94	53	E	Y	94.53 9.4.2.221	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6319 John Coffey	225	1 9.4.2.221	94	60	E	Y	94.60 9.4.2.221	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6320 John Coffey	225	1 9.4.2.222	95	28	E	Y	95.28 9.4.2.222	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6321 John Coffey	225	1 28.3.8	266	60	E	Y	266.60 28.3.8	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6322 John Coffey	225	1 28.3.11.9	324	41	E	Y	324.41 28.3.11.9	Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it.	Delete "as".	2017/1/9 9:42
6323 John Coffey	225	1 9.3.1.23	44	57	T	Y	44.57 9.3.1.23	Inconsistent terminology: here we have "the trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6324 John Coffey	225	1 9.3.1.23	44	62	E	Y	44.62 9.3.1.23	Missing article: "for HE trigger-based PPDU".	Change to "for an HT trigger-based PPDU".	2017/1/9 9:42
6325 John Coffey	225	1 9.3.1.23	46	33	T	Y	46.33 9.3.1.23	Imprecise language: "in an increasing order". Why "an"?	Delete "an".	2017/1/9 9:42
6326 John Coffey	225	1 9.3.1.23	46	42	T	Y	46.42 9.3.1.23	Imprecise language: "in an increasing order". Why "an"?	Delete "an".	2017/1/9 9:42
6327 John Coffey	225	1 9.3.1.23	46	51	T	N	46.51 9.3.1.23	Imprecise language: "in an increasing order". Why "an"?	Delete "an".	2017/1/9 9:42
6328 John Coffey	225	1 9.3.1.23.4	50	28	T	Y	50.28 9.3.1.23.4	Inconsistent usage: here we have "The TA field value is". In many (most?) other places in the draft we have "The TA field is". What distinction is intended between these two forms? If no distinction is intended, the same form should be used.	Delete "value".	2017/1/9 9:42
6329 John Coffey	225	1 9.3.1.23.4	50	61	T	Y	50.61 9.3.1.23.4	Imprecise language: "in an increasing order". Why "an"?	Delete "an".	2017/1/9 9:42
6330 John Coffey	225	1 9.3.3.1	52	43	E	Y	52.43 9.3.3.1	Typographical error: "pre-sent".	Change to "present".	2017/1/9 9:42
6331 John Coffey	225	1 9.3.3.6	53	36	E	Y	53.36 9.3.3.6	Typographical error: "pre-sent".	Change to "present".	2017/1/9 9:42
6332 John Coffey	225	1 9.3.3.8	54	30	E	Y	54.30 9.3.3.8	Typographical error: "pre-sent".	Change to "present".	2017/1/9 9:42
6333 John Coffey	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11	Typographical error: "pre-sent".	Change to "present".	2017/1/9 9:42
6334 John Coffey	225	1 9.4.1.62	56	46	E	Y	56.46 9.4.1.62	Inconsistent terminology: here we have "indexes", whereas in all other places in the draft we have "indices". It would be better to select one form and to stick to it.	Change "indexes" to "indices".	2017/1/9 9:42
6335 John Coffey	225	1 9.4.1.63	58	14	E	Y	58.14 9.4.1.63	Clumsy language: "explanation on". Whether it is incorrect, or simply a rare alternative to "explanation of", it should be changed.	Change to "explanation of".	2017/1/9 9:42

6336 John Coffey	225	1 9.4.1.63	58	17	E	Y	58.17 9.4.1.63	Strange run-on sentence: "... Beamforming Feedback Matrix subfield), Nc is ...". Why is there a comma here?	Change comma to full stop.	2017/1/9 9:42
6337 John Coffey	225	1 9.4.1.63	58	16	E	Y	58.16 9.4.1.63	Puzzling and ambiguous construction: in the sentence beginning "The explanation on ...", are we to understand that 19.3.12.3.6 is in Table 9-67?	Clarify in one way or another. For example, it might be worth splitting this sentence up into several shorter ones.	2017/1/9 9:42
6338 John Coffey	225	1 9.4.1.63	58	18	E	Y	58.18 9.4.1.63	Missing conjunction: ", Nr is".	Change to ", and Nr is".	2017/1/9 9:42
6339 John Coffey	225	1 9.4.1.63	58	24	T	Y	58.24 9.4.1.63	In the context of a draft specification, what exactly is meant by the wording "The beamforming matrix V is formed by the beamformee as follows"? Is this intended as a mandatory requirement, or is it a recommendation? At present it's worded simply as a statement of fact. If the beamformee carries this step out incorrectly, would the device be non-compliant with the specification?	Rewrite to clarify whether the actions described are mandatory or optional.	2017/1/9 9:42
6340 John Coffey	225	1 9.4.1.63	58	24	E	Y	58.24 9.4.1.63	Detailed accounts of receiver behavior are not generally included in other places of the draft or in the base standard. Since we're defining a standardized air interface, receiver details are normally not included.	Reowrd to eliminate the receiver point of view. This can be done by changing the description to what the transmitter is conveying and/or a description of what a receiver may do.	2017/1/9 9:42
6341 John Coffey	225	1 9.4.1.63	58	26	T	Y	58.26 9.4.1.63	Imprecise language: "estimates the ... channel, and based on that channel ...". As worded, the basis appears to be the channel, not the estimated channel. If the esimated channel is meant, say so.	Change "based on that channel" to "based on that estimated channel".	2017/1/9 9:42
6342 John Coffey	225	1 9.4.1.63	63	23	E	Y	63.23 9.4.1.63	Unusual usage: "with the column l".	Change to "with column l".	2017/1/9 9:42
6343 John Coffey	225	1 9.4.1.64	64	6	E	Y	64.06 9.4.1.64	Confusing wording: "for each of the space time stream (1 to Nc)".	Change to "for each space time stream" or "for each of the space time streams".	2017/1/9 9:42
6344 John Coffey	225	1 9.4.1.64	64	9	E	Y	64.09 9.4.1.64	In the sentence "Starting from the lowest frequency subcarrier and continuing to the highest frequency subcarrier.", where is the verb?	Add a verb or otherwise rephrase.	2017/1/9 9:42
6345 John Coffey	225	1 9.4.1.64	64	11	E	Y	64.11 9.4.1.64	Missing article: "for delta SNR subfield".	Add "the" after "for".	2017/1/9 9:42
6346 John Coffey	225	1 9.4.1.64	64	11	E	Y	64.11 9.4.1.64	Is this the "delta SNR subfield" or the "Delta SNR subfield"? As a named subfield it should be capitalized.	Change "delta SNR" to "Delta SNR".	2017/1/9 9:42
6347 John Coffey	225	1 9.4.2.169	68	56	T	Y	68.56 9.4.2.169	Confusing variation in terms: here we have "HE fragmentation Operation subfield", whereas elsewhere we have "HE Fragmentation Operation subfield". Are these variants all describing the same thing? If so, the same term must be used.	Change "HE fragmentation Operation subfield" to "HE Fragmentation Operation subfield".	2017/1/9 9:42
6348 John Coffey	225	1 9.4.2.169	68	57	T	Y	68.57 9.4.2.169	Confusing variation in terms: here we have "HE fragmentation operation subfield", whereas elsewhere we have "HE Fragmentation Operation subfield" (and earlier in the same paragraph we have "HE fragmentation Operation subfield). Are these variants all describing the same thing? If so, the same term must be used.	Change "HE fragmentation operation subfield" to "HE Fragmentation Operation subfield".	2017/1/9 9:42
6349 John Coffey	225	1 9.4.2.169	69	59	E	Y	69.59 9.4.2.169	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6350 John Coffey	225	1 9.4.2.200	71	4	E	Y	71.04 9.4.2.200	Unclear wording: ": .. contains 0s as the TWT ..." looks at first sight as if the TWT whatever contains 0s. In context it seems that the "as" means "because" here. The stray clause tacked on at the end by a comma doesn't help.	Change "as" to "because".	2017/1/9 9:42
6351 John Coffey	225	1 9.4.2.200	71	4	E	Y	71.04 9.4.2.200	The sentence in the fifth column has independent clasues linked by a comma without a coordinating conjunction. This is ungrammatical usage and it hurts clarity.	Change the comma to a semicolon.	2017/1/9 9:42
6352 John Coffey	225	1 9.4.2.200	73	9	T	Y	73.09 9.4.2.200	Garbled text: "Feedback can be contained is the QoS Control field".	Change "is" to "in".	2017/1/9 9:42

6353	John Coffey	225	1 9.4.2.200	73	34	T	Y	73.34 9.4.2.200	Garbled text: "Feedback can be contained is the QoS Control field".	Change "is" to "in".	2017/1/9 9:42
6354	John Coffey	225	1 9.4.2.200	74	4	E	Y	74.04 9.4.2.200	Anthropomorphism: "the TWT requesting STA expects". The STA is an object and does not "expect" anything.	Reword to remove the anthoropomorphism.	2017/1/9 9:42
6355	John Coffey	225	1 9.4.2.200	74	7	E	Y	74.07 9.4.2.200	Anthropomorphism: "the TWT requesting STA expects". The STA is an object and does not "expect" anything.	Reword to remove the anthoropomorphism.	2017/1/9 9:42
6356	John Coffey	225	1 9.4.2.200	74	21	E	Y	74.21 9.4.2.200	Inconsistent usage / "wicked which": here we have "which corresponds", whereas in most other places in the draft we have "that corresponds".	Change "which" to "that".	2017/1/9 9:42
6357	John Coffey	225	1 9.4.2.200	74	27	E	Y	74.27 9.4.2.200	Inconsistent usage / "wicked which": here we have "which corresponds", whereas in most other places in the draft we have "that corresponds".	Change "which" to "that".	2017/1/9 9:42
6358	John Coffey	225	1 9.4.2.200	74	36	E	Y	74.36 9.4.2.200	Independent clauses linked by a comma without a coordinating conjunction.	Change comma to semicolon.	2017/1/9 9:42
6359	John Coffey	225	1 9.4.2.200	74	43	E	Y	74.43 9.4.2.200	Superfluous comma: ", is not present".	Delete comma.	2017/1/9 9:42
6360	John Coffey	225	1 9.4.2.200	74	59	E	Y	74.59 9.4.2.200	Missing space: "BSS.The".	Add space.	2017/1/9 9:42
6361	John Coffey	225	1 9.4.2.200	75	20	E	Y	75.20 9.4.2.200	Incomplete case switch: "that (those) TWTs" reads as "that TWTs or those TWTs". To be consistent the "TWTs" needs to be modified also.	Change "TWTs" to "TWT(s)".	2017/1/9 9:42
6362	John Coffey	225	1 9.4.2.200	75	49	E	Y	75.49 9.4.2.200	Incomplete case switch: "that (those) TWTs" reads as "that TWTs or those TWTs". To be consistent the "TWTs" needs to be modified also.	Change "TWTs" to "TWT(s)".	2017/1/9 9:42
6363	John Coffey	225	1 9.4.2.200	75	50	T	Y	75.50 9.4.2.200	The second case here is when the relevant STA is not an S1G STA, whereas earlier in the same section (P75 L20) the condition is "within an HE BSS". Is there some distinction intended? Can TWT be used in non-S1G, non-HE BSSs?	Change "is not an S1G STA" to "is an HE STA".	2017/1/9 9:42
6364	John Coffey	225	1 9.4.2.218.2	77	21	E	Y	77.21 9.4.2.218.2	Inconsistent usage: here we have "Indicates if the STA supports", whereas elsewhere in the same table we have "Indicates support by an HE STA". It would be better to pick one form and to stick to it.	Change "Indicates if the STA supports" to "Indicates support by an HE STA for".	2017/1/9 9:42
6365	John Coffey	225	1 9.4.2.218.2	77	39	E	Y	77.39 9.4.2.218.2	In the Definitions column, we have "a STA", whereas elsewhere in the same column we (mostly) have "an HE STA". Is any distinction intended? If not, the same term should be used.	Change "a STA" to "an HE STA".	2017/1/9 9:42
6366	John Coffey	225	1 9.4.2.218.2	77	40	E	Y	77.40 9.4.2.218.2	Inconsistent usage: we have both "a S-MPDU" and "an S-MPDU" in the draft. Though the former is used more often, the latter seems correct.	Change "a S-MPDU" to "an S-MPDU".	2017/1/9 9:42
6367	John Coffey	225	1 9.4.2.218.2	77	41	E	Y	77.41 9.4.2.218.2	Inconsistent usage: we have both "a S-MPDU" and "an S-MPDU" in the draft. Though the former is used more often, the latter seems correct.	Change "a S-MPDU" to "an S-MPDU".	2017/1/9 9:42
6368	John Coffey	225	1 9.4.2.218.2	77	43	T	Y	77.43 9.4.2.218.2	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42
6369	John Coffey	225	1 9.4.2.218.2	77	46	T	Y	77.46 9.4.2.218.2	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42

6370 John Coffey	225	1 9.4.2.218.2	77	48	T	Y	77.48 9.4.2.218.2	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42
6371 John Coffey	225	1 9.4.2.218.2	77	52	T	Y	77.52 9.4.2.218.2	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42
6372 John Coffey	225	1 9.4.2.218.2	77	56	E	Y	77.56 9.4.2.218.2	In the Definitions column, we have "a STA", whereas elsewhere in the same column we (mostly) have "an HE STA". Is any distinction intended? If not, the same term should be used.	Change "a STA" to "an HE STA".	2017/1/9 9:42
6373 John Coffey	225	1 9.4.2.218.2	78	16	E	Y	78.16 9.4.2.218.2	In the Definitions column, we have "a non-AP STA", whereas elsewhere in the same column we have "an HE STA".	Change "a non-AP STA" to "an HE non-AP STA".	2017/1/9 9:42
6374 John Coffey	225	1 9.4.2.218.2	78	26	E	Y	78.26 9.4.2.218.2	Inconsistent usage: here we have "Indicates whether the STA supports", whereas elsewhere in the same table we have "Indicates support by an HE STA". It would be better to pick one form and to stick to it.	Change "Indicates whether the STA supports" to "Indicates support by an HE STA for".	2017/1/9 9:42
6375 John Coffey	225	1 9.4.2.218.2	78	38	E	Y	78.38 9.4.2.218.2	Inconsistent usage: here we have "Indicates whether the STA supports", whereas elsewhere in the same table we have "Indicates support by an HE STA". It would be better to pick one form and to stick to it.	Change "Indicates whether the STA supports" to "Indicates support by an HE STA for".	2017/1/9 9:42
6376 John Coffey	225	1 9.4.2.218.2	78	52	E	Y	78.52 9.4.2.218.2	In the Definitions column, we have "a non-AP STA", whereas elsewhere in the same column we have "an HE STA".	Change "a non-AP STA" to "an HE non-AP STA".	2017/1/9 9:42
6377 John Coffey	225	1 9.4.2.218.2	79	14	E	Y	79.14 9.4.2.218.2	In the Definitions column, we have "a STA", whereas elsewhere in the same column we (mostly) have "an HE STA". Is any distinction intended? If not, the same term should be used.	Change "a non-AP STA" to "an HE non-AP STA".	2017/1/9 9:42
6378 John Coffey	225	1 9.4.2.218.2	79	22	E	Y	79.22 9.4.2.218.2	In the Definitions column, we have "a non-AP STA", whereas elsewhere in the same column we have "an HE STA".	Change "a STA" to "an HE STA".	2017/1/9 9:42
6379 John Coffey	225	1 9.4.2.218.2	79	34	E	Y	79.34 9.4.2.218.2	Unusual and awkward syntax: "Indicates support for a [STA] to follow the OFDMA random access procedure ...".	Change to "Indicates suppport by [a STA] for the OFDMA random access procedure ...".	2017/1/9 9:42
6380 John Coffey	225	1 9.4.2.218.2	79	34	E	Y	79.34 9.4.2.218.2	In the Definitions column, we have "a non-AP STA", whereas elsewhere in the same column we have "an HE STA".	Change "a non-AP STA" to "an HE non-AP STA".	2017/1/9 9:42
6381 John Coffey	225	1 9.4.2.218.2	79	57	E	Y	79.57 9.4.2.218.2	Inconsistent usage: here we have "Indicates whether the non-AP STA supports", whereas elsewhere in the same table we have "Indicates support by an HE STA". It would be better to pick one form and to stick to it.	Change "Indicates whether the non-AP STA supports" to "Indicates support by an HE non-AP STA for".	2017/1/9 9:42
6382 John Coffey	225	1 9.4.2.218.2	79	57	E	Y	79.57 9.4.2.218.2	In the Definitions column, we have "a non-AP STA", whereas elsewhere in the same column we have "an HE STA".	Change "a non-AP STA" to "an HE non-AP STA".	2017/1/9 9:42
6383 John Coffey	225	1 9.4.2.218.2	79	57	E	Y	79.57 9.4.2.218.2	Inconsistent usage: here we have "the" STA, whereas in a majority of other cases in the same table we have "a" STA. Why the variation? It would be better to choose one form and to stick to it.	Change "the" to "a" or "an", as appropriate.	2017/1/9 9:42
6384 John Coffey	225	1 9.4.2.218.2	80	4	E	Y	80.04 9.4.2.218.2	Inconsistent usage: here we have "Indicates whether or not the STA", whereas elsewhere in the same table we have "Indicates support for". This is the fourth distinct variant in the same table.	Change "Indicates whether or not the STA supports" to "Indicates support for".	2017/1/9 9:42

6385 John Coffey	225	1 9.4.2.218.2	80	4	E	Y	80.04 9.4.2.218.2	In the Definitions column, we have "the STA", whereas elsewhere in the same table we have "an HE STA".	Change "the STA" to "an HE STA".	2017/1/9 9:42
6386 John Coffey	225	1 9.4.2.218.2	80	19	E	Y	80.19 9.4.2.218.2	In the Definitions column, we have "a non-AP STA", whereas elsewhere in the same column we have "an HE STA".	Change "a non-AP STA" to "an HE non-AP STA".	2017/1/9 9:42
6387 John Coffey	225	1 9.4.2.218.2	80	27	E	Y	80.27 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6388 John Coffey	225	1 9.4.2.218.2	80	27	E	Y	80.27 9.4.2.218.2	Missing article: in VHT Capabilities element".	Change to "in the VHT Capabilities element".	2017/1/9 9:42
6389 John Coffey	225	1 9.4.2.218.2	80	28	E	Y	80.28 9.4.2.218.2	Missing article: "of A-MPDU".	Change to "of an A-MPDU".	2017/1/9 9:42
6390 John Coffey	225	1 9.4.2.218.2	80	28	T	Y	80.28 9.4.2.218.2	Why "Receive" rather than "receive"? Is this a defined term?	Change "Receive" to "receive".	2017/1/9 9:42
6391 John Coffey	225	1 9.4.2.218.2	80	30	E	Y	80.30 9.4.2.218.2	Missing article: "When Maximum A-MPDU Length Exponent subfield".	Change to "When the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6392 John Coffey	225	1 9.4.2.218.2	80	31	E	Y	80.31 9.4.2.218.2	Missing article: "in Maximum A-MPDU Length Exponent subfield".	Change to "in the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6393 John Coffey	225	1 9.4.2.218.2	80	31	E	Y	80.31 9.4.2.218.2	Missing article: "in VHT Capabilities element".	Change to "in the VHT Capabilities element".	2017/1/9 9:42
6394 John Coffey	225	1 9.4.2.218.2	80	32	E	Y	80.32 9.4.2.218.2	Missing article: "of A-MPDU".	Change to "of an A-MPDU".	2017/1/9 9:42
6395 John Coffey	225	1 9.4.2.218.2	80	33	E	Y	80.33 9.4.2.218.2	Missing article: "When Maximum A-MPDU Length Exponent subfield".	Change to "When the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6396 John Coffey	225	1 9.4.2.218.2	80	32	T	Y	80.32 9.4.2.218.2	Why "Receive" rather than "receive"? Is this a defined term?	Change "Receive" to "receive".	2017/1/9 9:42
6397 John Coffey	225	1 9.4.2.218.2	80	33	E	Y	80.33 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6398 John Coffey	225	1 9.4.2.218.2	80	35	E	Y	80.35 9.4.2.218.2	Missing article: "in Maximum A-MPDU Length Exponent subfield".	Change to "in the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6399 John Coffey	225	1 9.4.2.218.2	80	35	E	Y	80.35 9.4.2.218.2	Missing article: "in VHT Capabilities element".	Change to "in the VHT Capabilities element".	2017/1/9 9:42
6400 John Coffey	225	1 9.4.2.218.2	80	35	E	Y	80.35 9.4.2.218.2	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6401 John Coffey	225	1 9.4.2.218.2	80	37	E	Y	80.37 9.4.2.218.2	Missing article: "in Maximum A-MPDU Length Exponent subfield".	Change to "in the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6402 John Coffey	225	1 9.4.2.218.2	80	37	E	Y	80.37 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6403 John Coffey	225	1 9.4.2.218.2	80	41	E	Y	80.41 9.4.2.218.2	Missing article: "include VHT Capabilities element".	Change to "include the VHT Capabilities element" (or "include a VHT Capabilities element").	2017/1/9 9:42
6404 John Coffey	225	1 9.4.2.218.2	80	43	E	Y	80.43 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6405 John Coffey	225	1 9.4.2.218.2	80	44	E	Y	80.44 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6406 John Coffey	225	1 9.4.2.218.2	80	44	T	Y	80.44 9.4.2.218.2	Why "Receive" rather than "receive"? Is this a defined term?	Change "Receive" to "receive".	2017/1/9 9:42
6407 John Coffey	225	1 9.4.2.218.2	80	45	E	Y	80.45 9.4.2.218.2	Missing article: "When Maximum A-MPDU Length Exponent subfield".	Change to "When the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6408 John Coffey	225	1 9.4.2.218.2	80	45	E	Y	80.45 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6409 John Coffey	225	1 9.4.2.218.2	80	47	T	Y	80.47 9.4.2.218.2	Why "Receive" rather than "receive"? Is this a defined term?	Change "Receive" to "receive".	2017/1/9 9:42
6410 John Coffey	225	1 9.4.2.218.2	80	48	E	Y	80.48 9.4.2.218.2	Missing article: "When Maximum A-MPDU Length Exponent subfield".	Change to "When the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6411 John Coffey	225	1 9.4.2.218.2	80	48	E	Y	80.48 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6412 John Coffey	225	1 9.4.2.218.2	80	50	E	Y	80.50 9.4.2.218.2	Missing article: "in Maximum A-MPDU Length Exponent subfield".	Change to "in the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6413 John Coffey	225	1 9.4.2.218.2	80	50	E	Y	80.50 9.4.2.218.2	Missing article: "in HT Capabilities element".	Change to "in the HT Capabilities element".	2017/1/9 9:42
6414 John Coffey	225	1 9.4.2.218.2	80	53	E	Y	80.53 9.4.2.218.2	Missing article: "in Maximum A-MPDU Length Exponent subfield".	Change to "in the Maximum A-MPDU Length Exponent subfield".	2017/1/9 9:42
6415 John Coffey	225	1 9.4.2.218.2	80	53	E	Y	80.53 9.4.2.218.2	Missing article: "in HE Capabilities element".	Change to "in the HE Capabilities element".	2017/1/9 9:42
6416 John Coffey	225	1 9.4.2.218.3	82	14	E	Y	82.14 9.4.2.218.3	Incorrect case or missing word: "STA support 40 MHz".	Change to "that the STA supports 40 MHz" or "STA support for 40 MHz".	2017/1/9 9:42
6417 John Coffey	225	1 9.4.2.218.3	82	17	E	Y	82.17 9.4.2.218.3	Incorrect case or missing word: "STA support 40 MHz and 80 MHz".	Change to "STA support for 40 MHz and 80 MHz".	2017/1/9 9:42
6418 John Coffey	225	1 9.4.2.218.3	82	27	T	Y	82.27 9.4.2.218.3	Why "Reserved" rather than "reserved"? Is this a defined term?	Change "Reserved" to "reserved".	2017/1/9 9:42
6419 John Coffey	225	1 9.4.2.218.3	82	32	T	Y	82.32 9.4.2.218.3	Why "Reserved" rather than "reserved"? Is this a defined term?	Change "Reserved" to "reserved".	2017/1/9 9:42
6420 John Coffey	225	1 9.4.2.218.3	82	44	E	Y	82.44 9.4.2.218.3	Inconsistent (and odd) usage: "advertised of 2.4 GHz". Why "of"? Earlier in the same column we have "advertised "on" 5 GHz, also somewhat odd.	Choose a consistent form.	2017/1/9 9:42
6421 John Coffey	225	1 9.4.2.218.3	83	16	T	Y	83.16 9.4.2.218.3	Incorrect units: in the second column, the units "us" are used.	Change to "ms".	2017/1/9 9:42

6422 John Coffey	225	1 9.4.2.218.3	83	19	T	Y	83.19 9.4.2.218.3	Incorrect units: in the second column, the units "us" are used.	Change to "ms".	2017/1/9 9:42
6423 John Coffey	225	1 9.4.2.218.3	83	25	T	Y	83.25 9.4.2.218.3	Incorrect units: in the second column, the units "us" are used.	Change to "ms".	2017/1/9 9:42
6424 John Coffey	225	1 9.4.2.218.3	83	28	T	Y	83.28 9.4.2.218.3	Incorrect units: in the second column, the units "us" are used.	Change to "ms".	2017/1/9 9:42
6425 John Coffey	225	1 9.4.2.218.3	84	54	E	Y	84.54 9.4.2.218.3	Superfluous comma: "Otherwise, reserved".	Delete comma.	2017/1/9 9:42
6426 John Coffey	225	1 9.4.2.218.3	85	11	E	Y	85.11 9.4.2.218.3	Superfluous comma: "Otherwise, reserved".	Delete comma.	2017/1/9 9:42
6427 John Coffey	225	1 9.4.2.218.3	85	23	E	Y	85.23 9.4.2.218.3	Superfluous comma: "Otherwise, reserved".	Delete comma.	2017/1/9 9:42
6428 John Coffey	225	1 9.4.2.218.3	85	29	E	Y	85.29 9.4.2.218.3	Superfluous comma: "Otherwise, reserved".	Delete comma.	2017/1/9 9:42
6429 John Coffey	225	1 9.4.2.218.3	86	31	T	Y	86.31 9.4.2.218.3	Vague and unhelpful terminology: "Class A STAs are high capability devices and Class B STAs are low capability devices." Since the terms "high capability" and "low capability" are not defined here, this statement does not provide useful information. At best it conveys a rough intuitive idea of what was intended. This might be appropriate in marketing slides or a tutorial presentation but it should have no place in a specification.	Change to "Class A STAs support the mandatory features described in x.y.z.w" or appropriate equivalent text.	2017/1/9 9:42
6430 John Coffey	225	1 9.4.2.218.3	86	53	E	Y	86.53 9.4.2.218.3	Superfluous comma.	Delete comma.	2017/1/9 9:42
6431 John Coffey	225	1 9.4.2.218.3	87	41	E	Y	87.41 9.4.2.218.3	Incomplete case switch: "a set of [...] field(s)" expands to "a set of [...] field" or "a set of [...] fields".	Change "a set of" to "a (set of)".	2017/1/9 9:42
6432 John Coffey	225	1 9.4.2.218.3	87	49	E	Y	87.49 9.4.2.218.3	Incomplete case switch: "a set of [...] field(s)" expands to "a set of [...] field" or "a set of [...] fields".	Change "a set of" to "a (set of)".	2017/1/9 9:42
6433 John Coffey	225	1 9.4.2.218.3	87	57	T	Y	87.57 9.4.2.218.3	The text provides a case in which certain subfields "do not need to be present". This seems to imply that the subfields could be present even though they do not need to be. Why allow an extra case? Is the assumption that subfields that do not need to be present will therefore not be present in different implementations?	Change "do not need to be present" to "are not present" (or shall not be present, or equivalent text).	2017/1/9 9:42
6434 John Coffey	225	1 9.4.2.218.5	89	21	E	Y	89.21 9.4.2.218.5	Long run-on sentence: the sentence starting "PPE threshold values appear" is too long. The meaning would be clearer if it were split into two.	Split the sentence.	2017/1/9 9:42
6435 John Coffey	225	1 9.4.2.218.5	89	27	E	Y	89.27 9.4.2.218.5	In the text "for all values of n and b where ...", it seems that "for which" is meant instead of "where".	Change "where" to "for which".	2017/1/9 9:42
6436 John Coffey	225	1 9.4.2.218.5	90	5	E	Y	90.05 9.4.2.218.5	Inconsistent usage: the quantities "n" and "b" should be italicized.	Italicize the quantities "n" and "b".	2017/1/9 9:42
6437 John Coffey	225	1 9.4.2.219	91	40	T	Y	91.40 9.4.2.219	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6438 John Coffey	225	1 9.4.2.219	91	41	E	Y	91.41 9.4.2.219	Inconsistent usage / "wicked which": here we have "which transmitted", whereas in every other place in the draft we have "that transmitted".	Change "which" to "that".	2017/1/9 9:42
6439 John Coffey	225	1 9.4.2.219	91	41	T	Y	91.41 9.4.2.219	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6440 John Coffey	225	1 9.4.2.219	91	55	E	Y	91.55 9.4.2.219	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".	2017/1/9 9:42
6441 John Coffey	225	1 9.4.2.219	92	3	T	Y	92.03 9.4.2.219	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6442 John Coffey	225	1 9.4.2.219	92	3	T	Y	92.03 9.4.2.219	(Second instance on same line:) Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6443 John Coffey	225	1 9.4.2.219	92	4	T	Y	92.04 9.4.2.219	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6444 John Coffey	225	1 9.4.2.219	92	5	E	Y	92.05 9.4.2.219	Missing article: "from Multiple BSSID element".	Change to "from the Multiple BSSID element".	2017/1/9 9:42
6445 John Coffey	225	1 9.4.2.219	92	10	E	Y	92.10 9.4.2.219	Missing article: "corresponds to transmitted BSSID".	Change to "corresponds to a transmitted BSSID".	2017/1/9 9:42
6446 John Coffey	225	1 9.4.2.219	92	14	E	Y	92.14 9.4.2.219	Missing article: "to non-zero value".	Change to "to a non-zero value".	2017/1/9 9:42

6447 John Coffey	225	1 9.4.2.219	92	23	T	Y	92.23 9.4.2.219	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6448 John Coffey	225	1 9.4.2.219	92	28	E	Y	92.28 9.4.2.219	Incorrect form of article / inconsistent usage: here we have "a HE non-AP STA", whereas in most other places in the draft we have "an HE non-AP STA".	Change "a" to "an".	2017/1/9 9:42
6449 John Coffey	225	1 9.4.2.219	92	28	E	Y	92.28 9.4.2.219	Missing word or article: "from associated AP".	Change to "its associated AP".	2017/1/9 9:42
6450 John Coffey	225	1 9.4.2.219	92	29	E	Y	92.29 9.4.2.219	Missing article: "should not exclusively use BSS Color paramter".	Change to "should not exclusively use the BSS Color parameter".	2017/1/9 9:42
6451 John Coffey	225	1 9.4.2.219	92	29	E	Y	92.29 9.4.2.219	Missing article or wrong case: "in making decision".	Change to "in making a decision" or "in making decisions".	2017/1/9 9:42
6452 John Coffey	225	1 9.4.2.219	92	29	T	Y	92.29 9.4.2.219	Normative statement that is contradicted later in the same paragraph: "should not exlusively use". At the end of the paragraph we find that this only applies if there has been no intervening contrary signaling from the AP. The conflict is minor but unnecessary, and it would be better to avoid it.	Reword to eliminate the contradiction: for example, if the most recently received HE Element from that AP contains a 1, then ... etc.	2017/1/9 9:42
6453 John Coffey	225	1 9.4.2.220	93	53	E	Y	93.53 9.4.2.220	Missing qualifier / inconsistent usage: here we have "STA" whereas elsewhere we have "HE STA".	Change "a STA" to "an HE STA".	2017/1/9 9:42
6454 John Coffey	225	1 9.4.2.220	93	62	E	Y	93.62 9.4.2.220	Missing word / awkward suage: "retransmission attempts of UL OFDMA random access".	Change to "retransmission attempts of UL OFDMA transmissions".	2017/1/9 9:42
6455 John Coffey	225	1 9.4.2.219	92	30	E	Y	92.30 9.4.2.219	Incorrect conjunction: the sentence structure is not entirely clear but it seems reasonable to assume that the last "and" could be followed by another instance of "should not exclusively use ...". But in that case the conjunction is wrong.	Change "and" to "or".	2017/1/9 9:42
6456 John Coffey	225	1 9.4.2.219	92	30	E	Y	92.30 9.4.2.219	Inconsistent usage: "the non-AP STA". Since "HE non-AP STA" has been mentioned earlier in the paragraph, it is arguably permissible to use "non-AP STA" or even simply "STA" here, but for consistency and clarity purposes it seems better to use terms consistently.	Change "the non-AP STA" to "the HE non-AP STA".	2017/1/9 9:42
6457 John Coffey	225	1 9.4.2.219	92	31	E	Y	92.31 9.4.2.219	Missing article / inconsistent usage: "HE non-AP STA" at beginning of sentence.	Change to "An HE non-AP STA".	2017/1/9 9:42
6458 John Coffey	225	1 9.4.2.219	92	32	T	Y	92.32 9.4.2.219	Vague and imprecise language: "(re)enable BSS Color related features". What precisely does "related" mean here? For example, the ability of an AP to recommend disabling BSS Color use by associated STAs is clearly "related" to BSS Color; is this included or not? It is, to be sure, not too hard to guess that the intention was that it is not included, but the specification should not put the reader in the position to have to guess.	Change "BSS Color related features" to a list or reference to a list of exactly which features are meant.	2017/1/9 9:42
6459 John Coffey	225	1 9.4.2.221	94	4	E	Y	94.04 9.4.2.221	Inconsistent terminology: here we have "non-AP STAs" whereas in most places in the draft we have "HE non-AP STAs".	Change "non-AP STAs" to "HE non-AP STAs".	2017/1/9 9:42
6460 John Coffey	225	1 9.4.2.221	94	32	E	Y	94.32 9.4.2.221	Inconsistent erminology: here we have "non-AP STA", whereas in most places in the draft we have "HE non-AP STAs".	Change "non-AP STAs" to "HE non-AP STAs".	2017/1/9 9:42
6461 John Coffey	225	1 9.4.2.221	94	37	E	Y	94.37 9.4.2.221	Missing article: "The format of [A, B, C, and D] fields".	Change to "The format of the [A, B, C, and D] fields".	2017/1/9 9:42
6462 John Coffey	225	1 9.4.2.221	94	39	T	Y	94.39 9.4.2.221	Here format is "illustrated" in the Figure, whereas in most other places in the draft, format is "defined" in a figure. Is the present statement normative or is it an explanatory restatement of an explicit definition somewhere else?	If this is intended to be the definition, change "illusrated" to "defined".	2017/1/9 9:42

6463 John Coffey	225	1 9.4.2.221	94	52	T	Y	94.52 9.4.2.221	Here format is "illustrated" in the Figure, whereas in most other places in the draft, format is "defined" in a figure. Is the present statement normative or is it an explanatory restatement of an explicit definition somewhere else?	If this is intended to be the definition, change "illusrated" to "defined".	2017/1/9 9:42
6464 John Coffey	225	1 9.4.2.221	94	59	T	Y	94.59 9.4.2.221	Here format is "illustrated" in the Figure, whereas in most other places in the draft, format is "defined" in a figure. Is the present statement normative or is it an explanatory restatement of an explicit definition somewhere else?	If this is intended to be the definition, change "illusrated" to "defined".	2017/1/9 9:42
6465 John Coffey	225	1 9.4.2.223	95	51	E	Y	95.51 9.4.2.223	Solecism: "an STA-to-STA operation".	Delete "an".	2017/1/9 9:42
6466 John Coffey	225	1 9.4.2.223	95	55	T	Y	95.55 9.4.2.223	Variant terms used for the same feature: "STA-2-STA operation". A matter of a few sentences earlier we have "STA-to-STA". Which is it?	Change "STA-2-STA" to "STA-to-STA".	2017/1/9 9:42
6467 John Coffey	225	1 9.4.2.223	96	19	E	Y	96.19 9.4.2.223	Missing article: "is set to duration".	Change to "is set to a duration".	2017/1/9 9:42
6468 John Coffey	225	1 9.4.2.223	96	23	E	Y	96.23 9.4.2.223	Solecism: incorrect use of definite article: "the HE STA supporting it". Is there just one HE STA supporting it?	Change "the" to "an" or "any".	2017/1/9 9:42
6469 John Coffey	225	1 9.4.2.223	96	23	T	Y	96.23 9.4.2.223	Vague and uninformative language: "indicates a specified operation". Which oiperation? Where is it specified?	Provide additional, clarifying information. If this operation is specified elsewhere in the draft, say so and provide a reference. If the specification is by the vendor, and thus outside the scope of this draft, delete the word "specified".	2017/1/9 9:42
6470 John Coffey	225	1 9.4.2.223	96	23	T	Y	96.23 9.4.2.223	Ambiguous langauge: "The Vendor Specific Service ID field indicates a specified operation, and the HE STA that supports it". Does "it" refer to the Vendor Specific Service ID field or the specified operation?	Clarify.	2017/1/9 9:42
6471 John Coffey	225	1 9.4.2.224	96	32	T	Y	96.32 9.4.2.224	The format of the element is "shown" in the Figure. In many other places in the draft, format is defined in figures. In the present instance, is this showing really a definition? If so, say so.	Change "shown" to "defined".	2017/1/9 9:42
6472 John Coffey	225	1 9.4.2.224	96	62	E	Y	96.62 9.4.2.224	Missing article: "is set to duration".	Change to "is set to the duration".	2017/1/9 9:42
6473 John Coffey	225	1 9.4.2.225	97	43	T	Y	97.43 9.4.2.225	Vague and uninformative language: "indicates a specified operation". Which oiperation? Where is it specified?	Provide additional, clarifying information. If this operation is specified elsewhere in the draft, say so and provide a reference. If the specification is by the vendor, and thus outside the scope of this draft, delete the word "specified".	2017/1/9 9:42
6474 John Coffey	225	1 9.4.2.225	97	43	E	Y	97.43 9.4.2.225	Solecism: incorrect use of definite article: "the HE STA supporting it". Is there just one HE STA supporting it?	Change "the" to "an" or "any".	2017/1/9 9:42
6475 John Coffey	225	1 9.6.8.36	99	61	E	Y	99.61 9.6.8.36	Independent clauses linked by a comma without a coordinating conjunction.	Change comma to semicolon.	2017/1/9 9:42
6476 John Coffey	225	1 9.6.29.3	105	4	E	Y	105.04 9.6.29.3	Missing article: "sent by HE STA".	Change to "sent by an HE STA".	2017/1/9 9:42
6477 John Coffey	225	1 9.6.29.3	105	5	E	Y	105.05 9.6.29.3	Missing article: "indicated by Quiet Time Period Request element".	Change to "indicated by the Quiet Time Period Request element".	2017/1/9 9:42
6478 John Coffey	225	1 9.7.1	106	4	T	Y	106.04 9.7.1	In the first and third elements of the list, it is stated that "The content of these octets is unspecified. However in the second element we have no such phrase. Since there can be more than zero EOF Padding Subframes, either the content needs to be specified or a note added to say that the content is left unspecified.	Either the content needs to be specified or a note added to say that the content is left unspecified.	2017/1/9 9:42
6479 John Coffey	225	1 9.7.1	106	36	E	Y	106.36 9.7.1	Inconsistent usage: we have both "a S-MPDU" and "an S-MPDU" in the draft. Though the former is used more often, the latter seems correct.	Change "a S-MPDU" to "an S-MPDU".	2017/1/9 9:42
6480 John Coffey	225	1 9.7.1	107	3	T	Y	107.03 9.7.1	In equation (9-5), L_MPDU is defined for VHT, HT, and DMG PPDUs, but not foe HE PPDUs. What is the definition for HE PPDUs?	Modify equation (9-5) to add a definition of L_MPDU for HE PPDUs.	2017/1/9 9:42

6481 John Coffey	225	1 9.7.1	107	15	T	Y	107.15 9.7.1	The last sentence of the Note discusses HT and VHT PPDUs, but not HE PPDUs. What pattern is followed by HE PPDUs?	Modify the Note to describe the pattern for HE PPDUs.	2017/1/9 9:42
6482 John Coffey	225	1 9.7.3	107	35	E	Y	107.35 9.7.3	Incorrect conjunction: "An A-MPDU carried in an HE SU PPDU, HE extended range SU PPDU, HE trigger-based PPDU and HE MU PPDU". It will be a rare A-MPDU that is carried in all four of these.	Change "and" to "or".	2017/1/9 9:42
6483 John Coffey	225	1 9.7.3	107	53	E	Y	107.53 9.7.3	Superfluous verbiage: what difference does the word 'all' make here, and how would the meaning change if it was deleted?	Delete "all".	2017/1/9 9:42
6484 John Coffey	225	1 9.7.3	107	53	T	Y	107.53 9.7.3	Instead of "(all) HE trigger-based PPDUs addressed to the same AP", it would be more precise to write "HE trigger-based PPDUs transmitted simultaneously to the same AP", or in response to the same HE trigger frame, or something. HE trigger-based PPDUs transmitted at different times do not have to carry the same value, even if they are addressed to the same AP.	Change "all HE trigger-based PPDUs addressed to the same AP" to "HE trigger-based PPDUs transmitted simultaneously to the same AP".	2017/1/9 9:42
6485 John Coffey	225	1 9.7.3	107	65	E	Y	107.65 9.7.3	Incorrect and superfluous definite article: "The further restrictions".	Change to "Further restrictions".	2017/1/9 9:42
6486 John Coffey	225	1 9.7.3	108	19	T	Y	108.19 9.7.3	"The 4095-octet limit does not apply to A-MPDUs carried in VHT or DMG PPDUs". Well and good, but what about HE PPDUs?	Add appropriate statement about HE PPDUs.	2017/1/9 9:42
6487 John Coffey	225	1 9.7.3	108	40	T	Y	108.40 9.7.3	Garbled text, unclear meaning: "by a TXOP holder, TXOP responder that does not include or solicit an immediate response". Apart from being ungrammatical, does the clause starting "that" apply to both TXOP holder and TXOP responder or just to the latter? Here we are left to try to guess from the change tracking marks.	Change "TXOP holder, TXOP responder" to "TXOP holder or TXOP responder" (if that is what is meant).	2017/1/9 9:42
6488 John Coffey	225	1 9.7.3	108	50	E	Y	108.50 9.7.3	Missing article: "transmitted by AP".	Change to "transmitted by an AP".	2017/1/9 9:42
6489 John Coffey	225	1 9.7.3	108	50	E	Y	108.50 9.7.3	Ungrammatical construction: "transmitted by (an) AP in an HE BSS that also needs to transmit one of the following". It is the AP, not the HE BSS, that might need to transmit one of the following.	Reword appropriately.	2017/1/9 9:42
6490 John Coffey	225	1 9.7.3	109	24	E	Y	109.24 9.7.3	Inconsistent usage: here we have "In [...]: If" (capital), whereas elsewhere in the draft, including several instances in the same table entry, we have "In [...]: if" (lower case).	Change "If" to "if".	2017/1/9 9:42
6491 John Coffey	225	1 9.7.3	110	12	E	Y	110.12 9.7.3	Missing article: "except HE BSS".	Change to "except an HE BSS".	2017/1/9 9:42
6492 John Coffey	225	1 9.7.3	110	14	E	Y	110.14 9.7.3	Inconsistent usage / "wicked which": here we have "which corresponds", whereas in most other places in the draft we have "that corresponds".	Change "which" to "that".	2017/1/9 9:42
6493 John Coffey	225	1 10.3.2.4	115	8	E	Y	115.08 10.3.2.4	Missing article: "carried information". Some information?	Change to "carried the information".	2017/1/9 9:42
6494 John Coffey	225	1 10.3.2.4	115	8	E	Y	115.08 10.3.2.4	Missing article: "is not HE trigger-based PPDU triggered by the STA".	Change to "is not an HE trigger-based PPDU triggered by the STA".	2017/1/9 9:42
6495 John Coffey	225	1 10.3.2.4	115	18	E	Y	115.18 10.3.2.4	Odd and ungrammatical construction: "before the end of the PPDU, in this case, this NAV update operation".	Change to "before the end of the PPDU, in which case the MAV update operation".	2017/1/9 9:42
6496 John Coffey	225	1 10.3.2.4	115	40	E	Y	115.40 10.3.2.4	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".	2017/1/9 9:42
6497 John Coffey	225	1 10.3.2.4a	115	49	E	Y	115.49 10.3.2.4a	Unclear wording: "managing RTS use by an AP". Apparently what is meant is management by an AP of RTS usage throughout the BSS, not management of the use of RTS by the AP specifically.	Reword to clarify.	2017/1/9 9:42

6498	John Coffey	225	1 10.3.2.4a	115	49	E	Y	115.49	10.3.2.4a	Situation situation: the word is used twice in the same sentence. It's both vague and colloquial and it would be better if it wasn't used at all. It doesn't appear anywhere else in the draft.	Reword to eliminate use of "situation".	2017/1/9 9:42
6499	John Coffey	225	1 10.3.2.4a	115	50	E	Y	115.50	10.3.2.4a	Missing article: "may have better view".	Change to "may have a better view", or (better) reword to eliminate the phrase entirely.	2017/1/9 9:42
6500	John Coffey	225	1 10.3.2.8a.1	116	4	E	Y	116.04	10.3.2.8a.1	Repeated full stops.	Remove one full stop.	2017/1/9 9:42
6501	John Coffey	225	1 10.3.2.8a.3	118	34	E	Y	118.34	10.3.2.8a.3	Awkward usage: "follow the synchronization requirement as defined". The word "as" contributes nothing.	Delete "as".	2017/1/9 9:42
6502	John Coffey	225	1 10.3.2.10.1	118	55	E	Y	118.55	10.3.2.10.1	Missing space: "transmissionthat".	Add space.	2017/1/9 9:42
6503	John Coffey	225	1 10.3.2.10.1	119	8	T	Y	119.08	10.3.2.10.1	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42
6504	John Coffey	225	1 10.3.2.10.1	119	12	E	Y	119.12	10.3.2.10.1	Why "could"? The use of the conditional tense is puzzling, as indeed it was in the previous sentence. There are no other occurrences of "could" in the draft. In present tense, "can" would seem inappropriate in context: "might" would be preferable".	Change tense and use "might" instead of "can".	2017/1/9 9:42
6505	John Coffey	225	1 10.3.2.10.3	120	7	E	Y	120.07	10.3.2.10.3	Missing space: "medium.Specifically".	Add space.	2017/1/9 9:42
6506	John Coffey	225	1 10.3.2.10.3	120	8	E	Y	120.08	10.3.2.10.3	Missing article: "sent in HE trigger-based PPDU".	Change to "sent in an HE trigger-based PPDU".	2017/1/9 9:42
6507	John Coffey	225	1 10.3.2.10.3	120	8	E	Y	120.08	10.3.2.10.3	Missing article: "acknowledgement in HE MU PPDU".	Change to "acknowledgement in an HE MU PPDU".	2017/1/9 9:42
6508	John Coffey	225	1 10.3.2.10.3	120	8	E	Y	120.08	10.3.2.10.3	Missing article: "in response to (A)-MPDU".	Change to "in response to a(n) (A)-MPDU".	2017/1/9 9:42
6509	John Coffey	225	1 10.3.2.10.3	120	58	E	Y	120.58	10.3.2.10.3	Inconsistent (and awkward) usage: here we have "a HE trigger-based PPDU", whereas in virtually every other place in th draft, we have "an HE trigger-based PPDU".	Change "a" to "an".	2017/1/9 9:42
6510	John Coffey	225	1 10.3.2.10.3	121	55	T	Y	121.55	10.3.2.10.3	Garbled text: "A STA may use a BlockAckReq frame to solicit the acknowledgment frames" from, presumably, some other STA. But which one? The text goes on to say ", to whom the STA sent the QoS Data frame(s)", which makes it sound as if the STA is soliciting acknowledgment frames from the acknowledgment frames.	Reword to identify the STA(s) from which the acknowledgment frames are solicited.	2017/1/9 9:42
6511	John Coffey	225	1 10.3.2.10.3	121	55	E	Y	121.55	10.3.2.10.3	Anthoropomorphism: "to whom". The destination was an object, not a person.	Reword to eliminate the anthropomorphism.	2017/1/9 9:42
6512	John Coffey	225	1 10.3.2.10.3	121	56	E	Y	121.56	10.3.2.10.3	Anthoropomorphism: "from whom". The origin was an object, not a person.	Reword to eliminate the anthropomorphism.	2017/1/9 9:42
6513	John Coffey	225	1 10.3.2.10.3	121	58	E	Y	121.58	10.3.2.10.3	Inconsistent article form: here we have "a HE trigger-based PPDU", whereas almost everywhere else in the draft we have "an HE trigger-based PPDU".	Change to "an HE trigger-based PPDU".	2017/1/9 9:42
6514	John Coffey	225	1 10.3.5	121	5	T	Y	121.05	10.3.5	A STA may use RTS/CTS when it is "necessary" to distribute the NAV or when it is "necessary" to establish protection. Here "necessary" seems too strong a word: whether establishing protection is "necessary" depends on whether other STAs would transmit if protection was not established, which is never known to a STA. Perhaps this isn't what is intended by "necessary", but if not, why is the word there? We would have more-or-less the same meaning without it.	Delete "when it is necessary" (two places).	2017/1/9 9:42
6515	John Coffey	225	1 10.3.5	122	1	T	Y	122.01	10.3.5	"When HE duration-based RTS is enabled, a non-AP STA shall ...". Shouldn't that be an HE non-AP STA?	Change "a non-AP STA" to "an HE non-AP STA".	2017/1/9 9:42

6516	John Coffey	225	1 10.3.5	122	40	T	Y	122.40 10.3.5	"... static fragmentation is used". It seems that what is intended is that dynamic fragmentation is not used, not that static fragmentation is necessarily used.	Change "static fragmentation is used" to "only static fragmentation may be used".	2017/1/9 9:42
6517	John Coffey	225	1 10.7.9	125	35	E	Y	125.35 10.7.9	Inconsistent usage: here we have "and", whereas elsewhere in the table in similar contexts we have "or".	Change "and" to "or".	2017/1/9 9:42
6518	John Coffey	225	1 10.9	127	11	T	Y	127.11 10.9	Unresolved "<reference>".	Resolve it.	2017/1/9 9:42
6519	John Coffey	225	1 10.13.2	128	42	E	Y	128.42 10.13.2	Inconsistent usage: in this paragraph we have "for an HT PPDU", "for a VHT PPDU", and "for a DMG STA" in the appropriate places, but there is no corresponding text for an HE PPDU.	Immediately before the closing full stop, add " (for an HE PPDU)".	2017/1/9 9:42
6520	John Coffey	225	1 10.22.2.2	129	28	E	Y	129.28 10.22.2.2	Case agreement issue: "one or more immediate response". It seems that usage varies but that the majority convention is to use the plural in such cases. (As is done further down on the same page, at line 34, for example.)	Change to "one or more immediate responses".	2017/1/9 9:42
6521	John Coffey	225	1 10.22.2.2	129	47	E	Y	129.47 10.22.2.2	Spurios square bracket: "TXOP holder]".	Delete square bracket.	2017/1/9 9:42
6522	John Coffey	225	1 10.22.2.2	130	2	E	Y	130.02 10.22.2.2	Missing article: "in HE".	Change to "in an HE".	2017/1/9 9:42
6523	John Coffey	225	1 10.22.2.2	130	2	E	Y	130.02 10.22.2.2	Inconsistent form: here we have "HE trigger based PPDU", whereas almost everywhere else in the draft we have "HE trigger-based PPDU". It would be better to keep the term consistent.	Change to "HE trigger-based PPDU".	2017/1/9 9:42
6524	John Coffey	225	1 10.22.2.2	130	7	E	Y	130.07 10.22.2.2	Missing article: "in HE".	Change to "in an HE".	2017/1/9 9:42
6525	John Coffey	225	1 10.22.2.2	130	7	E	Y	130.07 10.22.2.2	Inconsistent form: here we have "HE trigger based PPDU", whereas almost everywhere else in the draft we have "HE trigger-based PPDU". It would be better to keep the term consistent.	Change to "HE trigger-based PPDU".	2017/1/9 9:42
6526	John Coffey	225	1 10.22.2.2	130	12	E	Y	130.12 10.22.2.2	Inconsistent form: here we have "HE trigger based PPDU", whereas almost everywhere else in the draft we have "HE trigger-based PPDU". It would be better to keep the term consistent.	Change to "HE trigger-based PPDU".	2017/1/9 9:42
6527	John Coffey	225	1 10.22.2.4	130	38	E	Y	130.38 10.22.2.4	Missing article: "Address 2 field".	Change to "the Address 2 field".	2017/1/9 9:42
6528	John Coffey	225	1 10.22.2.5	131	17	E	Y	131.17 10.22.2.5	Inapposite use of indefinite articles: "For an HT STA, a VHT STA, and an HE STA, an EDCA TXOP is obtained". This makes it sound as if the statement applies to one example of each.	Change to "For HT STAs, VHT STAs, and HE STAs, an EDCA TXOP is obtained".	2017/1/9 9:42
6529	John Coffey	225	1 10.22.2.5	131	20	T	Y	131.20 10.22.2.5	Missing case: the editing to accommodate the HE case has had the effect of rendering the timing undefined for the HT case operating at 2.4 GHz. Without the addition of the underlined text, it's clear that the relevant interval is PIFS, but with the addition we have "PIFS interval for the 5 GHz band or DIFS interval for an HE STA operating in the 2.4 GHz band." What about an HT STA operating in the 2.4 GHz band?	Revise the definition to fill in the missing case.	2017/1/9 9:42
6530	John Coffey	225	1 10.22.2.6	131	31	E	Y	131.31 10.22.2.6	Wrong article: "transmitted in the VHT MU PPDU".	Change to "transmitted in a VHT MU PPDU".	2017/1/9 9:42
6531	John Coffey	225	1 10.22.2.6	131	41	E	Y	131.41 10.22.2.6	Wrong article: "in the HE MU PPDU". Is there just one?	Change to "in an HE MU PPDU".	2017/1/9 9:42
6532	John Coffey	225	1 10.22.2.7	131	24	E	Y	131.24 10.22.2.7	Missing article: "than RXVECTOR parameter".	Change to "than the RXVECTOR parameter".	2017/1/9 9:42
6533	John Coffey	225	1 10.22.2.7	132	25	E	Y	132.25 10.22.2.7	Wrong article: "if the RTS frame".	Change to "if an RTS frame".	2017/1/9 9:42
6534	John Coffey	225	1 10.22.2.7	132	39	E	Y	132.39 10.22.2.7	Singular used where plural required: "for all intended receiver".	Change to "for all intended receivers".	2017/1/9 9:42
6535	John Coffey	225	1 10.22.2.9	133	37	E	Y	133.37 10.22.2.9	Independent clauses linked by a comma without a coordinating conjunction.	Change comma to semicolon.	2017/1/9 9:42
6536	John Coffey	225	1 10.22.2.9	133	37	E	Y	133.37 10.22.2.9	Unusual phrasing: "if any of the following conditions", when the text goes on to list two conditions.	Change "any" to "either".	2017/1/9 9:42
6537	John Coffey	225	1 10.22.2.9	133	38	T	Y	133.38 10.22.2.9	What is meant by the phrase "otherwise it resets the NAV"? Is this descriptive or normative?	Change "it resets" to "it shall reset" (if this is what is intended).	2017/1/9 9:42
6538	John Coffey	225	1 10.24.10.3	134	41	E	Y	134.41 10.24.10.3	Missing article: "the STA shall transmit BlockAck frame".	Change to "a BlockAck frame".	2017/1/9 9:42

6539	John Coffey	225	1 10.24.10.3	134	47	E	Y	134.47 10.24.10.3	Missing space: "ackreltransmission".	Add space.	2017/1/9 9:42
6540	John Coffey	225	1 10.24.10.3	134	63	E	Y	134.63 10.24.10.3	Wrong case: "BlockAck frame" (from group members 3 and 4).	Change to "BlockAck frames".	2017/1/9 9:42
6541	John Coffey	225	1 10.28.3	136	38	T	Y	136.38 10.28.3	"Can" used where shall / should / may required.	Change "can" to "may" (if that is what is intended).	2017/1/9 9:42
6542	John Coffey	225	1 10.28.4	137	9	E	Y	137.09 10.28.4	Wrong article: "the non-HE RD responder".	Change to "a non-HE responder".	2017/1/9 9:42
6543	John Coffey	225	1 10.28.4	137	10	E	Y	137.10 10.28.4	Wrong article: "the HE RD responder".	Change to "an HE RD responder".	2017/1/9 9:42
6544	John Coffey	225	1 10.28.4	137	17	E	Y	137.17 10.28.4	Wrong article: "the non-HE RD responder".	Change to "a non-HE responder".	2017/1/9 9:42
6545	John Coffey	225	1 10.28.4	137	18	E	Y	137.18 10.28.4	Wrong article: "the HE RD responder".	Change to "an HE RD responder".	2017/1/9 9:42
6546	John Coffey	225	1 10.43.1	137	48	E	Y	137.48 10.43.1	Typo: "tha".	Change to "that".	2017/1/9 9:42
6547	John Coffey	225	1 10.43.1	137	49	T	Y	137.49 10.43.1	Inconsistent use of defined term: here we have "accept TWT", whereas elsewhere we have "Accept TWT".	Change "accept TWT" to "Accept TWT".	2017/1/9 9:42
6548	John Coffey	225	1 10.43.1	137	50	T	Y	137.50 10.43.1	Inconsistent use of defined term: here we have "alternate TWT", whereas elsewhere we have "Alternate TWT".	Change "alternate TWT" to "Alternate TWT".	2017/1/9 9:42
6549	John Coffey	225	1 10.43.1	137	51	T	Y	137.51 10.43.1	Inconsistent use of defined term: here we have "dictate TWT", whereas elsewhere we have "Dictate TWT".		2017/1/9 9:42
6550	John Coffey	225	1 10.43.1	139	48	E	Y	139.48 10.43.1	Typo: "is a not a".	Change to "is not a".	2017/1/9 9:42
6551	John Coffey	225	1 11.1.3.8	141	22	T	Y	141.22 11.1.3.8	Incorrect use of definite article: "An HE STA that communicates with the HE AP whose MaxBSSID Indicator field is set to n". Why "the" HE AP? Is there only one? In the relevant text in section 9, all that is said is that the AP sets the MaxBSSID field to a non-zero value.	Change "the HE AP" to "an HE AP".	2017/1/9 9:42
6552	John Coffey	225	1 11.1.3.8	141	23	E	Y	141.23 11.1.3.8	Incorrect form of imperative: "shall decodes".	Change to "shall decode".	2017/1/9 9:42
6553	John Coffey	225	1 11.1.3.10	141	32	E	Y	141.32 11.1.3.10	Superfluous definite article: "to ensure the BSS discoverability".	Delete "the".	2017/1/9 9:42
6554	John Coffey	225	1 11.1.3.10	141	32	T	Y	141.32 11.1.3.10	Inconsistent usage of defined terms: here we have "beacon frames", whereas everywhere else in the drfat, including several places in the same section, we have "Beacon frames".	Change "beacon frames" to "Beacon frames".	2017/1/9 9:42
6555	John Coffey	225	1 11.1.3.10	141	33	E	Y	141.33 11.1.3.10	Solecism: "for the whole BSS coverage".	Change to "to ensure coverage of the whole BSS" or delete the phrase entirely.	2017/1/9 9:42
6556	John Coffey	225	1 11.1.3.10	141	43	T	Y	141.43 11.1.3.10	There's something odd about this idea of dual beacons. Superficially, the idea is attractive: the extended range SU modes (purportedly) extend range, so it's natural to think of some way of conveying beacon information to the new, extended range. But there are many modes that extend range beyond 6 Mb/s: LDPC, DCM, STBC, TxBF, as well as HE_EXT_SU, with all permissible combinations (many optional). If the principle is that every mode has a corresponding beacon, then we have a nightmare of beacon proliferation. If instead the principle is that we have a common beacon understandable by all, why, we have that already with the good old 6 Mb/s normal beacon. The text in the current draft has the feel of a half-worked out add-on. It would be better to do this properly or not at all. Incidentally there is not one word about extended range in the PAR or CSD, so this is tangential to the entire project.	Delete this sentence and all references to dual beacons in the draft.	2017/1/9 9:42
6557	John Coffey	225	1 11.1.3.10	141	36	E	Y	141.36 11.1.3.10	Incorrect use of definite article: "The HE AP that transmits Beacon frames in two PHY formats". Is there just one?	Change to "An HE AP ...".	2017/1/9 9:42
6558	John Coffey	225	1 11.1.3.10	141	45	E	Y	141.45 11.1.3.10	Missing word: "The Beacon frame transmitted in HE extended range SU PPDU has".	Change to "The Beacon frame transmitted in HE extended range SU PPDU format has".	2017/1/9 9:42
6559	John Coffey	225	1 11.1.3.10	141	45	E	Y	141.45 11.1.3.10	Strange syntax: "plus the TBTT offset which value is a half of the value of the Beacon Interval field". Who writes this stuff?	Reword.	2017/1/9 9:42

6560 John Coffey	225	1 11.1.3.10	141	51	T	Y	141.51 11.1.3.10	Inconsistent use of defined term: here we have "HE EXT_SU", whereas everywhere else in the draft we have "HE_EXT_SU".	Change "HE EXT_SU" to "HE_EXT_SU".	2017/1/9 9:42
6561 John Coffey	225	1 11.1.3.10	141	51	E	Y	141.51 11.1.3.10	Missing article or wrong tense: "may contain different set of elements".	Change to "may contain a different set of elements" or "may contain different sets of elements".	2017/1/9 9:42
6562 John Coffey	225	1 11.2.2.6	142	18	E	Y	142.18 11.2.2.6	Missing hyphen: "deliveryenabled".	Add hyphen.	2017/1/9 9:42
6563 John Coffey	225	1 11.2.2.8	142	57	E	Y	142.57 11.2.2.8	The marathon sentence "A STA that stays awake to receive group addressed BUs shall elect to receive all group addressed non-STBC transmissions or all group addressed STBC transmissions and remain awake until the More Data subfield of the appropriate type (non-STBC or STBC) of group addressed BUs indicates there are no further buffered group addressed BUs of that type, or until a TIM is received indicating there are no more buffered group addressed BUs of that type, or until an FMS Descriptor element is received indicating that there are no further buffered group addressed BUs for which the STA has previously received an FMS Response element in a frame that has a value in Address 1 that matches its MAC address or that has an Address 1 value that is a group address corresponding to a group of which it is a member and that was transmitted by the AP with which it is associated	Break this sentence into several sentences, or at the very least several subclauses separated by item identifiers. Add a table and a diagram.	2017/1/9 9:42
6564 John Coffey	225	1 11.2.2.8	143	5	E	Y	143.05 11.2.2.8	Superfluous word: "shall operate exactly as if". What is the difference between operating "exactly" as if and operating merely "as if"? For example, elsewhere (28.3.11.8) we see that "the operation of the interleaver is the same as if": are we to conclude that the operation doesn't have to be "exactly" the same, since there the word is omitted?	Delete "exactly".	2017/1/9 9:42
6565 John Coffey	225	1 11.2.2.8	143	8	E	Y	143.08 11.2.2.8	Superfluous word: "shall operate exactly as if". What is the difference between operating "exactly" as if and operating merely "as if"? For example, elsewhere (28.3.11.8) we see that "the operation of the interleaver is the same as if": are we to conclude that the operation doesn't have to be "exactly" the same, since there the word is omitted?	Delete "exactly".	2017/1/9 9:42
6566 John Coffey	225	1 11.2.2.8	143	12	E	Y	143.12 11.2.2.8	Superfluous word: "shall operate exactly as if". What is the difference between operating "exactly" as if and operating merely "as if"? For example, elsewhere (28.3.11.8) we see that "the operation of the interleaver is the same as if": are we to conclude that the operation doesn't have to be "exactly" the same, since there the word is omitted?	Delete "exactly".	2017/1/9 9:42
6567 John Coffey	225	1 11.49.1	144	37	T	Y	144.37 11.49.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6568 John Coffey	225	1 17.3.9.10	145	55	E	Y	145.55 17.3.9.10	Typo: "when measured as the 10% point".	Change to "when measured at the 10% point".	2017/1/9 9:42

6569 John Coffey	225	1 17.3.9.10	145	57	T	Y	145.57 17.3.9.10	Incorrect statement of mandatory requirement: "The residual CFO error measurement shall be made on the". This is a mandatory statement about how a measurement is to be made on a device to verify whether that device is compliant or not; it's not a requirement on the device itself. The device itself doesn't have to make any measurements at all. Apparently what is intended is to clarify the meaning of the requirement on the device from the previous sentence. It would be better to say so explicitly.	Reword to clarify that this text acts as part of the definition of the residual CFO error, and not as a requirement that any measurement has to be performed.	2017/1/9 9:42
6570 John Coffey	225	1 17.3.9.10	145	61	E	Y	145.61 17.3.9.10	Wrong form of indefinite article: "an non-HT".	Change to "a non-HT".	2017/1/9 9:42
6571 John Coffey	225	1 17.3.9.10	145	65	E	Y	145.65 17.3.9.10	Inconsistent form: here we have "HE trigger based PPDU", whereas almost everywhere else in the draft we have "HE trigger-based PPDU". It would be better to keep the term consistent.	Change to "HE trigger-based PPDU".	2017/1/9 9:42
6572 John Coffey	225	1 17.3.9.10	145	65	E	Y	145.65 17.3.9.10	Wrong case: "requirement for HE trigger(-)based PPDU".	Change "PPDU" to "PPDUs".	2017/1/9 9:42
6573 John Coffey	225	1 27.1	149	7	E	Y	149.07 27.1	This is the only place in the draft where the term "banned" occurs, and it isn't present anywhere in the 2016 rollup of the base standard either. Let's not introduce new terms for basic concepts where they are not needed.	Change to "HE STAs shall not use HCCA or TSPEC".	2017/1/9 9:42
6574 John Coffey	225	1 27.2.1	149	18	T	Y	149.18 27.2.1	From the text "An HE STA determines whether a received frame is an inter-BSS or an intra-BSS frame by using ...", it is not clear whether a normative requirement is being described. That is, the text tells us how an HE STA makes this determination, but not whether it is required to make the determination in the first place.	Clarify whether this is a requirement or not. If so, say so explicitly. If not, reword to make it clear that there is no requirement.	2017/1/9 9:42
6575 John Coffey	225	1 27.2.1	149	18	T	Y	149.18 27.2.1	Various methods are given for "determining" whether a received frame is an inter-BSS or intra-BSS frame. With the (possible) exception of MAC address, they all have some probability of false classification. As such, it seems that what is being described is an estimate of the inter-BSS / intra-BSS classification, not a definitive determination. If that's the case, it is misleading to write that the HE STA "determines" anything.	Reword appropriately. For example, if it's intended that the HE STA must make some attempt at a classifcation, but that it doesn't necessarily have to use the MAC address, then change to something like "An HE STA shall attempt to classify received frames as inter-BSS or intra-BSS using one or more of the following criteria", etc.	2017/1/9 9:42
6576 John Coffey	225	1 27.2.1	149	18	T	Y	149.18 27.2.1	The text discusses a determination of whether a received frame is inter-BSS or intra-BSS, but at the end of the section it's mentioned (or acknowledged) that frames may satisfy one or more conditions for both. It's very murky what happens then. The draft goes on to provide one way of making a decision (check the MAC address) but doesn't say whether it's required or not. So we don't know (a) if the HE STA is required to do any of this; (b) if it starts the process, is it required to run all the methods or just some?; (c) if it's not required to run all the methods, can it give up its attempt to classify if it gets conflicting answers from the ones it tries?	Reword appropriately.	2017/1/9 9:42

6577 John Coffey	225	1 27.2.1	149	18	T	Y	149.18 27.2.1	The text discusses a determination of whether a received frame is inter-BSS or intra-BSS, but at the end of the section it's mentioned (or acknowledged) that frames may not satisfy any of the conditions. Given this possibility, it is misleading to state that the STA makes a determination about whether the frame is one or the other.	Reword appropriately to allow for the possibility that the HE STA may be unable to make a determination.	2017/1/9 9:42
6578 John Coffey	225	1 27.2.1	149	26	T	Y	149.26 27.2.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6579 John Coffey	225	1 27.2.1	149	39	T	Y	149.39 27.2.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6580 John Coffey	225	1 27.2.1	149	50	T	Y	149.50 27.2.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6581 John Coffey	225	1 27.2.1	150	9	T	Y	150.09 27.2.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6582 John Coffey	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	Why does an HE AP interpret each HE MU PPDU as inter-BSS?	Clarify.	2017/1/9 9:42
6583 John Coffey	225	1 27.2.1	150	17	T	Y	150.17 27.2.1	"the decision made by using the MAC address takes precedence". The entire section is written in a way that makes requirements frustratingly elusive. The present text is one example among many. Since the text says "the decision", are we to conclude that it is mandatory for the STA to process the MAC address for all received frames? If a STA decided--for power save purposes of for any other reason--to make the conservative decision that the received PPDU should count as both intra-BSS and inter-BSS, would that impact any other device in the network negatively? If not, why insist on HE STAs processing the MAC address? Or more basically, is this in fact what the draft requires?	Clarify this and the entire section. In doing so, please make appropriate and precise use of the key words "shall", "should", and "may", as appropriate.	2017/1/9 9:42
6584 John Coffey	225	1 27.2.1	150	20	T	Y	150.20 27.2.1	The section consists of a long (and none-too-clearly written) set of procedures on "determining" whether PPDUs are intra-BSS or inter-BSS. It seems that this is intended to be mandatory. If mandatory, it doesn't appear anywhere nearly useful enough to justify encumbering devices (dual NAV doesn't count). If optional, it doesn't justify cluttering up the draft.	Delete this section and all references to it in the draft.	2017/1/9 9:42
6585 John Coffey	225	1 27.2.1	150	36	E	Y	150.36 27.2.1	Missing text: "or cannot".	Change to "or that cannot".	2017/1/9 9:42
6586 John Coffey	225	1 27.2.1	150	37	E	Y	150.37 27.2.1	The text "the method of identifying a PPDU as intra-BSS or inter-BSS" conveys the idea that a PPDU can definitely be so identified. Since the text also acknowledges in several places that such a decision may not be possible, this is misleading.	Reword to clarify.	2017/1/9 9:42
6587 John Coffey	225	1 27.2.2	151	37	E	Y	151.37 27.2.2	Garbled text: "if a PS-Poll is received carried in a received HE SU PPDU ...".	Reword to clarify.	2017/1/9 9:42
6588 John Coffey	225	1 27.2.2	151	56	E	Y	151.56 27.2.2	Singular used where plural required: "by intra-BSS PPDU".	Change to "intra-BSS PPDUs".	2017/1/9 9:42
6589 John Coffey	225	1 27.2.2	151	57	E	Y	151.57 27.2.2	Singular used where plural required: "by inter-BSS PPDU".	Change to "inter-BSS PPDUs".	2017/1/9 9:42
6590 John Coffey	225	1 27.2.2	151	57	E	Y	151.57 27.2.2	Inconsistent usage: "two NAV". In the previous sentence it's "two NAVs".	Change to "two NAVs".	2017/1/9 9:42
6591 John Coffey	225	1 27.2.2	151	58	E	Y	151.58 27.2.2	Missing word(s) or garbled syntax: "where a STA requires protection from ... or avoid interference". This maps to "where a STA requires avoid interference".	Revise appropriately.	2017/1/9 9:42
6592 John Coffey	225	1 27.2.2	151	60	E	Y	151.60 27.2.2	Singular used where plural required: "in neighboring BSS".	Change to "in neighboring BSSs".	2017/1/9 9:42

6593	John Coffey	225	1 27.2.2	151	64	T	Y	151.64 27.2.2	The illustrative example is extraordinarily unconvincing. Is this really the best justification for forcing all HE STAs to go through the extended rigmarole of classifying every PPDU as intra-BSS or inter-BSS? Even taking the example at face value, what is gained by having the STA set its "intra-BSS NAV" when it receives its AP's initial frame, as opposed to setting the plain old NAV? Either way that STA wouldn't be permitted to transmit, so what has all the extra processing and classification bought? The straightforward way would be to have all STAs other than those addressed by the AP to set the (N.B. "the", since there would be only one) NAV. The NAV is one of the basic underpinnings of the entire current success of 802.11 and extraordinary justification should be necessary before any changes are made to it.	Delete this section, the definition of dual NAV, and all references to dual NAV in the draft.	2017/1/9 9:42
6594	John Coffey	225	1 27.2.3	152	11	E	Y	152.11 27.2.3	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".	2017/1/9 9:42
6595	John Coffey	225	1 27.2.3	152	22	E	Y	152.22 27.2.3	Independent clauses linked by a comma without a coordinating conjunction.	Change comma to semicolon.	2017/1/9 9:42
6596	John Coffey	225	1 27.2.3	152	25	E	Y	152.25 27.2.3	Case disagreement: "a QoS frames".	Change "frames" to "frame".	2017/1/9 9:42
6597	John Coffey	225	1 27.2.3	152	29	E	Y	152.29 27.2.3	Wrong article: "the HE non-AP UL MU capable STA". Is there just one?	Change to "an HE non-AP UL MU capable STA".	2017/1/9 9:42
6598	John Coffey	225	1 27.3.1	152	41	T	Y	152.41 27.3.1	Descriptive language used where it seems normative language must have been intended: an HE STA "supports" static fragmentation. How do you know what it supports? Apparently what is meant is that an HE STA shall support static fragmentation. If so, it would be better to say so.	Change "An HE STA supports" to "An HE STA shall support".	2017/1/9 9:42
6599	John Coffey	225	1 27.3.1	152	42	T	Y	152.42 27.3.1	Descriptive language used where it seems normative language must have been intended: an HE STA "can also support" dynamic fragmentation. The ability of a device to do so should not be in question; what is apparently intended is that an HE STA is permitted to do so. If so, it would be better to say so.	Change "can" to "may".	2017/1/9 9:42
6600	John Coffey	225	1 27.3.1	152	46	T	Y	152.46 27.3.1	Descriptive language used where it seems normative language must have been intended: "An HE STA can dynamically fragment". The ability of a device to do so should not be in question; what is apparently intended is that an HE STA is permitted to do so. If so, it would be better to say so.	Change "can" to "may".	2017/1/9 9:42
6601	John Coffey	225	1 27.3.3.1	153	33	E	Y	153.33 27.3.3.1	Singular used when plural might be required: "failed fragment".	Change "failed fragment" to "failed fragment(s)".	2017/1/9 9:42
6602	John Coffey	225	1 27.3.3.4	154	40	E	Y	154.40 27.3.3.4	Wrong article: "The receiver STA that accepts".	Change to "A receiver STA that accepts".	2017/1/9 9:42
6603	John Coffey	225	1 27.3.4.1	155	23	T	Y	155.23 27.3.4.1	Cross-reference to nonexistent section: "227.3.3.4".	Change to "27.3.3.4".	2017/1/9 9:42
6604	John Coffey	225	1 27.3.4.3	156	27	E	Y	156.27 27.3.4.3	Independent clauses run together without required punctuation: "is successfully transmitted (...) otherwise".	Change "otherwise" to "; otherwise".	2017/1/9 9:42
6605	John Coffey	225	1 27.3.4.3	156	32	E	Y	156.32 27.3.4.3	Garbled text: "unless it receives a ... frame ... when the". Wherefore "when"?	Change "when" to "in which".	2017/1/9 9:42
6606	John Coffey	225	1 27.3.4.4	156	51	E	Y	156.51 27.3.4.4	Missing space: "that was setup".	Change "setup" to "set up".	2017/1/9 9:42
6607	John Coffey	225	1 27.3.4.4	157	11	E	Y	157.11 27.3.4.4	Garbled text: "if it receives a ... frame ... when the". Wherefore "when"?	Change "when" to "in which".	2017/1/9 9:42

6608	John Coffey	225	1 27.4.1	157	21	T	Y	157.21 27.4.1	Descriptive language used where it seems normative language must have been intended: "An HE STA can use". The ability of a device to do so should not be in question; what is apparently intended is that an HE STA is permitted to do so. If so, it would be better to say so.	Change "can" to "may".	2017/1/9 9:42
6609	John Coffey	225	1 27.4.1	157	33	E	Y	157.33 27.4.1	Missing article "sending Multi-STA BlockAck frame".	Change to "sending a Multi-STA BlockAck frame".	2017/1/9 9:42
6610	John Coffey	225	1 27.4.1	157	33	E	Y	157.33 27.4.1	Grabled text: "using one of rate, MCS, NSS".	Correct or clarify.	2017/1/9 9:42
6611	John Coffey	225	1 27.4.1	157	49	T	Y	157.49 27.4.1	Use of undefined term / garbled text: "each received Multi-STA sent".	Change to "each Multi-STA BlockAck frame sent".	2017/1/9 9:42
6612	John Coffey	225	1 27.4.1	157	49	E	Y	157.49 27.4.1	Solecism: "an STA".	Change to "a STA".	2017/1/9 9:42
6613	John Coffey	225	1 27.4.1	157	61	E	Y	157.61 27.4.1	Inconsistent usage: here we have "a MU-BAR", whereas in most other cases we have "an MU-BAR". It would be better to choose one form and to stick to it.	Change "a" to "an".	2017/1/9 9:42
6614	John Coffey	225	1 27.4.1	158	1	E	Y	158.01 27.4.1	Inconsistent usage: here we have "a MU-BAR", whereas in most other cases we have "an MU-BAR". It would be better to choose one form and to stick to it.	Change "a" to "an".	2017/1/9 9:42
6615	John Coffey	225	1 27.4.1	158	12	E	Y	158.12 27.4.1	Inapposite phrasing: "whose destination STAs associate with". The STAs have presumably already associated with the APs, so the present tense is misplaced.	Change to "whose destination STAs are associated with".	2017/1/9 9:42
6616	John Coffey	225	1 27.4.1	158	12	E	Y	158.12 27.4.1	Use of plural where singular required: "with more than one APs".	Change to "with more than one AP".	2017/1/9 9:42
6617	John Coffey	225	1 27.4.1	158	16	E	Y	158.16 27.4.1	Awkward phrasing or missing text: "and has".	Change to "and that has".	2017/1/9 9:42
6618	John Coffey	225	1 27.4.1	158	19	E	Y	158.19 27.4.1	Inconsistent terminology: here we have "MU BAR", whereas in almost every other case we have "MU-BAR". It would be better to choose one form and to stick to it.	Add hyphen.	2017/1/9 9:42
6619	John Coffey	225	1 27.4.2	158	42	E	Y	158.42 27.4.2	Unclear language: "intended to an originator". What does this mean?	Clarify.	2017/1/9 9:42
6620	John Coffey	225	1 27.4.2	159	5	E	Y	159.05 27.4.2	Solecism: "an STA".	Change to "a STA".	2017/1/9 9:42
6621	John Coffey	225	1 27.4.2	159	16	T	Y	159.16 27.4.2	Missing condition: "either" followed by only one condition. Presumably there should be additional text: "or [other condition]".	Add appropriate condition.	2017/1/9 9:42
6622	John Coffey	225	1 27.4.3	159	55	E	Y	159.55 27.4.3	Unclear language: "intended to a STA". What does this mean?	Clarify.	2017/1/9 9:42
6623	John Coffey	225	1 27.4.3	160	8	T	Y	160.08 27.4.3	Missing condition / garbled text: the third item doesn't parse correctly. In the first two bullet items we had a clear action ("is set"; "shall"), but there is no applicable one in the third bullet item. (the one "shall" lies back only to the "wherein").	Clarify.	2017/1/9 9:42
6624	John Coffey	225	1 27.4.4.1	160	38	E	Y	160.38 27.4.4.1	Inconsistent usage: here we have "a MU-BAR", whereas in most other cases we have "an MU-BAR". It would be better to choose one form and to stick to it.	Change "a" to "an".	2017/1/9 9:42
6625	John Coffey	225	1 27.4.4.2	160	52	E	Y	160.52 27.4.4.2	Garbled text / anthropomorphism: "An AP that sends a DL MU PPDU that intends to solicit". The DL MU PPDU doesn't intend anything. The AP is a decision-making agent but even then it's still an object.	Change "that intends to solicit" to "that is intended to solicit".	2017/1/9 9:42
6626	John Coffey	225	1 27.4.4.2	160	61	E	Y	160.61 27.4.4.2	Inconsistent usage: we have both "a S-MPDU" and "an S-MPDU" in the draft. Though the former is used more often, the latter seems correct.	Change "a S-MPDU" to "an S-MPDU".	2017/1/9 9:42
6627	John Coffey	225	1 27.4.4.2	160	61	E	Y	160.61 27.4.4.2	Unclear language: "intended to it". What does this mean?	Clarify.	2017/1/9 9:42
6628	John Coffey	225	1 27.4.4.2	160	63	E	Y	160.63 27.4.4.2	Unclear language: "intended to it". What does this mean?	Clarify.	2017/1/9 9:42
6629	John Coffey	225	1 27.4.4.2	161	1	E	Y	161.01 27.4.4.2	Unclear language: "intended to it". What does this mean?	Clarify.	2017/1/9 9:42
6630	John Coffey	225	1 27.4.4.2	161	5	E	Y	161.05 27.4.4.2	Incorrect use of definite article: "The control response frame".	Change to "A control response frame".	2017/1/9 9:42

6631 John Coffey	225	1 27.4.4.3	161	11	E	Y	161.11 27.4.4.3	Garbled text / anthropomorphism: "An AP that sends a DL MU PPDU that intends to solicit". The DL MU PPDU doesn't intend anything. The AP is a decision-making agent but even then it's still an object.	Change "that intends to solicit" to "that is intended to solicit".	2017/1/9 9:42
6632 John Coffey	225	1 27.4.4.3	161	15	E	Y	161.15 27.4.4.3	Missing preposition: "is always responded with".	Change to "is always responded to with".	2017/1/9 9:42
6633 John Coffey	225	1 27.4.4.3	161	19	E	Y	161.19 27.4.4.3	Inconsistent usage: we have both "a S-MPDU" and "an S-MPDU" in the draft. Though the former is used more often, the latter seems correct.	Change "a S-MPDU" to "an S-MPDU".	2017/1/9 9:42
6634 John Coffey	225	1 27.4.4.3	161	19	E	Y	161.19 27.4.4.3	Unclear language: "intended to it". What does this mean?	Clarify.	2017/1/9 9:42
6635 John Coffey	225	1 27.4.4.3	161	22	E	Y	161.22 27.4.4.3	Unclear language: "intended to it". What does this mean?	Clarify.	2017/1/9 9:42
6636 John Coffey	225	1 27.4.4.3	161	27	E	Y	161.27 27.4.4.3	Unclear language: "intended to it". What does this mean?	Clarify.	2017/1/9 9:42
6637 John Coffey	225	1 27.4.4.3	161	30	T	Y	161.30 27.4.4.3	Inconsistent terminology: here we have "a Trigger-based PPDU", whereas almost everywhere else in the draft we have "an HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change "a Trigger-based PPDU" to "an HE trigger-based PPDU".	2017/1/9 9:42
6638 John Coffey	225	1 27.4.4.4	161	37	E	Y	161.37 27.4.4.4	Garbled text / anthropomorphism: "that intends to solicit". The Basic variant Trigger frame doesn't intend anything. The non-AP STA is a decision-making agent but even then it's still an object.	Change "that intends to solicit" to "that is intended to solicit".	2017/1/9 9:42
6639 John Coffey	225	1 27.4.4.4	161	42	T	Y	161.42 27.4.4.4	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42
6640 John Coffey	225	1 27.4.4.4	161	56	T	Y	161.56 27.4.4.4	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42
6641 John Coffey	225	1 27.4.4.4	161	57	T	Y	161.57 27.4.4.4	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.	2017/1/9 9:42
6642 John Coffey	225	1 27.4.4.4	161	60	E	Y	161.60 27.4.4.4	Incorrect inclusion of indefinite article: "in a DL SU PPDU format". Is there more than one such format?	Delete "a".	2017/1/9 9:42
6643 John Coffey	225	1 27.4.4.5	162	5	E	Y	162.05 27.4.4.5	Garbled text / anthropomorphism: "that intends to solicit". The Basic variant Trigger frame doesn't intend anything. The non-AP STA is a decision-making agent but even then it's still an object.	Change "that intends to solicit" to "that is intended to solicit".	2017/1/9 9:42
6644 John Coffey	225	1 27.4.4.5	162	10	T	Y	162.10 27.4.4.5	Undefined term: "S-MPDU". No definition appears in the draft, and it isn't part of 802.11-2016 either.	Define the term.	2017/1/9 9:42
6645 John Coffey	225	1 27.4.4.5	162	11	T	Y	162.11 27.4.4.5	Undefined term: "S-MPDU". No definition appears in the draft, and it isn't part of 802.11-2016 either.	Define the term.	2017/1/9 9:42
6646 John Coffey	225	1 27.4.4.5	162	12	E	Y	162.12 27.4.4.5	Inconsistent usage: here we have "HE-AP", whereas everywhere else in the draft we have "HE AP". It would be beltre to choose one form and to stick to it.	Change to "HE AP".	2017/1/9 9:42
6647 John Coffey	225	1 27.4.4.5	162	14	E	Y	162.14 27.4.4.5	Missing article: "with Ack frame".	Change to "with an Ack frame".	2017/1/9 9:42

6648 John Coffey	225	1 27.4.4.5	162	15	T	Y	162.15 27.4.4.5	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline defines "VHT single MPDU" (note: no capitalization). It is unacceptable to force the reader to guess what is meant.	Clarify.		2017/1/9 9:42
6649 John Coffey	225	1 27.4.4.5	162	19	E	Y	162.19 27.4.4.5	Singular used where plural required: "to each of the STA".	Change "STA" to "STAs".		2017/1/9 9:42
6650 John Coffey	225	1 27.4.4.5	162	23	E	Y	162.23 27.4.4.5	Garbled text: "announce the report the reception".	Ungarble it.		2017/1/9 9:42
6651 John Coffey	225	1 27.4.4.5	162	23	E	Y	162.23 27.4.4.5	Singluar / plural matching issue: "the receivers of [...] frame".	Change "frame" to "frames"..		2017/1/9 9:42
6652 John Coffey	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	Typo: two consecutive full stops.	Delete one full stop.		2017/1/9 9:42
6653 John Coffey	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	Inconsistent usage: "A HE AP". Almost everywhere else in the draft we have "An HE".	Change "A" to "An".		2017/1/9 9:42
6654 John Coffey	225	1 27.4.4.5	162	27	E	Y	162.27 27.4.4.5	Inconsistent form: here we have "a non-AP HE STA", whereas in most other places in the draft we have "an HE non-AP STA". It would be better to choose one form and to stick to it.	Change "a non-AP HE STA" to "an HE non-AP STA".		2017/1/9 9:42
6655 John Coffey	225	1 27.4.4.5	162	28	E	Y	162.28 27.4.4.5	Adjective used where adverb required: "immediate preceding".	Change to "immediately preceding".		2017/1/9 9:42
6656 John Coffey	225	1 27.5.1.1	162	45	E	Y	162.45 27.5.1.1	Wrong article: "with the HE-SIG-B".	Change to "with an HE-SIG-B".		2017/1/9 9:42
6657 John Coffey	225	1 27.5.1.2	163	5	E	Y	163.05 27.5.1.2	Wrong article: "within a same HE MU PPDU".	Change to "within the same HE MU PPDU".		2017/1/9 9:42
6658 John Coffey	225	1 27.5.1.2	163	10	E	Y	163.10 27.5.1.2	Singlau / plural matching issue: "one of the STA-ID field".	Change "field" to "fields".		2017/1/9 9:42
6659 John Coffey	225	1 27.5.1.3	163	35	E	Y	163.35 27.5.1.3	Inconsistent usage: here we have "A HE AP", whereas almost everywhere else in the draft we have "An HE AP".	Change "a" to "an".		2017/1/9 9:42
6660 John Coffey	225	1 27.5.1.3	163	40	E	Y	163.40 27.5.1.3	Wrong article: "The STA that receives".	Change "The" to "A".		2017/1/9 9:42
6661 John Coffey	225	1 27.5.2.1	163	58	E	Y	163.58 27.5.2.1	Superfluous article: "The UL MU operation".	Change to "UL MU operation".		2017/1/9 9:42
6662 John Coffey	225	1 27.5.2.2.1	164	42	E	Y	164.42 27.5.2.2.1	Case agreement issue: "frames that includes".	Change to "frames that include".		2017/1/9 9:42
6663 John Coffey	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	Double full stop.	Delete a "full stop".		2017/1/9 9:42
6664 John Coffey	225	1 27.5.2.2.1	164	53	E	Y	164.53 27.5.2.2.1	Inconsistent usage: we have both "a S-MPDU" and "an S-MPDU" in the draft. Though the former is used more often, the latter seems correct.	Change "a S-MPDU" to "an S-MPDU".		2017/1/9 9:42
6665 John Coffey	225	1 27.5.2.2.1	165	23	E	Y	165.23 27.5.2.2.1	Unclear language / colloquial use: "at least ... [time] ... passes".	Change "passes" to "elapses".		2017/1/9 9:42
6666 John Coffey	225	1 27.5.2.2.1	165	32	E	Y	165.32 27.5.2.2.1	Unusual phrasing: "larger than or equal to".	Change "larger" to "greater".		2017/1/9 9:42
6667 John Coffey	225	1 27.5.2.2.2	165	63	E	Y	165.63 27.5.2.2.2	Use of plural where singular required: "with more than one APs".	Change "APs" to "AP".		2017/1/9 9:42
6668 John Coffey	225	1 27.5.2.2.2	165	63	E	Y	165.63 27.5.2.2.2	Inconsistent usage: here we have "a MU-RTS", whereas in most other cases we have "an MU-RTS". It would be better to choose one form and to stick to it.	Change "a" to "an".		2017/1/9 9:42
6669 John Coffey	225	1 27.5.2.2.2	165	65	E	Y	165.65 27.5.2.2.2	Inconsistent usage: here we have "a MU-BAR", whereas in most other cases we have "an MU-BAR". It would be better to choose one form and to stick to it.	Change "a" to "an".		2017/1/9 9:42
6670 John Coffey	225	1 27.5.2.2.2	166	28	E	Y	166.28 27.5.2.2.2	Superfluous word: "either explicit, or implicitly or both". What function does the word "either" play and how would the meaning change if it is deleted?	Delete "either".		2017/1/9 9:42
6671 John Coffey	225	1 27.5.2.2.2	166	28	E	Y	166.28 27.5.2.2.2	Superfluous comma: "explicity, or implicitly or both". Wihtout the first "or" this might be acceptable, but overall it seems best to delete the comma.	Delete comma.		2017/1/9 9:42
6672 John Coffey	225	1 27.5.2.2.2	166	53	E	Y	166.53 27.5.2.2.2	Missing article: "allocate UL subchannel".	Change to "allocate an UL subchannel".		2017/1/9 9:42
6673 John Coffey	225	1 27.5.2.2.2	166	59	E	Y	166.59 27.5.2.2.2	Unclear language: "intended to it". What does this mean?	Clarify.		2017/1/9 9:42
6674 John Coffey	225	1 27.5.2.2.2	166	65	E	Y	166.65 27.5.2.2.2	Missing space at end of sentence.	Add space.		2017/1/9 9:42
6675 John Coffey	225	1 27.5.2.2.2	167	1	E	Y	167.01 27.5.2.2.2	Missing space: "PPDU.A".	Add space.		2017/1/9 9:42

6676 John Coffey	225	1 27.5.2.3	167	48	E	Y	167.48 27.5.2.3	Superfluous word: "that contains [...] or contains [...]". It would be reasonable to write "That contains X or that contains contains Y", and better to write "That contains X or Y". The construction in the draft is odd.	Delete the second instance of "contains".	2017/1/9 9:42
6677 John Coffey	225	1 27.5.2.3	167	67	T	Y	167.67 27.5.2.3	UNRESOLVED TBD. DRAFTS MUST BE COMPLETE BEFORE BEING SENT TO LETTER BALLOT. IT IS UNACCEPTABLE TO HAVE ANY UNRESOLVED TBDs AND THIS SHOULD HAVE DISQUALIFIED THE LETTER BALLOT FROM BEING LAUNCHED.	Resolve the TBD.	2017/1/9 9:42
6678 John Coffey	225	1 27.5.2.3	168	46	E	Y	168.46 27.5.2.3	Rhubarb rhubarb.	Fix.	2017/1/9 9:42
6679 John Coffey	225	1 27.5.2.3	168	51	E	Y	168.51 27.5.2.3	Rhubarb rhubarb.	Fix.	2017/1/9 9:42
6680 John Coffey	225	1 27.5.2.3	168	59	E	Y	168.59 27.5.2.3	Wrong article" set to the value based on". If it's just "based on", it would be better to use the indefinite article.	Change "the" to "a".	2017/1/9 9:42
6681 John Coffey	225	1 27.5.2.3	169	1	T	Y	169.01 27.5.2.3	Ungrammatical and confusing text: what is the "containing an UL MU Response Scheduling A-Control subfield" referring to? By setting this text off in commas, it seems it doesn't refer to the soliciting MPDU(s) (which would cause a case agreement problem). But read illerally, the clause set off in commas seems to refer to the STA.	Rewrite to clarify. If the clause set off by commas referes to the soliciting MPDU(s), remove commas and correct case. If it refers to the HE trigger-based PPDU, move it earlier in the sentence, to follow "HE trigger-based PPDU".	2017/1/9 9:42
6682 John Coffey	225	1 27.5.2.3	169	8	E	Y	169.08 27.5.2.3	Missing article: "of [X], [Y], [Z] and [W] fields".	Add "the" after "of".	2017/1/9 9:42
6683 John Coffey	225	1 27.5.2.3	169	12	E	Y	169.12 27.5.2.3	Superfluous comma: "BSS_Color, and DCM". In a list of two elements where "and" is used, a comma is not needed and indeed just confuses the matter.	Delete comma.	2017/1/9 9:42
6684 John Coffey	225	1 27.5.2.3	169	35	E	Y	169.35 27.5.2.3	Wrong article: "The STA that responds". Is there just one?	Change "The" to "A".	2017/1/9 9:42
6685 John Coffey	225	1 27.5.2.3	169	41	T	Y	169.41 27.5.2.3	Inconsistent terminology: here we have "the trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6686 John Coffey	225	1 27.5.2.3	169	53	E	Y	169.53 27.5.2.3	Missing text: "and subject to".	Change to "and is subject to".	2017/1/9 9:42
6687 John Coffey	225	1 27.5.2.3	169	60	E	Y	169.60 27.5.2.3	Inconsistent terminology: here we have "MU BAR", whereas in almost every other case we have "MU-BAR". It would be better to choose one form and to stick to it.	Add hyphen.	2017/1/9 9:42
6688 John Coffey	225	1 27.5.2.3	170	15	E	Y	170.15 27.5.2.3	Awkward usage: "with a same HE trigger-based PPDU".	Change to "within the same HE trigger-based PPDU".	2017/1/9 9:42
6689 John Coffey	225	1 27.5.2.4	170	48	E	Y	170.48 27.5.2.4	Superfluous and ungrammatical "of": "multiple of 20 MHz".	Delete "of".	2017/1/9 9:42
6690 John Coffey	225	1 27.5.2.4	170	61	T	Y	170.61 27.5.2.4	A question of clarification: the AP does not have to set CS Required = 1 when all HE trigger-based frames contain an Ack or BlackAck frame. When taken together with the rest of the draft, does this mean that all solicited HR trigger-based frames may contain ONLY an Ack or BlackAck? Or may these HE trigger-based frames contain other data aggregated with or piggybacked onto the Ack or BlockAck? The latter should be clearly unacceptable, as it would permit a radical departure from the fundamental groundrules of the entire technology via the simple expedient of tacking an Ack or BlockAck onto other data.	Clarify that the condition means that all solicited HE trigger-based frames shall contain ONLY an Ack or BlockAck.	2017/1/9 9:42

6691 John Coffey	225	1 27.5.2.4	170	61	T	Y	170.61 27.5.2.4	Why is there an exception to the usual CS rules when the HE trigger-based frames contain an Ack or BlockAck? The CS rules are there to ensure coexistence, and any departure from them needs to be justified by (at least) a demonstrated infeasibility of any alternative. Here that has not been demonstrated and it seems it could not be demonstrated: the existing rules have served the technology very well, including Acks and BlockAcks.	Remove the exception for the case where all solicitied HE trigger-based PPDUs contain an Ack or BlockAck.	2017/1/9 9:42
6692 John Coffey	225	1 27.5.2.4	170	63	T	Y	170.63 27.5.2.4	It seems from this text that an AP can unilaterally permit STAs to transmit "without regard to the busy-idle state of the medium" (line 56 above) for a time up to 584 microseconds (line 2 of the next page). Yes, there are some restrictions, but on the other hand we should note that when this permission is granted, multiple STAs are simultaneously permitted to ignore the normal rules. This seems very strange. No such permission should ever be given unless there is a strong showing of necessity, which doesn't seem to be the case here. Even if the mechanism is included, there should be much stronger safeguards before it is invoked.	Delete the CS Required bit and all text associated with CS Required = 0 in the draft.	2017/1/9 9:42
6693 John Coffey	225	1 27.5.2.5	171	11	E	Y	171.11 27.5.2.5	"to assist its AP in allocating UL MU resources in an efficient way." In a technical specification, there should be minimal advocacy / advertising / marketing: the text should be kept as factual as possible. In this case, what is gained by the inclusion of the words "in an efficient way", and how would the meaning change is they are deleted?	Delete "in an efficient way".	2017/1/9 9:42
6694 John Coffey	225	1 27.5.2.5	171	40	E	Y	171.40 27.5.2.5	Superfluous text, apparently left over from editing notes: "(#2190, #2191)".	Delete.	2017/1/9 9:42
6695 John Coffey	225	1 27.5.2.5	171	41	T	Y	171.41 27.5.2.5	Incomplete cross-reference: "Table 9-XX".	Add full table number.	2017/1/9 9:42
6696 John Coffey	225	1 27.5.2.5	171	56	T	Y	171.56 27.5.2.5	Inconsistent terminology: here we have "the trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6697 John Coffey	225	1 27.5.2.5	171	59	T	Y	171.59 27.5.2.5	Inconsistent terminology: here we have "the Trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6698 John Coffey	225	1 27.5.2.5	172	8	E	Y	172.08 27.5.2.5	Superfluous right parenthesis.	Delete it.	2017/1/9 9:42
6699 John Coffey	225	1 27.5.2.5	172	10	T	Y	172.10 27.5.2.5	Inconsistent terminology: here we have "the trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6700 John Coffey	225	1 27.5.2.5	172	20	E	Y	172.20 27.5.2.5	Garbled text: what does "that asks for" refer to? If it's the control, data, and management frames then it should be "ask", while if it's the BSRP Trigger frame, then the next subclause needs to be set off with commas.	Clarify and correct.	2017/1/9 9:42
6701 John Coffey	225	1 27.5.2.5	172	20	T	Y	172.20 27.5.2.5	The statement that the acknowledgment has "high priority" doesn't seem to mean much. High compared with what? It may be that "highest" is meant, but if so, it's essential to say so, because that's not what the text says now.	Change "high" to "highest" (if this is what is intended).	2017/1/9 9:42

6702	John Coffey	225	1 27.5.2.6.1	172	29	E	Y	172.29 27.5.2.6.1	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6703	John Coffey	225	1 27.5.2.6.1	172	52	E	Y	172.52 27.5.2.6.1	Wrong article: "The non-AP STA with dot11OFDMARandomAccessOptionImlemented set to true". Is there just one?	Change "The" to "A".	2017/1/9 9:42
6704	John Coffey	225	1 27.5.2.6.1	172	54	E	Y	172.54 27.5.2.6.1	Confusing language: why do we have "The HE STA" here? If this refers back to the STA in the previous sentence, we would expect to see simply "The STA". Note that the previous sentence didn't even mention the HE part.	Delete "HE".	2017/1/9 9:42
6705	John Coffey	225	1 27.5.2.6.2	173	19	E	Y	173.19 27.5.2.6.2	Inconsistent form: here we have "HE Trigger-based PPDU for STA2", whereas almost everywhere else in the draft we have "HE trigger-based".	Change "HE Trigger-based PPDU" to "HE trigger-based PPDU".	2017/1/9 9:42
6706	John Coffey	225	1 27.5.2.6.2	173	19	E	Y	173.19 27.5.2.6.2	Inconsistent form: here we have "HE Trigger-based PPDU for STA1", whereas almost everywhere else in the draft we have "HE trigger-based".	Change "HE Trigger-based PPDU" to "HE trigger-based PPDU".	2017/1/9 9:42
6707	John Coffey	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	Missing full stop at end of sentence.	Add full stop.	2017/1/9 9:42
6708	John Coffey	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	Missing space between sentences.	Add space.	2017/1/9 9:42
6709	John Coffey	225	1 27.5.2.6.2	173	50	T	Y	173.50 27.5.2.6.2	"If the selected RU is considered busy": this raises the question of how HE devices in OBSSs should consider the initial trigger frame, assuming they are able to decode it. One plausible rule is that they should interpret the medium as busy, just as if an initial CTS-to-Self had been transmitted (even though the following transmission(s) will be UL from other STAs, not DL by the original transmitter). But another way of looking at it is that as a policy issue, we're in a contention-based access mode, albeit one that only HE devices understand, and that devices in OBSSs may still contend for the medium and use it if it's idle. It's not clear which of these is intended here; perhaps the OBSS STAs simply set their Inter-BSS NAV and we have the first possibility by default. If so, it seems the wrong approach. The amendment is supposed to provide high efficiency in dense environments and as a policy matter it should never be the	Clarify the rules for HE devices in OBSSs. Clarify or specify, as appropriate, that such devices may access the medium notwithstanding receipt of the initial trigger frame.	2017/1/9 9:42
6710	John Coffey	225	1 27.5.2.6.2	173	52	E	Y	173.52 27.5.2.6.2	Grammatical error: "does not decrements". It either "decrements" or "does not decrement".	Change to "does not decrement".	2017/1/9 9:42
6711	John Coffey	225	1 27.5.2.6.2	174	19	T	Y	174.19 27.5.2.6.2	How does coexistence with deployed legacy devices, especially those in OBSSs, work? Here it seems that the HE AP transmits an initial trigger frame, which holds all devices within range off the medium for the signaled duration. Perhaps HE devices in OBSSs may still transmit (this is not clear), but certainly legacy devices in OBSSs cannot. These legacy devices may suffer a huge loss of access to the medium if use of this mode becomes prevalent. Essentially, instead of the HE non-AP STAs that take advantage of this mode having to fight their own way to the top via ordinary EDCA, their AP unilaterally seizes the medium with AP priority and these devices then share the rarified space with each other. This is far too favorable to HE devices and some controls are necessary. At the very least recommeminded practices for best behavior need to be specified.	Provide specifications for recommended behavior for APs that use this mode, that will have the effect of allowing fair access to the medium by legacy devices in OBSSs. (Note: a sketch of one approach that would be acceptable can be found in doc. IEEE 802.11/16-0102r1, slides 20-23.)	2017/1/9 9:42

6712 John Coffey	225	1 27.5.2.6.2	174	19	T	Y	174.19 27.5.2.6.2	In some ways the random access OFDMA modes are an odd fit for the 11ax project: one of the main benefits of OFDMA is the potential increase in efficiency from the removal of most contention-based overhead (collisions, RTS, CTS, unused backoffs slots). This potential increase in efficiency may provide a net gain even after accounting for the new, considerably longer, HE preambles. But with random access OFDMA we still have the contention overhead but now with the new, longer, preambles as well. Perhaps there's an arguable potential range difference, but once again range extension isn't part of the project. A stronger justification is that 11ax will involve OFDMA as a major component, and it's difficult to jump straight from contention-based access to fully scheduled operation; perhaps there should be a way of bridging the two modes of operation. However even	Permit the AP to send an immediate supplementary frame identifying RU's and for each RU a list of STAs. These STAs may access the RU if it's not already in use. If none on the list does (or are seen to do so), other STAs start counting down their OCW backoff counters as in the current draft.		2017/1/9 9:42
6713 John Coffey	225	1 27.5.2.7	174	24	E	Y	174.24 27.5.2.7	Strange wording: "feedbacks". This construction seems to suggest that there can be such a thing as "a feedback".	Change "short feedbacks" to "short frames carrying feedback".		2017/1/9 9:42
6714 John Coffey	225	1 27.5.2.7	174	24	E	Y	174.24 27.5.2.7	Advertising alert: "from a very high number of STAs". Please avoid words like "very", which have no normative content but that seem to be making a sales pitch.	Change "from a very high number of STAs" to "from multiple STAs".		2017/1/9 9:42
6715 John Coffey	225	1 27.5.2.7	174	25	E	Y	174.25 27.5.2.7	Superfluous comma: "HE STAs,".	Delete it.		2017/1/9 9:42
6716 John Coffey	225	1 27.5.2.7	174	25	E	Y	174.25 27.5.2.7	Advertising alert part 2: "in an efficient manner". What is achieved by including this text in the draft, especially since the word "short" is already present in the same sentence? The AP would hardly send short frames in an inefficient manner?	Delete "in an efficient manner".		2017/1/9 9:42
6717 John Coffey	225	1 27.5.2.7	174	25	E	Y	174.25 27.5.2.7	Strange wording: "feedbacks". This construction seems to suggest that there can be such a thing as "a feedback".	Change "feedbacks" to "frames carrying feedback".		2017/1/9 9:42
6718 John Coffey	225	1 27.5.2.7	174	27	E	Y	174.27 27.5.2.7	Strange wording: "feedbacks". This construction seems to suggest that there can be such a thing as "a feedback".	Change "feedbacks" to "frames carrying feedback".		2017/1/9 9:42
6719 John Coffey	225	1 27.5.2.7	174	28	T	Y	174.28 27.5.2.7	The NDP feedback report is optional for a non-AP STA, but what about the remaining case? Is it mandatory or optional for an AP?	Specify whether this mode is mandatory or optional for HE APs.		2017/1/9 9:42
6720 John Coffey	225	1 27.5.2.7	174	28	T	Y	174.28 27.5.2.7	The heading includes the word "procedure"; where is it? How does the AP signal that the responding STAs can only send NDP frames?	Define a proecdure or delete the mode.		2017/1/9 9:42
6721 John Coffey	225	1 27.5.3	174	33	T	Y	174.33 27.5.3	Descriptive text used where it seems normative text must have been intended: "A TXOP can include". If the intention is to clarify that this is permitted, it is essential to say so.	Change the sentence to "An AP may include both DL MU and UL MU transmissions in a TXOP."		2017/1/9 9:42
6722 John Coffey	225	1 27.5.3	174	36	T	Y	174.36 27.5.3	Descriptive text used where it seems normative text must have been intended: "an HE AP can initiate". If the intention is to clarify that this is permitted, it is essential to say so.	Change "can" to "may".		2017/1/9 9:42
6723 John Coffey	225	1 27.5.3	174	35	E	Y	174.35 27.5.3	Missing article: "If MU Cascading Support field".	Change to "If the MU Cascading Support field".		2017/1/9 9:42
6724 John Coffey	225	1 27.5.3	175	44	E	Y	175.44 27.5.3	Strange use of plural form: "contents".	Change to "content".		2017/1/9 9:42
6725 John Coffey	225	1 27.5.3	175	47	E	Y	175.47 27.5.3	Missing article: "If MU Cascading Support field".	Change to "If the MU Cascading Support field".		2017/1/9 9:42
6726 John Coffey	225	1 27.5.3	175	52	E	Y	175.52 27.5.3	Missing article: "If MU Cascading Support field".	Change to "If the MU Cascading Support field".		2017/1/9 9:42

6727 John Coffey	225	1 27.5.3	175	53	E	Y	175.53 27.5.3	Strange and non-standard wording: "the HE AP associated by the HE non-AP STA". This construction does not seem to appear anywhere in the 3,534 pages of the 2016 rollup of the base standard. Let's not add it now.	Change "associated by the HE non-AP STA" to "with which the HE non-AP STA is associated".	2017/1/9 9:42
6728 John Coffey	225	1 27.5.3	175	61	E	Y	175.61 27.5.3	Inconsistent terminology: in "DL HE MU PPDU", the STA type is in the middle, whereas in practically every oher instance the type is at the beginning.	Change "DL HE MU" to "HE DL MU".	2017/1/9 9:42
6729 John Coffey	225	1 27.5.3	175	62	E	Y	175.62 27.5.3	Inconsistent terminology: in "DL HE MU PPDU", the STA type is in the middle, whereas in practically every oher instance the type is at the beginning.	Change "DL HE MU" to "HE DL MU".	2017/1/9 9:42
6730 John Coffey	225	1 27.6.2	176	22	E	Y	176.22 27.6.2	Inconsistent usage: here we have "a NDP", weheras elsewhere we have "an NDP". The latter seems better.	Change "a NDP" to "an NDP".	2017/1/9 9:42
6731 John Coffey	225	1 27.6.2	176	26	E	Y	176.26 27.6.2	Independent clauses linked by a comma without a coordinating conjunction.	Change comma to semicolon.	2017/1/9 9:42
6732 John Coffey	225	1 27.6.2	177	16	T	Y	177.16 27.6.2	Inconsistent use of defined term: here we have "STA info", whereas elsewhere we have "STA Info". If the same item is intended, the same term must be used.	Change "STA info" to "STA Info".	2017/1/9 9:42
6733 John Coffey	225	1 27.6.2	177	20	T	Y	177.20 27.6.2	Missing cross-reference: "Table YY-1". There appears to be no such table.	Add the table.	2017/1/9 9:42
6734 John Coffey	225	1 27.6.2	178	40	E	Y	178.40 27.6.2	Superfluous comma.	Delete comma.	2017/1/9 9:42
6735 John Coffey	225	1 27.6.4	179	24	T	Y	179.24 27.6.4	Non-existent unit used: "0.8 us".	Change to "ms".	2017/1/9 9:42
6736 John Coffey	225	1 27.6.4	179	24	T	Y	179.24 27.6.4	Non-existent unit used: "1.6 us".	Change to "ms".	2017/1/9 9:42
6737 John Coffey	225	1 27.6.4	179	25	T	Y	179.25 27.6.4	Non-existent unit used: "3.2 us".	Change to "ms".	2017/1/9 9:42
6738 John Coffey	225	1 27.6.4	179	27	T	Y	179.27 27.6.4	Non-existent unit used: "4 us".	Change to "ms".	2017/1/9 9:42
6739 John Coffey	225	1 27.7.2	180	33	E	Y	180.33 27.7.2	Grammatical error: "all non-AP STAs, which are associated to it". The comma has the effect of saying that all non-AP STAs are associated to the AP, rather than the presumably intended meaning of restricting the set of non-AP STAs to those that are so associated.	Delete comma.	2017/1/9 9:42
6740 John Coffey	225	1 27.7.2	180	33	E	Y	180.33 27.7.2	"Wicked which": in standard American English usage, "that" is preferred to "which" in this context. ("Fowler's rule"; still debated by the language mavens.)	Change "which" to "that".	2017/1/9 9:42
6741 John Coffey	225	1 27.7.2	180	58	E	Y	180.58 27.7.2	Spelling error: "supercede" should be "supersede", the former is incorrect whether we are using American or British English. (The 2016 rollup of the base standard has three instances of "supercede": oy vey!)	Change to "supersede".	2017/1/9 9:42
6742 John Coffey	225	1 27.7.2	180	59	E	Y	180.59 27.7.2	Missing space: "that is setup".	Change "setup" to "set up".	2017/1/9 9:42
6743 John Coffey	225	1 27.7.2	180	60	E	Y	180.60 27.7.2	Missing space: "that is setup".	Change "setup" to "set up".	2017/1/9 9:42
6744 John Coffey	225	1 27.7.2	181	31	E	Y	181.31 27.7.2	Missing right parenthesis.	Add right parenthesis.	2017/1/9 9:42
6745 John Coffey	225	1 27.7.2	181	38	T	Y	181.38 27.7.2	Inconsistent terminology: here we have "the trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6746 John Coffey	225	1 27.5.3	175	60	E	Y	175.60 27.5.3	Case disagreement: the HE trigger-based PPDUs that follows".	Fix.	2017/1/9 9:42
6747 John Coffey	225	1 27.7.2	181	40	T	Y	181.40 27.7.2	Inconsistent terminology: here we have "the trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6748 John Coffey	225	1 27.7.3.1	182	35	E	Y	182.35 27.7.3.1	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".	2017/1/9 9:42
6749 John Coffey	225	1 27.7.3.3	185	47	E	Y	185.47 27.7.3.3	Wrong article: "The TWT SP termination event occurs".	Change to "A TWT SP termination event occurs".	2017/1/9 9:42

6750	John Coffey	225	1 27.7.3.3	186	16	E	Y	186.16 27.7.3.3	Wrong article: "The TWT scheduled STA that is in PS mode". Is there just one?	Change "The" to "A".	2017/1/9 9:42
6751	John Coffey	225	1 27.7.3.3	186	17	T	Y	186.17 27.7.3.3	Inconsistent terminology: here we have "the trigger-based PPDU", whereas almost everywhere else in the draft we have "the HE trigger-based PPDU". If the same thing is intended, the same term should be used.	Change to "the HE trigger-based PPDU".	2017/1/9 9:42
6752	John Coffey	225	1 27.7.3.3	186	20	E	Y	186.20 27.7.3.3	Wrong article: "the PS-Poll or APSD trigger frame".	Change "the" to "a".	2017/1/9 9:42
6753	John Coffey	225	1 27.7.4	187	41	E	Y	187.41 27.7.4	Spurious hyphenation: "expected to wake-up".	Change to "expected to wake up".	2017/1/9 9:42
6754	John Coffey	225	1 27.8.2	188	55	E	Y	188.55 27.8.2	Wrong article: "the frame".	Change to "a frame".	2017/1/9 9:42
6755	John Coffey	225	1 27.8.2	188	58	E	Y	188.58 27.8.2	Wrong article: "the immediate acknowledgment".	Change to "an immediate acknowledgement".	2017/1/9 9:42
6756	John Coffey	225	1 27.8.2	188	61	E	Y	188.61 27.8.2	Wrong article: "the immediate acknowledgment".	Change to "an immediate acknowledgement".	2017/1/9 9:42
6757	John Coffey	225	1 27.8.2	189	8	E	Y	189.08 27.8.2	Garbled text: "After transmitting the acknowledgement frame immediate response immediate acknowledgement". What is that?	Clarify.	2017/1/9 9:42
6758	John Coffey	225	1 27.8.2	189	13	E	Y	189.13 27.8.2	Wrong verb form: "needs".	Change to "need".	2017/1/9 9:42
6759	John Coffey	225	1 27.9.1	190	7	T	Y	190.07 27.9.1	How do the spatial reuse modes help the goal of power saving, as is asserted here? Under legacy rules a STA simply evaluates the power of the incoming frame and if it exceeds the threshold, the STA stops there. The new rules involve various attempts to read further into the incoming frame to decide whether it's intra-BSS or inter-BSS, which has to consume more power, not less. It would be confusing and misleading to list power saving as an "objective" if no net power saving occurs.	Delete "and power saving".	2017/1/9 9:42
6760	John Coffey	225	1 27.9.1	190	11	T	Y	190.11 27.9.1	Use of undefined term: apparently when conditions are right for an "SR PPDU", an HE STA may go ahead and transmit an "SR PPDU". But what is an "SR PPDU"? The term appears nowhere in the draft except for this sentence.	Provide a definition for SR PPDU.	2017/1/9 9:42
6761	John Coffey	225	1 27.9.2.1	190	24	T	Y	190.24 27.9.2.1	"The received PPDU is an Inter-BSS PPDU" (as in 27.2.1). This excludes one of the main cases where spatial reuse might may some promise: an HE STA finishes transmitting and starts assessing the medium again, and finds that there are ongoing frames being transmitted. Perhaps the STA could conclude that these must be Inter-BSS (though that would require changes in 27.2.1, because it doesn't seem to be there now), but that would cause all Inter-BSS PPDUs to be subject to interference, and would vitiate the other conditions further below in this same section. However there is a way: there is already the concept of SR_Delay in the draft, and (assuming that this isn't shorthand for SRP_Delay, but instead a delay for all spatial reuse) the delay could be set to a uniform length that's long enough for reasonable PPDUs to finish. So: HE STA finishes its transmission, starts assessing medium, finds there	Rewrite the spatial reuse modes to eliminate the required classification into Inter-BSS and Intra-BSS, and add a uniform delay before spatial reuse may take effect, this delay to exceed a reasonable fragment size for legacy devices.	2017/1/9 9:42

6762	John Coffey	225	1 27.9.2.1	190	36	T	Y	190.36 27.9.2.1	Almost the entire OBSS_PD mode / SRP mode lacks basic protections to prevent matters from going disastrously wrong, as is all too possible. Unlike virtually any other mode, "bad" OBSS_PD decisions are not automatically self-righting (as too ambitious an MCS would be, for example) and do not have a natural limit to the damage that can be caused (as nnecessary use of RTS/CTS would be, for example). Worse, the effects of a "bad" OBSS-PD decision will typically not be felt by the offending device, but instead by a victim device in a different BSS, with no messaging system provided to alert any devices in the system to the problem. This is likely to cause particularly severe problems for already deployed non-HE devices, which have been designed without taking into the account the possibility that 802.11 might later adopt such a scheme. However there is one small bright spot: the text at this location allows for a	Modify so that the medium cannot be declared idle until at least enough time has passed that a minimum length fragment can be transmitted and acknowledged.		2017/1/9 9:42
6763	John Coffey	225	1 27.9.2.1	190	51	E	Y	190.51 27.9.2.1	Sentence lacks a verb: "SR Backoff procedure for SR delayed case". Is this a failed subheading?	Change to subheading or delete.		2017/1/9 9:42
6764	John Coffey	225	1 27.9.2.1	190	59	E	Y	190.59 27.9.2.1	Awkward phrasing / missing text: "and not update".	Change to "and has not updated".		2017/1/9 9:42
6765	John Coffey	225	1 27.9.2.1	190	60	T	Y	190.60 27.9.2.1	"the HE STA may resume its backoff procedure when the medium condition is IDLE". The timing involved is severely underdefined. In ordinary operation, a channel assessment is carried out at the beginning of a slot, and if the channel is idle, the backoff counter counts down before the end of the slot, thus preserving synchronization along slot boundaries. With the OBSS_PD rules, the HE STA must perform all sorts of assessments of the incoming PPDU, extending well past the initial slot boundary and possibly / probably not ending near a slot boundary. When it finally declares the medium is idle and resumes backoff countdown, does it do so immediately or in synchronization with the original slot boundaries or in synchronization with the slot boundaries of the OBSS PPDU? This is not specified in the draft.	Specify it.		2017/1/9 9:42
6766	John Coffey	225	1 27.9.2.1	190	60	T	Y	190.60 27.9.2.1	The issue of the timing of channel idle decisions psoses problems for fairness between HE devices. Compare two similarly situated HE STAs in the same BSS, STA A and STA B. Each sees an OBSS PPDU at essentialy the same power, but STA A makes the decision that the received frame is Inter-BSS marginally faster. Clearly STA A gains an advantage in medium access over STA B. By itself this might not necessarily be bad, if STA A does so by virtue of better processing. But as it is, it will be very difficult for an outsider to verify just how STA A has made its decision, since much depends in the received power levels at the STA's antenna connector, which will not be available to an outsider. Essentially STA A could deliver itself a meaningful and recurring advantage in channel access over STA B, perhaps by cutting a few non-observable corners. This is an undesirable state of affairs that could compromise the fairness	Specify a standardized delay (number of slots) for the decision to be made.		2017/1/9 9:42

6767 John Coffey	225	1 27.9.2.2	191	3	T	Y	191.03 27.9.2.2	With the definitions in the rest of the draft, the sentence "Adjusting the OBSS_PD level and transmit power can improve the system level performance and the utilization of the spectrum" is one-sided and incomplete. It would be at least equally true to say that adjusting the OBSS_PD level and transmit power can degrade system level performance and utilization of the spectrum, perhaps disastrously so. If the subject is to be raised at all, then basic respect for truth and objectivity should demand a balanced discussion with ample warning of the potential negative effects, not a biased piece of advertising fluff.	Delete the sentence.		2017/1/9 9:42
6768 John Coffey	225	1 27.9.2.2	191	24	T	Y	191.24 27.9.2.2	The adjustments in OBSS_PD shown in this diagram represent a great increase in the level of interference that will be seen by the intended receiver of the frame that is currently under way. "Every" device that is permitted to transmit under current rules will still be allowed to transmit under the rule in the diagram. In addition, many more devices will be allowed to transmit. Even worse, "every" new device that is allowed to transmit will be allowed to do so at a transmit power level that results in the maximum level of interference that would apply under the existing rules: essentially the rule requires the new, interfering transmitter to reduce its transmit power, but only by just enough to get the interference down to that existing maximum. The justifications that have been given for this radical departure from prior practice seem extraordinarily weak, and essentially seem to boil down to (a) a misconception that the	Remove the entire OBSS_PD mode and all references to it and all modes that enable it in whole or in part from the draft.		2017/1/9 9:42
6769 John Coffey	225	1 27.10.2	192	41	E	Y	192.41 27.10.2	Incorrect form of indefinite article: "an DL". If the term is to stay in the same form, this needs to be changed.	Change "an" to "a".		2017/1/9 9:42
6770 John Coffey	225	1 27.10.2	192	41	E	Y	192.41 27.10.2	Inconsistent terminology: in "DL HE MU PPDU", the STA type is in the middle, whereas in practically every other instance the type is at the beginning.	Change "DL HE MU" to "HE DL MU".		2017/1/9 9:42
6771 John Coffey	225	1 27.10.3	193	22	T	Y	193.22 27.10.3	Use of undefined term: "Single MPDU". From the capitalization, it must be inferred that this is a defined term, but where is the definition? The draft also uses "single MPDU", and for good measure both "VHT Single MPDU" and "VHT single MPDU". The baseline	Clarify.		2017/1/9 9:42
6772 John Coffey	225	1 27.10.4	194	35	T	Y	194.35 27.10.4	Use of undefined term: HE ER SU PPDU.	Provide a definition.		2017/1/9 9:42
6773 John Coffey	225	1 27.10.4	195	38	E	Y	195.38 27.10.4	Inconsistent terminology: in "DL HE MU PPDU", the STA type is in the middle, whereas in practically every other instance the type is at the beginning.	Change "DL HE MU" to "HE DL MU".		2017/1/9 9:42
6774 John Coffey	225	1 27.11.3	196	30	E	Y	196.30 27.11.3	List of two elements connected only by a comma.	Delete comma and add "or".		2017/1/9 9:42
6775 John Coffey	225	1 27.11.4	196	59	E	Y	196.59 27.11.4	"not a member of a transmitting STA's BSS": why "a"? Could this be anything other than "the" STA referenced in the previous sentence?	Change "a" to "the".		2017/1/9 9:42
6776 John Coffey	225	1 27.11.4	197	3	E	Y	197.03 27.11.4	"to the value of the value": is there some distinction intended from the simpler and more natural "to the value"?	Delete "of the value".		2017/1/9 9:42
6777 John Coffey	225	1 27.11.4	197	9	T	Y	197.09 27.11.4	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".		2017/1/9 9:42

6778 John Coffey	225	1 27.11.4	197	10	E	Y	197.10 27.11.4	Confusing syntax, with subordinate clause run into main clause: "An HE AP that decides to discontinue the use of the BSS color for the BSS that it serves, for example, after detecting a BSS Color overlap with an OBSS shall set". Here the "shall set" refers back to the HE AP, even though the sentence as structured seems to urge the reader to link it to the OBSS.	Change to "An HE AP that decides to discontinue the use of the BSS color for the BSS that it serves, for example after detecting a BSS Color overlap with an OBSS, shall set".	2017/1/9 9:42
6779 John Coffey	225	1 27.11.4	197	19	T	Y	197.19 27.11.4	An "HE non-AP STA should use [...] instead of the BSS_COLOR". Wait a moment, didn't we read just on the preceding page that an HE STA "shall maintain that single value of the BSS Color subfield for the lifetime of the BSS" (P196 LL43-44)? So already the text is contradicting itself. This needs to be resolved.	Reconcile the two statements at issue. For example, add some "Except when ..." qualifier to the earlier statement.	2017/1/9 9:42
6780 John Coffey	225	1 27.11.4	197	27	E	Y	197.27 27.11.4	Wrong article: "The HE non-AP STA". Is there just one?	Change "The" to "An".	2017/1/9 9:42
6781 John Coffey	225	1 27.11.4	197	27	T	Y	197.27 27.11.4	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6782 John Coffey	225	1 27.14.1	199	20	T	Y	199.20 27.14.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6783 John Coffey	225	1 27.14.1	199	28	T	Y	199.28 27.14.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6784 John Coffey	225	1 27.14.1	199	30	T	Y	199.30 27.14.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6785 John Coffey	225	1 27.14.1	199	36	T	Y	199.36 27.14.1	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6786 John Coffey	225	1 27.16.2	206	25	T	Y	206.25 27.16.2	"An HE AP may choose to change the BSS Color under certain conditions". That's not what was said back on page 196 (lines 43-44), where HE STAs had to use the same BSS Color for the lifetime of the BSS. The reader shouldn't have to flip backwards and forwards through the specification to see if apparently definitive requirements are countermanded by statements far away.	Reconcile the two statements at issue. For example, add some "Except when ..." qualifier to the earlier statement.	2017/1/9 9:42
6787 John Coffey	225	1 27.16.2	206	27	T	Y	206.27 27.16.2	"one other OBSS AP in the neighborhood that uses the same color as the BSS Color of its BSS". Sorry, this is quite muddled. Defined terms need to be capitalized; otherwise they retain their everyday meaning. So "color", lower case, is an actual color of the rainbow. The color of the AP depends on how it is painted. The BSS doesn't have a color. The draft uses colloquial shortcuts that aren't even short: why not simply say "one other OBSS AP in the neighborhood that uses that same BSS Color"?	Change to "one other OBSS AP in the neighborhood that uses the same BSS Color".	2017/1/9 9:42
6788 John Coffey	225	1 27.16.2	206	29	E	Y	206.29 27.16.2	"The algorithm to choose a new BSS Color is beyond the scope of this standard." Why "the" algorithm? Is there just one?	Change to "Methods and criteria for choosing a new BSS Color are beyond the scope of this standard".	2017/1/9 9:42
6789 John Coffey	225	1 27.16.2	206	51	T	Y	206.51 27.16.2	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6790 John Coffey	225	1 27.16.2	206	54	E	Y	206.54 27.16.2	Inconsistent usage: "A HE AP". Almost everywhere else in the draft we have "An HE".	Change "A" to "An".	2017/1/9 9:42
6791 John Coffey	225	1 27.16.2	206	59	E	Y	206.59 27.16.2	Inconsistent usage: "A HE AP". Almost everywhere else in the draft we have "An HE".	Change "A" to "An".	2017/1/9 9:42

6792 John Coffey	225	1 27.3.16.1	207	6	T	Y	207.06 27.3.16.1	Unclear and ambiguous description of normative behavior: "The QTP (quiet time period) defines a period for STA-to-STA operation during which only the HE STA which supports the STA-to-STA operation can transmit frames". Where in the draft is this "STA-to-STA operation" defined? If there are multiple HE (non-AP) STAs that support this STA-to-STA operation, may (or "can") all of them transmit frames during any QTP, or is it only the "requester" HE STA that may do so?	Clarify.	2017/1/9 9:42
6793 John Coffey	225	1 27.3.16.1	207	6	T	Y	207.06 27.3.16.1	Incorrect (or at least unclear) use of definite article: "the HE STA which". Is there only one such HE STA?	Clarify.	2017/1/9 9:42
6794 John Coffey	225	1 27.3.16.1	207	6	T	Y	207.06 27.3.16.1	Incorrect (or at least unclear) use of definite article: "the STA-to-STA operation". Is there only one such STA-to-STA operation?	Clarify.	2017/1/9 9:42
6795 John Coffey	225	1 27.3.16.1	207	6	T	Y	207.06 27.3.16.1	Contradictory statements about normative behavior: in the first sentence the quiet time period is described as a period "during which only [...] [one?] HE STA may transmit frames", but in the second and third sentences of the same paragraph we have statements that other HE STAs "should" remain quiet during these periods. So is it madatory or optional for other HE STAs to stay quiet?	At minimum, change "may" to "should" in the first sentence. Reword furtehr as appropriate to remove the awkwardness.	2017/1/9 9:42
6796 John Coffey	225	1 27.3.16.1	207	7	T	Y	207.07 27.3.16.1	Compare the statements "During the period an HE STA should not transmit frames unless it participates in the STA-to-STA operation" and "All HE STAs in the HE BSS not participating in the STA-to-STA operation should stay quiet during the period", which we have in consecutive sentences. What does the latter sentence add to the description of the recommended behavior for a non-participating HE STA? It seems to be a subset of the behavior described in the former sentence (since it repeats the recommended behavior but limits the recommendation to HE STAs in the (same?) HE BSS).	If the latter sentence adds anything, explain. If not, delete the sentence.	2017/1/9 9:42
6797 John Coffey	225	1 27.3.16.2	207	19	E	Y	207.19 27.3.16.2	Mismatched terms: "Quiet Time Period Operation (Figure 27-8 (Quieting time period operation)". Is is Quiet or Quieting?	Pick one term and stick to it.	2017/1/9 9:42
6798 John Coffey	225	1 27.3.16.2	207	52	T	Y	207.52 27.3.16.2	Ambiguous text: "if a Quiet Time Period Response frame is received with". Are we supposed to understand that the reception is by the "requester" HE STA? If so, why not say so?	Change "ir received with" to is received by the requester HE STA with".	2017/1/9 9:42
6799 John Coffey	225	1 27.3.16.2	207	52	E	Y	207.52 27.3.16.2	Awkward phrasing: "with the matching dialog token and response token".	Change to "with dialog toekn matching the response token" or some other less awkward wording.	2017/1/9 9:42
6800 John Coffey	225	1 27.3.16.2	207	52	E	Y	207.52 27.3.16.2	Run-on text with unclear intended parsing: "If [a frame] is received with the matching dialog token and response token with a status code set to a value of SUCCESS". Is it the response token or the frame that has the status code?	Clarify. Inserting a comma somewhere might suffice.	2017/1/9 9:42
6801 John Coffey	225	1 27.3.16.2	207	57	T	Y	207.57 27.3.16.2	Use of undefined term: "the Quite Time Period". Quite what?	Change "Quite" to "Quiet".	2017/1/9 9:42
6802 John Coffey	225	1 27.16.3.2	207	57	T	Y	207.57 27.16.3.2	Unclear and possibly garbled text: "the requested HE STA". What does this mean? Elsewhere in the same section we have "requester" HE STA so perhaps this is a misprint.	Change "requested" to "requester".	2017/1/9 9:42

6803 John Coffey	225	1 27.16.3.2	207	57	T	Y	207.57 27.16.3.2	Descriptive language used where it seems normative language must have been intended: the HE STA "can" transmit frames. The ability of the HE STA to transmit frames is not in question; presumably what is meant is that in the circumstances described, the HE STA is permitted to transmit frames.	Change "can" to "may".	2017/1/9 9:42
6804 John Coffey	225	1 27.16.3.2	207	57	T	Y	207.57 27.16.3.2	Unclear and ungrammatical text: "can transmit frames belongs to the requested type of STA-to-STA operation". What does this mean?	Clarify.	2017/1/9 9:42
6805 John Coffey	225	1 27.16.3.2	207	57	T	Y	207.57 27.16.3.2	Imprecise (possibly) normative text: "When a Quiet Time Period Setup frame is received, the requested(/r) HE STA can/may transmit". Isn't the whole point that that these "quiet times" repeat themselves periodidcally up to some limit, potentially at least? So whatever is being described here, it can't be the period immediately after reception of the setup frame.	Add appropriate text to clarify when the requester HE STA can or may transmit whatever it is supposed to be transmitting under this protocol.	2017/1/9 9:42
6806 John Coffey	225	1 27.16.3.2	207	58	T	Y	207.58 27.16.3.2	Normative text tied entirely to vendor specific elements: "the requested [requester?] HE STA can [may?] transmit frame belongs [?] to the requested type of STA-to-STA operation indicated by the vendor specific service identifier". Normally vendor specific behavior is outside the scope of the standard, but here we have an elaborate new protocol whose behavior is defined entirely in terms of vendor specific behavior. Are we allowed to mix normative text and vendor specific definitions in this way? And even if we are allowed to, should we? What is gained?	Change "frame" to "frames" and delete the text from "belongs to" to the end of the sentence.	2017/1/9 9:42
6807 John Coffey	225	1 27.16.3.2	207	59	T	Y	207.59 27.16.3.2	There's something odd about the entire discussion in subsection c. On the surface it seems to discuss the frames that may be sent in a QTP. But earlier, in 27.16.3.1, it is stated that non-participating HE STAs "should" not transmit during a quiet period. From this we can infer that remaining quiet during this "quiet period" is optional, and any and all HE STAs may transmit any frames they like during the same period. So what role does subsection c play? Where does the behavior it describes fall on the shall / should may spectrum?	Reword to clarify the role this subsection plays. Assuming that we keep the "should"s in 27.16.3.1, perhaps the best that can be done is to recast this subsection as a suggested example of what can be done. ("For example, an HE STA may ... .')	2017/1/9 9:42
6808 John Coffey	225	1 27.16.3.2	207	62	E	Y	207.62 27.16.3.2	Missing word: "inform the AP the type".	Change to "inform an AP of the type".	2017/1/9 9:42
6809 John Coffey	225	1 27.16.3.3	208	5	T	Y	208.05 27.16.3.3	Mandatory requirements embedded in optional mode: earlier it's stated that an AP "may" operate this way, but here we have a "shall". If this is just an illustrative example, it is confusing and inappropriate to have mandatory language included.	Reword to eliminate the "shall". If the idea is to describe some sort of conditionally mandatory behavior, then reword the introductory language to make it clear that this is an optional mode rather than simly an illustrative example.	2017/1/9 9:42
6810 John Coffey	225	1 27.16.3.3	208	11	T	Y	208.11 27.16.3.3	Mandatory requirements embedded in optional mode: earlier it's stated that an AP "may" operate this way, but here we have a "shall". If this is just an illustrative example, it is confusing and inappropriate to have mandatory language included.	Reword to eliminate the "shall". If the idea is to describe some sort of conditionally mandatory behavior, then reword the introductory language to make it clear that this is an optional mode rather than simly an illustrative example.	2017/1/9 9:42
6811 John Coffey	225	1 27.16.3.3	208	13	E	Y	208.13 27.16.3.3	Incorrect article: "the copy". Is there just one?	Change to "a copy".	2017/1/9 9:42
6812 John Coffey	225	1 27.16.3.3	208	23	E	Y	208.23 27.16.3.3	Missing article" "the Quiet Period Duration field of Quiet Period Setup frame".	Change to "the Quiet Period Duration field of a Quiet Period Setup frame".	2017/1/9 9:42
6813 John Coffey	225	1 27.16.3.3	208	23	T	Y	208.23 27.16.3.3	Incorrect use of definite article: "to the value no larger". Is there just one?	Change to "to a value no larger".	2017/1/9 9:42

6814 John Coffey	225	1 27.16.3.3	208	35	T	Y	208.35 27.16.3.3	During these "quiet periods", other HE STAs that follow the recoemennded procedure are held off the air. But there is no requirement that the requester HE STA actually has to transmit anything. Thus we have a procedure that permits STAs to reserve the medium without any requirement that it should actually be used, or any convenient method of terminating its use if the requester HE STA does not transmit (or is not allowed to transmit, under the CCA rules). This is the epitome of bad practice. The recommended practice should be modified so that other HE STAs are allowed to transmit once it becomes clear that this quiet period is not going to be used.	Modify the "should" statements in 27.16.3.1 to something appropriately shorter than the fl quiet period.	2017/1/9 9:42
6815 John Coffey	225	1 27.16.3.3	208	35	T	Y	208.35 27.16.3.3	In the illustrative example of behavior by the AP, we have the statement that the AP "shall" schedule the quiet period(s) according to the accepted request. The dividing line between mandatory and optional is very murky here since the example is introduced with a "may". But taking the "shall" at face value, we have the peculiar situation where a requester HE STA may request many repetitions of a quiet period, then not transmit during the first few quiet periods, and the AP would still be compelled to issue new QTP setups according to the original schedule. This is bad practice. Requests to hold the medium silent for transmissions that never arrive should not be honored.	Modify the language to make it clear (after clarifying the whole shall / should / may status of the whole mechanism) that an AP is under no obligation to issue QTP setup frames, regardless of any previously "accepted" request.	2017/1/9 9:42
6816 John Coffey	225	1 27.16.3.3	208	35	T	Y	208.35 27.16.3.3	The entire quiet time period mechanism is odd and unconvincing. Legacy devices will not understand, and will not remain quiet. Even for HE STAs, it is just a recommendation that the device "should" remain quiet, which is usually not worth anything. In a dense environment in which some devices follow the recommendation and others do not, the "quiet period" will actually be quite noisy. So what's the point? Apart from that the mechanism, even if it worked, would allow devices to make arbitrary reservations of the medium without a requirement for actually using it, and without a method of canceling unused quiet periods; even if this worked, it shouldn't be allowed.	Delete the "quiet time period" and all references to it in the draft.	2017/1/9 9:42
6817 John Coffey	225	1 28.1.1	209	18	E	Y	209.18 28.1.1	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".	2017/1/9 9:42

6818 John Coffey	225	1 28.1.4	213	51	T	Y	213.51 28.1.4	11ax suffers from a severe case of mode bloat. The amendment would be greatly improved by eliminating the great number of modes that have limited application and are of secondary importance to the main modes and project objectives. A goal of extended range appears absolutely nowhere in the PAR or CSD, yet it clutters up the amendment in many places. The HE_EXT_SU mode defined here has the feel of a slapdash add-on. Extending range in many ways works counter to the main goals of the 11ax amendment, since long-range (low-rate) modes will displace high-rate uses of the medium. If extended range is nevertheless deemed an important goal, let's do it properly by defining a new project that will consider all aspects of the problem, including the aspect of future extensibility. Shoehorning a minor mode into the 11ax amendment is the wrong way to go.	Eliminate the HE_EXT_SU mode and all references to it in the draft.		2017/1/9 9:42
6819 John Coffey	225	1 28.1.4	213	53	T	Y	213.53 28.1.4	"Support for the HE extended range PPDU format is mandatory". When this topic was discussed and voted on, there were many questions on whether there was sufficient justification to make the mode mandatory. The questions were never answered satisfactorily, and as far as I recall no real attempt was made to provide justification. It seems the mode is designated mandatory because the proposers wished it so, and for no other substantive reason. This is a very unsatisfactory way of developing a standard. The mode seems of limited importance, and its stated benefits are entirely orthogonal to the stated goals of the project. If it is to remain in the draft at all, it should be optional only.	Change "mandatory" to "optional".		2017/1/9 9:42
6820 John Coffey	225	1 28.2.2	217	37	E	Y	217.37 28.2.2	Grammatical error: "for and HE MU PPDU".	Change to "for an HE MU PPDU".		2017/1/9 9:42
6821 John Coffey	225	1 28.2.2	217	41	E	Y	217.41 28.2.2	Missing article (inconsistent usage): "For HE trigger-based PPDU". By itself this might be acceptable in a table, were it not for contrary examples in the same entry.	Change to "For an HE trigger-based PPDU".		2017/1/9 9:42
6822 John Coffey	225	1 28.2.2	218	38	E	Y	218.38 28.2.2	Missing article (inconsistent usage): "In HE SU PPDU, ...". By itself this might be acceptable in a table, were it not for contrary examples in the same entry.	Change to "In an HE SU PPDU, ..."		2017/1/9 9:42
6823 John Coffey	225	1 28.2.2	220	14	E	Y	220.14 28.2.2	Independent clauses linked by a comma without a coordinating conjunction.	Change comma to semicolon.		2017/1/9 9:42
6824 John Coffey	225	1 28.2.2	224	7	E	Y	224.07 28.2.2	Why "and"? These frames occur one at a time.	Change "and" to "or".		2017/1/9 9:42
6825 John Coffey	225	1 28.3.3.9.1	229	50	E	Y	229.50 28.3.3.9.1	Wrong article: the PPDU format, but a PPDU.	Change "the" to "an".		2017/1/9 9:42
6826 John Coffey	225	1 28.3.3.6	238	7	E	Y	238.07 28.3.3.6	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".		2017/1/9 9:42
6827 John Coffey	225	1 28.3.3.6	238	7	E	Y	238.07 28.3.3.6	"Only a non-AP HE STA can be a 20 MHz only STA": this is clumsily worded and confusing. Clearly 11a, 11g, and 11n STAs can (may?) be 20 MHz only STAs. It would be simpler and better to reword to exclude HE APs.	Change to "HE APs may not be 20 MHz only STAs".		2017/1/9 9:42
6828 John Coffey	225	1 28.3.3.6	238	10	E	Y	238.10 28.3.3.6	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".		2017/1/9 9:42
6829 John Coffey	225	1 28.3.3.6	238	11	E	Y	238.11 28.3.3.6	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".		2017/1/9 9:42

6830	John Coffey	225	1 28.3.3.6	238	13	E	Y	238.13 28.3.3.6	Inconsistent usage: here we have "non-AP HE STA", whereas almost everywhere else in the draft we have "HE non-AP STA".	Change to "HE non-AP STA".	2017/1/9 9:42
6831	John Coffey	225	1 28.3.3.8.3	239	32	E	Y	239.32 28.3.3.8.3	Inconsistent terminology: in "DL HE MU PPDU", the STA type is in the middle, whereas in practically every oher instance the type is at the beginning.	Change "DL HE MU" to "HE DL MU".	2017/1/9 9:42
6832	John Coffey	225	1 28.3.6.6	251	30	E	Y	251.30 28.3.6.6	Awkward usage: "For an X, Y, and Z". It would be more natural to write "For an X, Y, or Z", or alternatively "In X, Y, and Z PPDUs".	Change to either suggested format.	2017/1/9 9:42
6833	John Coffey	225	1 28.3.6.8	253	17	E	Y	253.17 28.3.6.8	Inconsistent (and awkward) usage: here we have "a HE trigger-based PPDU", whereas in virtually every other place in th draft, we have "an HE trigger-based PPDU".	Change to "an HE trigger-based PPDU".	2017/1/9 9:42
6834	John Coffey	225	1 28.3.6.10	253	51	E	Y	253.51 28.3.6.10	Awkward usage: "in an X, Y, and Z". It would be more natural to write "in X, Y, and Z PPDUs".	Change to "Construction of the Data field in HE SU PPDUs, HE extended range SU PPDUs, and HE trigger-based PPDUs".	2017/1/9 9:42
6835	John Coffey	225	1 28.3.6.10.1	253	57	E	Y	253.57 28.3.6.10.1	Awkward usage: "in an X, Y, and Z". It would be more natural to write "in X, Y, and Z PPDUs".	Change to "The construction of the Data field in HE SU PPDUs, HE extended range SU PPDUs, and HE trigger-based PPDUs".	2017/1/9 9:42
6836	John Coffey	225	1 28.3.6.10.2	254	39	E	Y	254.39 28.3.6.10.2	Awkward usage: "in an X, Y, and Z". It would be more natural to write "in X, Y, and Z PPDUs".	Change to "The construction of the Data field in HE SU PPDUs, HE extended range SU PPDUs, and HE trigger-based PPDUs".	2017/1/9 9:42
6837	John Coffey	225	1 28.3.7	256	22	T	Y	256.22 28.3.7	The draft adds two new optional 1024-QAM based MCSs (MCSs 10 and 11): options piled on top of options, as the 256-QAM based MCSs (MCSs 8 and 9) are also optional. The document that introduces them (15/1070r3, September 2015) is remarkably candid about the motivation. After wading through 8 pages listing 111 co-authors, we have ""average throughput enhancement of 4X" may not be so appealing to market even if it is very important technically". (!). But fear not, because "1024 QAM provides a good marketing point on 11ax". It also aims to "Keep superior to other standards in terms of modulation technology (LTE decided to use 256QAM)". These are deeply unworthy justifications for adding modes to the standard. We have been reminded repeatedly that the PAR and CSD act as a 'contract' between the Working Group and the IEEE-SA, and the original proposal, "by its	Delete the 1024-QAM modes and all references and supporting modes in the draft.	2017/1/9 9:42
6838	John Coffey	225	1 28.3.7	256	30	T	Y	256.30 28.3.7	In a severely bloated amendment, we should look for ways to simplify the text and to focus on the central goals of the project. One way is to remove minor modes that are only tangentially related to the goals of the project. One of these is DCM, yet another low-rate range-extension mode in an amendment that has nothing to do with range extension. There is not one word about range extension in the PAR or CSD, yet range extension modes clutter up the draft. To the extent that low-rate modes displace use of higher ratre modes on the medium, they actually work counter to the goals of the amendment. It may very well be that range extension would make a worthy and interesting project in itself, with a carefully worked out PAR and CSD. DCM is an optional, low-rate mode that can't even be used in conjunction with other range extension modes (STBC). It's a marginal special case and the draft would be better without it.	Delete DCM and all references to it in the draft.	2017/1/9 9:42

6839 John Coffey	225	1 28.3.7	256	31	E	Y	256.31 28.3.7	Awkward usage: "in an X, Y, and Z". It would be more natural to write "for Xs, Ys, and Zs".	Change to "in HE SU PPDUs, HE trigger-based PPDUs, and HE extended range SU PPDUs".	2017/1/9 9:42
6840 John Coffey	225	1 28.3.7	256	31	E	Y	256.31 28.3.7	Inconsistent ordering of alternatives: here three possibilities are listed in the order HE SU PPDU, HE trigger-based PPDU, HE extended range SU PPDU. Elsewhere the order is different: for example there are instances where the second and third elements in the list are switched. It would be better to adopt a consistent orderng.	Change to the order HE SU PPDU, HE extended range SU PPDU, HE trigger-based PPDU.	2017/1/9 9:42
6841 John Coffey	225	1 28.3.9	264	47	E	Y	264.47 28.3.9	Inconsistent terminology: in "DL HE MU PPDU", the STA type is in the middle, whereas in practically every oher instance the type is at the beginning.	Change "DL HE MU" to "HE DL MU".	2017/1/9 9:42
6842 John Coffey	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	Technical term used with incomplete or missing description: "SRP-based spatial reuse". The reference given is 27.9 but I don't find it there.	Either provide a definition for SRP-based spatial reuse or delete all mention of it from the draft.	2017/1/9 9:42
6843 John Coffey	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	Apparently there are two spatial reuse modes, OBSS_PD and SRP-based. ("Apparently", because both are underdefined.) It is widely understood that having multiple different modes to accomplish the same objective is the kiss of death for all of them: cf. especially the 802.11n experience with beamforming. Having multiple modes works against the principles of standardization, reduces the chances of any one mode succeeding, and by tying up scarce Task Group resources delays the entire technology.	Either merge all spatial reuse functions into a single, unified, "standardized" mode, or delete them all from the draft.	2017/1/9 9:42
6844 John Coffey	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	"Set to SR Disallowed to disallow SRP-based spatial reuse". Why restrict the disallowing only to SRP-based spatial reuse? The draft would be vastly improved if all spatial reuse can be disallowed, on a packet-by-packet basis. All types of spatial reuse, very much including OBSS_PD, have the potential to make matters worse at the victim transmitter, yet the current draft allows only the interferer to make the decision about whether to use one form of spatial reuse. (Incidentally, if we won't even insist on protection of our own transmissions, we have no standing whatsoever to object to LAA, LTE-U, WILDebeeste, and all the others from talking all over Wi-Fi. Honour code for one, honour code for all.) What is the downside and why is this straightforward step resisted? There may be a fear that devices "set and forget" the switchoff bit. But in fact vendors are intensely competitive about	Delete "SRP-based".	2017/1/9 9:42

6845 John Coffey	225	1 28.3.10.7.2	274	10	T	Y	274.10 28.3.10.7.2	"NOTE--This part needs further development." Well, yes! As an aside (though I think a relevant one) why does it need more development at this late stage? It must be connected with the complexity of the spatial reuse problem, which is on a vastly difreent scale to the regular modes we consider. Adding a new 1024-QAM MCS or another power-save mode mostly affects individual links and so any problems are largely contained. Not so with spatial reuse, where everything affects everything else. A faulty spatial reuse mode or implementation could have disastrous consequences for other devices and BSSs, including the legacy installed base. We would be far better off to give this problem the respect it deserves by creating a new Task Group within 802.11 to consider it carefully, properly, and comprehensively. It can't be shoehorned into 802.11ax at this late stage. That's an aside because a letter ballot comment resolution	Delete spatial reuse, of whatever variety, and all references to it in the draft.	2017/1/9 9:42
6846 John Coffey	225	1 28.3.10.7.2	278	9	E	Y	278.09 28.3.10.7.2	Contraction used: "doesn't". Please don't.	Change to "does not".	2017/1/9 9:42
6847 John Coffey	225	1 28.3.10.7.2	282	39	E	Y	282.39 28.3.10.7.2	Redundant text: "if SRP is below <-80 dBm".	Remove "<".	2017/1/9 9:42
6848 John Coffey	225	1 28.3.10.7.4	283	17	E	Y	283.17 28.3.10.7.4	Awkward usage: why "and"?	Change to "or".	2017/1/9 9:42
6849 John Coffey	225	1 28.3.10.7.4	283	30	E	Y	283.30 28.3.10.7.4	Awkward usage: why "and"?	Change to "or".	2017/1/9 9:42
6850 John Coffey	225	1 28.3.10.8.4	290	45	E	Y	290.45 28.3.10.8.4	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6851 John Coffey	225	1 28.3.10.8.4	290	51	E	Y	290.51 28.3.10.8.4	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6852 John Coffey	225	1 28.3.10.8.5	293	64	E	Y	293.64 28.3.10.8.5	Solecism: "an STA".	Change to "a STA".	2017/1/9 9:42
6853 John Coffey	225	1 28.3.10.8.5	296	22	E	Y	296.22 28.3.10.8.5	Solecism: "an STA".	Change to "a STA" or "an HE STA".	2017/1/9 9:42
6854 John Coffey	225	1 28.3.10.8.5	296	22	E	Y	296.22 28.3.10.8.5	Missing article: "in MU-MIMO allocation".	Change to "in an MU-MIMO allocation".	2017/1/9 9:42
6855 John Coffey	225	1 28.3.10.9	298	37	E	Y	298.37 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6856 John Coffey	225	1 28.3.10.9	298	42	E	Y	298.42 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6857 John Coffey	225	1 28.3.10.9	299	13	E	Y	299.13 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6858 John Coffey	225	1 28.3.10.9	299	1	E	Y	299.01 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6859 John Coffey	225	1 28.3.10.9	299	20	E	Y	299.20 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6860 John Coffey	225	1 28.3.10.9	299	26	E	Y	299.26 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6861 John Coffey	225	1 28.3.10.9	299	32	E	Y	299.32 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6862 John Coffey	225	1 28.3.10.9	299	37	E	Y	299.37 28.3.10.9	Missing word / awkward usage: "except HE trigger-based PPDU".	Add "for" after "except".	2017/1/9 9:42
6863 John Coffey	225	1 28.3.10.10	301	50	E	Y	301.50 28.3.10.10	Plural used where singular required: "more than one RUs".	Change "RUs" to "RU".	2017/1/9 9:42
6864 John Coffey	225	1 28.3.10.10	311	37	E	Y	311.37 28.3.10.10	Missing word: "in an X, Y, Z, W" requires link before final element.	Add "or" before "HE trigger-based PPDU".	2017/1/9 9:42
6865 John Coffey	225	1 28.3.12	339	41	E	Y	339.41 28.3.12	Independent clauses linked by a comma without a coordinating conjunction.	Change comma to semicolon.	2017/1/9 9:42
6866 John Coffey	225	1 28.3.14.1	340	52	E	Y	340.52 28.3.14.1	Confusing article: "the" synchronization related issues". Which ones? How does the inclusion of "the" change the meaning of this sentence?	Remove "the".	2017/1/9 9:42
6867 John Coffey	225	1 28.3.14,1	340	52	E	Y	340.52 28.3.14,1	Vague wording: synchronization "related" issues. Are there synchronization "related" issues that would not be understood by the more straightforward "synchronization issues"? If so, please specify them. Otherwise please omit vague terms.	Remove "related".	2017/1/9 9:42

6868 John Coffey	225	1 28.3.14.1	340	56	E	Y	340.56 28.3.14.1	Awkward, ungrammatical, and slightly confusing construction: "participating STAs HE trigger-based PPDU transmission." Here "STAs" should be "STAs"' and "transmission" should be transmissions". But it would be better to recast the sentence as in the proposed resolution.	Change to "the HE trigger-based PPDU transmissions of participating STAs".	2017/1/9 9:42
6869 John Coffey	225	1 28.3.14.1	340	57	T	Y	340.57 28.3.14.1	"An AP can schedule" ... should this really be "can", or is "may" meant?	If the intended meaning is that the AP is permitted to take the action described, then change to "may".	2017/1/9 9:42
6870 John Coffey	225	1 28.3.14.1	340	58	T	Y	340.58 28.3.14.1	Imprecise specification of mandatory requirement: "A STA ... shall support power correction described in 28.3.14.2". As worded, this would be satisfied by a STA that satisfied some (any) of the requirements in 28.3.14.2, even if it did not support all of them. The draft should make it clear exactly what is required.	Add "as" before "described".	2017/1/9 9:42
6871 John Coffey	225	1 28.3.14.1	340	59	T	Y	340.59 28.3.14.1	Imprecise specification of mandatory requirement: "... and shall meet pre-correction accuracy requirements described in 28.3.14.3". As worded, this would be satisfied by a STA that satisfied some (any) of the pre-correction accuracy requirements in 28.3.14.3, even if it did not support all of them. The draft should make it clear exactly what is required.	Add "the" before "pre-correction accuracy requirements".	2017/1/9 9:42
6872 John Coffey	225	1 28.3.14.2	341	18	E	Y	341.18 28.3.14.2	Awkward phrasing: "Target_RSSI is dBm value ..."	Change to "Target_RSSI is the value, in dBm, ...".	2017/1/9 9:42
6873 John Coffey	225	1 28.3.14.2	341	44	E	Y	341.44 28.3.14.2	Missing article (inconsistent usage): "For HE trigger-based PPDU". In most other places in the draft, we have "an HE trigger-based PPDU".	Change to "For an HT trigger-based PPDU".	2017/1/9 9:42
6874 John Coffey	225	1 28.3.14.2	341	58	E	Y	341.58 28.3.14.2	Missing article (inconsistent usage): "of HE trigger-based PPDU". In most other places in the draft, we have "an HE trigger-based PPDU".	Change to "of an HT trigger-based PPDU".	2017/1/9 9:42
6875 John Coffey	225	1 28.3.14.2	341	59	E	Y	341.59 28.3.14.2	Missing article (inconsistent usage): "of HE trigger-based PPDU". In most other places in the draft, we have "an HE trigger-based PPDU".	Change to "of an HT trigger-based PPDU".	2017/1/9 9:42
6876 John Coffey	225	1 28.3.14.2	341	61	E	Y	341.61 28.3.14.2	Awkward phrasing: "HR_STA is dBm value ..."	Change to "HR_STA is the value, in dBm, ...".	2017/1/9 9:42
6877 John Coffey	225	1 28.3.14.2	341	61	E	Y	341.61 28.3.14.2	Missing article (inconsistent usage): "in HE trigger-based PPDU". In most other places in the draft, we have "an HE trigger-based PPDU".	Change to "in an HE trigger-based PPDU".	2017/1/9 9:42
6878 John Coffey	225	1 28.3.18.4.4	356	6	E	Y	356.06 28.3.18.4.4	Missing article (inconsistent usage): "in HE trigger-based PPDU". By itself this might be acceptable in a table, were it not for contrary examples in the same table.	Change to "in an HE trigger-based PPDU".	2017/1/9 9:42
6879 John Coffey	225	1 28.3.18.4.4	359	17	E	Y	359.17 28.3.18.4.4	Inconsistent form: here we have "HE trigger based PPDU", whereas almost everywhere else in the draft we have "HE trigger-based PPDU". It would be better to keep the term consistent.	Change to "HE trigger-based PPDU".	2017/1/9 9:42
6880 John Coffey	225	1 28.3.20	368	48	T	Y	368.48 28.3.20	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6881 John Coffey	225	1 28.3.20	368	49	T	Y	368.49 28.3.20	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6882 John Coffey	225	1 28.3.20	369	6	E	Y	369.06 28.3.20	Inconsistent form: here we have "HE-trigger based PPDU", whereas almost everywhere else in the draft we have "HE trigger-based PPDU". It would be better to keep the term consistent.	Change to "HE trigger-based PPDU".	2017/1/9 9:42
6883 John Coffey	225	1 28.3.20	369	39	T	Y	369.39 28.3.20	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6884 John Coffey	225	1 28.3.20	369	40	T	Y	369.40 28.3.20	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6885 John Coffey	225	1 28.3.20	369	40	E	Y	369.40 28.3.20	Contraction used: "doesn't". Please don't.	Change to "does not".	2017/1/9 9:42
6886 John Coffey	225	1 28.3.20	369	65	T	Y	369.65 28.3.20	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42

6887	John Coffey	225	1 28.3.20	369	65	T	Y	369.65 28.3.20	(Second instance on same line:) Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6888	John Coffey	225	1 28.3.20	369	65	E	Y	369.65 28.3.20	Contraction used: "doesn\'t". Please don't.	Change to "does not".	2017/1/9 9:42
6889	John Coffey	225	1 28.3.20	370	23	T	Y	370.23 28.3.20	Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6890	John Coffey	225	1 28.3.20	370	23	T	Y	370.23 28.3.20	(Second instance on same line:) Unnecessary variant used for defined term: "BSS color". The term is "BSS Color".	Change to "BSS Color".	2017/1/9 9:42
6891	John Coffey	225	1 28.3.20	370	23	T	Y	370.23 28.3.20	Contraction used: "doesn\'t". Please don't.	Change to "does not".	2017/1/9 9:42
6892	John Coffey	225	1 C.3	420	38	E	Y	420.38 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6893	John Coffey	225	1 C.3	420	52	E	Y	420.52 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6894	John Coffey	225	1 C.3	421	15	E	Y	421.15 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6895	John Coffey	225	1 C.3	421	29	E	Y	421.29 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6896	John Coffey	225	1 C.3	421	56	E	Y	421.56 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6897	John Coffey	225	1 C.3	422	6	E	Y	422.06 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6898	John Coffey	225	1 C.3	422	20	E	Y	422.20 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6899	John Coffey	225	1 C.3	423	15	E	Y	423.15 C.3	Superfluous comma: ", otherwise".	Delete comma.	2017/1/9 9:42
6900	John Coffey	225	1 1	1	1	G	Y	1.01 1	The purported goal of the ax project was to achieve a 4x improvement in system throughput in dense environments. It seems the current draft falls far short of this goal. Either there needs to be more persuasive justification, or the stated goals should be changed. N.B.: it is not remotely persuasive to cite numbers derived from extended range modes in such calculations. A mode that provides data connectivity where none would have existed under the baseline standard would provide an infinite "improvement" if we arllowed x/0 calculations, but this would be an abuse of language. No reasonable reader would interpret such a range extension as an "infinite" throughput improvement. If it had been considered important to extend range, it would have been very easy to say so. What is needed, therefore, is a showing that under a reasonable prior deployment we get system throughput x1	Provide detailed justification for the 4x improvement goal in scenarios where the 'before' deployment is credible: at a minimum, each pair of connected devices should be capable of supporting a reasonable throughput in the absence or silence of all others. In particular, do not use range extension modes in this calculation. If the current draft cannot credibly support anywhere near to a 4x improvement, as seems all too likely to be the case, then revise the PAR and CSD.	2017/1/9 9:42
6901	John Coffey	225	1 1	1	1	T	Y	1.01 1	The IEEE 802 Executive Committee has determined that the proceedings of Task Group ax were impacted by dominance by the 'DensiFi' group of companies. Since Draft 1.0 was largely developed and was completed and approved, while DensiFi was still in existence, the integrity of the draft as a whole must be considered severely compromised by the adjudged dominant behavior. While changes may now be made, the burden is on those who want to propose changes to get a 75% majority to do so. It would be better to require 75% to approve the various constituent elements of draft 1.0 affirmatively. This can be accomplished relatively easily by deleting the entire draft, and by considering motions to reapprove it feature by or section by section This might not take long if organized efficiently, and it would greatly add to the prospects for successful deployment of the technology by demonstrating	Delete the entire draft. (Reconsider the constituent elements feature by feature or section by section.)	2017/1/9 9:42
6902	Jonathan Segev	225	1 3	137	60	G	N	137.60 3	Table 10-19a TWT operation uses in alternating "first STA" "second STA" however 10.43.1 uses the terminology TWT Requesting STA and TWT Responding STA.	Replace first and second STA with TWT Requesting and TWT Responding STAs respectively.	2017/1/9 9:42

6903	Joseph Levy	225	1		1	E	N			ToC has formatting error	Clean up the formatting, line overflow, location of Page number	2017/1/9 9:42
6904	Joseph Levy	225	1		18	E	N			ToC has formatting error	Clean up the formatting, line overflow, location of Page number	2017/1/9 9:42
6905	Joseph Levy	225	1		11	E	N			ToC has formatting error	Clean up the formatting, line overflow, location of Page number	2017/1/9 9:42
6906	Joseph Levy	225	1		36	E	N			ToC has formatting error	Clean up the formatting, line overflow, location of Page number	2017/1/9 9:42
6907	Joseph Levy	225	1		1	E	N			Table of figures has formatting error	Clean up the formatting, line overflow, location of Page number	2017/1/9 9:42
6908	Joseph Levy	225	1		1	E	N		6907	Table of figures has formatting error	Clean up the formatting, line overflow, location of Page number	2017/1/9 9:42
6909	Joseph Levy	225	1		3	E	N			Table of figures has formatting error	Clean up the formatting, line overflow, location of Page number	2017/1/9 9:42
6910	Joseph Levy	225	1		29	E	N			Table of tables has formatting error	Clean up the formatting, make this entry a single line.	2017/1/9 9:42
6911	Joseph Levy	225	1 3.2	4	53	T	Y	4.53 3.2		The definition is not complete as is should be defined as a PPDU	Replace the text "One of the following" with "One of the following PPDUs:	2017/1/9 9:42
6912	Joseph Levy	225	1 3.2	5	29	T	Y	5.29 3.2		The definition is not complete as is should be defined as a PPDU	Replace the text "One of the following" with "One of the following PPDUs:	2017/1/9 9:42
6913	Joseph Levy	225	1 3.2	6	8	T	Y	6.08 3.2		The definition is not complete as is should be defined as a PPDU	Replace the text "One of the following" with "One of the following PPDUs:	2017/1/9 9:42
6914	Joseph Levy	225	1 3.2	6	65	T	Y	6.65 3.2		Define what a High Efficacy (HE) STA is, as this term is used throughout the amendment	Provide a definition	2017/1/9 9:42
6915	Joseph Levy	225	1 3.2	6	65	T	Y	6.65 3.2		Define what a High Efficacy (HE) non-AP STA is, as this term is used throughout the amendment	Provide a definition	2017/1/9 9:42
6916	Joseph Levy	225	1 3.2	6	65	T	Y	6.65 3.2		Define what a High Efficacy (HE) AP is, as this term is used throughout the amendment	Provide a definition	2017/1/9 9:42
6917	Joseph Levy	225	1 3.2	6	50	T	Y	6.50 3.2		The definition of high efficient dual beacon is a bit odd as it is not really a beacon but an operating mode that allow for the transmission of both a non-HE formatted beacon and an HE formatted beacon. Hence the definition should be for the mode.	rewrite the definition of the HE Dual Beacon to be for the HE Dual Beacon Mode.	2017/1/9 9:42
6918	Joseph Levy	225	1 3.2	6	50	T	Y	6.50 3.2		The term: high efficient dual beacon, HE dual beacon, or high efficient (HE) dual beacon does not appear in this amendment anywhere accept the in definitions clause. Why is this being defined, if it is not used?	Either add the term to some clauses in the amendment or delete the definition.	2017/1/9 9:42
6919	Joseph Levy	225	1 3.2	6	60	T	Y	6.60 3.2		Consider renaming the TWT scheduling STA to be a TWT scheduling AP or TWT scheduling HE AP. The text seems to indicate that all TWT scheduling STAs are HE APs - which is a very confusing statement. If TWT scheduling is only a function of a HE AP, then it should be clear that it is an AP and not just a STA.	Rename the "target wake time (TWT) scheduling STA" to be the "target wake time (TWT) scheduling AP. And correct the definition so that it is consistent.	2017/1/9 9:42
6920	Joseph Levy	225	1 3.4	6	6	T	Y	6.06 3.4		The use of DL for Downlink was used in the 802.11ah throughout the document, but was not included in the acronym list, nor is the concept of Downlink defined anywhere. So please confirm that the way DL is used in 802.11ah is constant with the way it is used in this amendment and the definition of downlink provided in 802.11-REVmc. If it is constant with the definition in 802.11-REVmc I suggest that the definition should contain the acronym as is usually done.	Update the base line defection of downlink to contain: downlink (DL).	2017/1/9 9:42
6921	Joseph Levy	225	1 3.2	6	55	T	Y	6.55 3.2		OFDMA - currently not defined in this amendment. It is not defined in base line amendment 802.11mcD8.0. It would be best to define OFDMA prior to defining non-OFDMA.	Define OFDMA	2017/1/9 9:42

6922	Joseph Levy	225	1 3.4	7	22	G	N	7.22 3.4	The base line specification uses HE to mean: Homogenous extended in HESSID. This is confusing, given the introduction of HE as High Efficacy.	Change the Abbreviation of HESSID to be H-ESSID Note this change also be made in all places HESSID is currently used in the base line specifications. There are 42 uses of HESSID in (mc) and 13 locations in ai which need to be changed.	2017/1/9 9:42
6923	Joseph Levy	225	1 3.2	6	55	T	Y	6.55 3.2	This amendment seems to introduce the 20 MHz only HE STA in 28.3.3.6, However the term is used in several other preceding subclause, therefore there should be a definition of the term.	Define 20 MHz only HE STA: e.g. "A 20 MHz only HE STA: is a HE STA that operates with 20 MHz channel width only, in frequency bands between 1 GHz and 6 GHz. A 20 MHz only HE STA operates in the primary 20 MHz channel as a mandatory mode."	2017/1/9 9:42
6924	Joseph Levy	225	1 4.3.14a	9	7	E	N	9.07 4.3.14a	Why would you insert the HE STA clause after 4.3.12? Shouldn't it be inserted 4.2.14 VHT STA?	Insert after subclause 4.3.14	2017/1/9 9:42
6925	Joseph Levy	225	1 4.3.141	9	10	G	Y	9.10 4.3.141	The 802.11ax amendment provides new capabilities/features that warrant a more explanative introduction then simply stating a list of the "new" phy/mac features and if the features are mandatory or optional. Therefore adding descriptive text as to what the new capabilities and features of a HE STA are and what the purpose and benefits of these capabilities and features are is warranted.	Provide a useful and clear introduction to the new capabilities provided by 802.11ax features, including: 1) the benefits of the of capability (e.g. provides for MU access to lower overhead and reduce congestion in 802.11 BSSs), 2) the features of 802.11ax that will enable this capability (e.g. OFDMA or MU-MIMO), and 3) for capabilities that have multiple features supporting them what the expectation/use for the features that support the capability.	2017/1/9 9:42
6926	Joseph Levy	225	1 4.3.14.a	9	32	G	Y	9.32 4.3.14.a	The 802.11ax amendment provides new capabilities/features that warrant a more explanative introduction then simply stating a list of the "new" phy/mac features and if the features are mandatory or optional. I don't believe that clause 4 is the place for stating if a feature is optional or mandatory.	Provide a introduction to the new PHY and MAC features without stating if they are Mandatory or Optional.	2017/1/9 9:42
6927	Joseph Levy	225	1 4.3.14a	9	18	T	Y	9.18 4.3.14a	Aren't all HE non-AP STAs VHT non-AP STAs? Why must a HE non-AP STA support all VHT operating bands be and VHT non-AP STA? Wouldn't an HE non-AP STA that only supports 20, 40 and 80 MHz bandwidth also be a VHT non-AP STA? Please correct or clarify the meaning of this phrase.	Change the text to read: "An HE non-AP STA is also a VHT non-AP STA"	2017/1/9 9:42
6928	Joseph Levy	225	1 4.3.14a	9	21	T	Y	9.21 4.3.14a	The phrase: "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" does not seem to make sense as it seems to require that an HE non-AP STA is only allowed to support 20 MHz channel bandwidth, while the phrase directly above states the multiple bandwidths are allowed.	Delegate the phrase: "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" or clarify what is intended by the phrase is to support	2017/1/9 9:42
6929	Joseph Levy	225	1 4.3.14a	9	21	T	Y	9.21 4.3.14a	If the intent of the phrase: "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" is to say that a mode of operation of all HE non-AP STAs is to be able to operate as a 20 MHz only HE STA, then the phase should state that,	Replace the phrase with: All HE non-AP STAs will support operation as 20 MHz only HE STAs.	2017/1/9 9:42
6930	Joseph Levy	225	1 4.3.14a	9	26	T	Y	9.26 4.3.14a	If the intent of the phrase: "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" is to say that a mode of operation of all HE non-AP STAs is to be able to operate as a 20 MHz only HE STA, then the phase should state that,	Replace the phrase with: All HE non-AP STAs will support operation as 20 MHz only HE STAs.	2017/1/9 9:42

6931	Joseph Levy	225	1 4.3.14a	9	33	G	Y	9.33 4.3.14a	While I understand that the introduction of OFDMA is a key PHY feature for HE STAs, I don't understand why stating the mandatory support of the various RUs is necessary in the General description.	Delete the Mandatory RUs supported from this subclause.	2017/1/9 9:42
6932	Joseph Levy	225	1 4.3.14a	9	43	G	Y	9.43 4.3.14a	Why is only DL MU-MIMO support for the mandatory case the only PHY feature listed. Why aren't the other non-mandatory DL MU-MIMO features listed?	Add Option Support for DL MU-MIMO modes that are not mandatory	2017/1/9 9:42
6933	Joseph Levy	225	1 4.3.14a	9	43	G	Y	9.43 4.3.14a	Option support fir 1024-QAM seems to be an adequate description of the feature, the RU restrictions do not seem necessary as a general description.	Delete the RU limits from the PHY feature	2017/1/9 9:42
6934	Joseph Levy	225	1 4.3.14a	9	48	G	N	9.48 4.3.14a	the description of the new MAC features do not clearly state why these features were introduce, the text simply implies it. It would be clearer to state why these features are being introduced and then provide some guidance on where in the specification the details of these features can be found.	Insert a paragraph introducing the need/purpose of the new MAC features.	2017/1/9 9:42
6935	Joseph Levy	225	1 8.3.5.2.2	15	21	T	Y	15.21 8.3.5.2.2	Why does the STA_INDEX need to be added? Since the STA_INDEX and the USER_INDEX seem to be basically provide the same function and both operate using the u value to provide an index for MU users. It would seem to be simpler to extend the USER_INDEX to provide the necessary function and behavior of the STA_INDEX for HE MU PPDUs. Also note that since the User_INDEX parameter is only present for a VHT MU PPDU, it would seem that a VHT STA would be very confused by presence of a STA_INDEX as it would occupy the same location in the PHY-DAT.request as the USER_INDEX would.	remove STA_INDEX and repurpose the USER_INDEX to provide the index function for HE MU PPDUs. Also rewrite the descriptive paragraphs for USER_INDEX and STA_INDEX so that it is clear what the behavior is of the USER_INDEX when used in a VHT MU PPDU and a HE MU PPDU.	2017/1/9 9:42
6936	Joseph Levy	225	1 8.3.5.3.2	15	48	T	Y	15.48 8.3.5.3.2	Why does the STA_INDEX need to be added? Since the STA_INDEX and the USER_INDEX seem to be basically provide the same function and both operate using the u value to provide an index for MU users. It would seem to be simpler to extend the USER_INDEX to provide the necessary function for HE trigger-based PPDUs.	Replace STA_INDEX with USER_INDEX.	2017/1/9 9:42
6937	Joseph Levy	225	1 8.3.5.3.2	15	56	T	Y	15.56 8.3.5.3.2	Reuse the USER_INDEX to provide the function of the STA_INDEX	Replace the sentence with: The USER_INDEX parameter is present for an HE trigger-based PPDU and indicates the index of the user in the RXVECTOR to which the accompanying DATA octet applies; otherwise, this parameter is not present.	2017/1/9 9:42
6938	Joseph Levy	225	1 8.3.5.12	16	20	G	N	16.20 8.3.5.12	The differences between the VHT and HE channel-list element behavior seems to be very minimal should this table call out different rules for VHT and HE? It seem very redundnat specification wise to duplicate large portions of the VHT PHY clause in the HE PHY clause. Wouldn't it be more efficient to make the small additions in the HE PHY clause and reference the VHT PHY clause.	Consider removing the duplicate specifications in the VHT and HE PHY clauses.	2017/1/9 9:42

6939 Joseph Levy	225	1 8.3.5.12.3	17	13	T	Y	17.13 8.3.5.12.3	In the base specification there is a Note that is part of the first paragraph which states: "NOTE--For the VHT PHY, the timing information is omitted here and is defined in 21.3.18.5 (CCA sensitivity)." If the intent was to remove the note it should be stated clearly that the note was removed. If the note is remaining, then it should be updated to include the timing information location for the HE PHY.	Either clarify that the Note is being removed or update the Note to include the HE PHY.		2017/1/9 9:42
6940 Joseph Levy	225	1 10.2.4.2	113	15	T	Y	113.15 10.2.4.2	Why is this in addition, this should just state that The HE AP, which is a QoS AP, may ...	Remove: "In addition, an" and replace it with "The". After HE AP insert: ", which is a QoS AP."		2017/1/9 9:42
6941 Joseph Levy	225	1			G	Y		In the definition of HE AP include that all HE APs are QoS APs.	Include that all HE APs are QoS APs, Where appropriate.		2017/1/9 9:42
6942 Joseph Levy	225	1 5	10		G	N	10.00 5	I find it hard to believe that given the significant MAC features added in this amendment that there are no changes to clause 5. Are there additions to the Securily services with the additional of A-PDU fragmentation? Are there additions needed to the MSDU ordering?	Insert required changes to clause 5		2017/1/9 9:42
6943 Joseph Levy	225	1 6.3.4.2.2	11	60	E	N	11.60 6.3.4.2.2	Inserting "HE Capabilities" between "AdvertisementProtocolInfo" and "VendorSpcificInfo" while correct for the mcV8.0 is not correct if one considers the other amendments. Therefore remove "AdvertixementProtocalInfo" from the list, so that the only instructions is to insert "HE Capabilities" before "vendorSpecificInfo".	Delete: "AdvertisementProtocolInfo,"		2017/1/9 9:42
6944 Joseph Levy	225	1 6.3.6.4.2	12	33	E	N	12.33 6.3.6.4.2	The entries in this table follow the order of the primitive parameter list above, therefore the new entry in the table should be located in the proper position based on the list. The instructions to the editor should say so.	Change the instruction to the editor to read: "Insert the following entry into the unnumbered table in this subclause, so that it is located proceeding the VendorSpecificInfo primitive:"		2017/1/9 9:42
6945 Joseph Levy	225	1 6.3.8.4.2	13	1	E	N	13.01 6.3.8.4.2	The entries in this table follow the order of the primitive parameter list above, therefore the new entry in the table should be located in the proper position based on the list. The instructions to the editor should say so.	Change the instruction to the editor to read: "Insert the following entry into the unnumbered table in this subclause, so that it is located proceeding the VendorSpecificInfo primitive:"		2017/1/9 9:42
6946 Joseph Levy	225	1 6.3.11.2.2	13	35	E	N	13.35 6.3.11.2.2	The entries in this table follow the order of the primitive parameter list above, therefore the new entry in the table should be located in the proper position based on the list. The instructions to the editor should say so.	Change the instruction to the editor to read: "Insert the following entry into the unnumbered table in this subclause, so that it is located proceeding the VendorSpecificInfo primitive:"		2017/1/9 9:42
6947 Joseph Levy	225	1 6.3.27.4	13	59	E	N	13.59 6.3.27.4	Header is doubled numbered	Remove the redundant clause number		2017/1/9 9:42
6948 Joseph Levy	225	1 6.3.27.4	13	61	E	N	13.61 6.3.27.4	Header is doubled numbered	Remove the redundant clause number		2017/1/9 9:42
6949 Joseph Levy	225	1 6.3.27.4	14	7	E	N	14.07 6.3.27.4	The entries in this table follow the order of the primitive parameter list above, therefore the new entry in the table should be located in the proper position based on the list. The instructions to the editor should say so.	Change the instruction to the editor to read: "Insert the following entry into the unnumbered table in this subclause, so that it is located proceeding the VendorSpecificInfo primitive:"		2017/1/9 9:42
6950 Joseph Levy	225	1 9.3.1.9.1	34	23	T	Y	34.23 9.3.1.9.1	Changes made to the 3rd paragraph provide changes to the baseline text that while appearing to be a change do not change requirements. The baseline text should be modified in a minimal way.	Replace the first sentence with: "The RA field of the BlockAck frame that is not a Multi-STA BlockAck variant is the address of the recipient STA that requested the Block Ack.		2017/1/9 9:42

6951	Joseph Levy	225	1 9.3.1.9.1	34	23	T	Y	34.23 9.3.1.9.1	This is the frame format clause, therefore the use of the fields in the frame should not be described in this clause. The detailed use of a field in a MAC frame format should be described in the MAC clause. Therefore, remove or move to the MAC subclause the detailed requirements for the TA field in an HE-AP.	Remove or move the following text: "An HE AP that transmits a Multi-STA BlockAck frame with different values of the AID subfield in Per STA Info subfields sets the RA field to the broadcast address. An HE AP that transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields sets the RA field to the address of the recipient STA that requested the Block Ack or to the broadcast address. An HE non-AP STA transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields and sets the RA field to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged."	2017/1/9 9:42
6952	Joseph Levy	225	1 9.4.2.46	68	28	E	N	68.28 9.4.2.46	For the Multiple BSSID element shouldn't there be a restriction on including the HE Capabilities and the HE Operations elements in the Nontransmitted BSSID Profile subelement, as there is for the HT and VHT elements?	Add the restriction to including the HE Capabilities and the HE Operations elements in the Nontransmitted BSSID Profile subelement as was done for both the HE and VHT elements in 9.4.2.46.	2017/1/9 9:42
6953	Joseph Levy	225	1 10.43.1	139	57	E	N	139.57 10.43.1	The addition of command interpretations for the case where Wake TBTT Negotiation subfield=0 and Broadcast subfield=1 is not modified text as shown but is all new text. Please correct draft so this shows a new added text.	Mark the text as new text from line 57 on page 139 thru line 21 on page 140.	2017/1/9 9:42
6954	Joseph Levy	225	1 27.7.3.1	182	28	T	Y	182.28 27.7.3.1	Saying that: A TWT scheduling STA is an HE AP, is very confusing. An AP is an entity that contains one STA and provides access to the DS via the wireless medium for associated STAs. An AP comprises a STA and a distribution DSAF. So how can a STA be an HE AP.	Rewrite this section and all related sections containing the TWT scheduling STA so that it is clear that this type of STA can only exist in an HE AP or rename the TWT scheduling STA to be a TWT scheduling HE AP or a TWT scheduling AP.	2017/1/9 9:42
6955	Joseph Levy	225	1 9.3.3.1	52	13	E	N	52.13 9.3.3.1	The Beacon frame format is 9.3.3.3 in REVmcD8.0 (and in 802.11-2016) not 9.3.3.1 as shown	Correct the subclause number to 9.3.3.1	2017/1/9 9:42
6956	Joseph Levy	225	1 9.3.3.5	52	47	E	N	52.47 9.3.3.5	The subclause header is incorrect 9.3.3.5 is not Association Request frame format it is Disassociation frame format. Hence the subclause header is numbered wrong,	Correct the subclause number to 9.3.3.6	2017/1/9 9:42
6957	Joseph Levy	225	1 9.3.3.6	53	1	E	N	53.01 9.3.3.6	The subclause header is incorrect 9.3.3.6 is not the Association Response frame format it is Association Request frame format. Hence the subclause header is numbered wrong,	Correct the subclause number to 9.3.3.7	2017/1/9 9:42
6958	Joseph Levy	225	1 9.3.3.7	53	40	E	N	53.40 9.3.3.7	The subclause header is incorrect 9.3.3.7 is not the Reassociation Response frame format it is Association Response frame format. Hence the subclause header is numbered wrong,	Correct the subclause number to 9.3.3.8	2017/1/9 9:42
6959	Joseph Levy	225	1 9.3.3.78	53	61	E	N	53.61 9.3.3.78	The subclause header is incorrect 9.3.3.8 is not the Reassociation Response frame format it is Reassociation Request frame format. Hence the subclause header is numbered wrong,	Correct the subclause number to 9.3.3.9	2017/1/9 9:42

6960	Joseph Levy	225	1 9.4.1.62	56	1	T	Y	56.01 9.4.1.62	Should there be edits to the Operating Mode field Table 9-74 and 9-75 in 9.4.1.53. Don't the Channel Width, 160/80+80 BW, Rx NSS, and RX NSS type descriptions need to be provided for the HE STA reports? Don't the HE Capabilities of STA transmitting the Operating Mode Field for the Supported Channel Width Set and Extended NSS BW Support need to be defined for the Operating Mode field?	Add the necessary descriptions for HE Capabilities and Operating Modes.		2017/1/9 9:42
6961	Joseph Levy	225	1 10.5	122	32	T	Y	122.32 10.5	Static fragmentation is a new term introduced in this amendment. Hence the use of to define the "two" types on fragmentation now in the specification effectively breaks the existing specification, unless all mentions in the baseline specification of "fragmentation" are corrected to be "static fragmentation"	Delete the insertion "With static fragmentation"		2017/1/9 9:42
6962	Joseph Levy	225	1 10.5	122	35	T	Y	122.35 10.5	Static fragmentation is a new term introduced in this amendment. Hence the use of to define the "two" types on fragmentation now in the specification effectively breaks the existing specification, unless all mentions in the baseline specification of "fragmentation" are corrected to be "static fragmentation"	Delete the insertion "static"		2017/1/9 9:42
6963	Joseph Levy	225	1 10.5	122	39	T	Y	122.39 10.5	Delete the last sentence "Unless the conditions described in 27.3.2 (Support and requirements for dynamic fragmentation) are met, static fragmentation is used." and add a paragraph defining the new feature of dynamic fragmentation.	Delete: "Unless the conditions described in 27.3.2 (Support and requirements for dynamic fragmentation) are met, static fragmentation is used." Insert a new paragraph to describe the new feature. e.g. "In addition to supporting fragmentation HE STA may also support dynamic fragmentation as described in 27.3.2 ....."		2017/1/9 9:42
6964	Joseph Levy	225	1 10.5	122	46	T	Y	122.46 10.5	Do not change this paragraph as changing it breaks the specification for all non-HE STAs. Instead add an additional paragraph providing the fragmentation limitation for HE STAs.	Remove all changes to this paragraph. If necessary insert a new paragraph that provides the length limitations and behavior of fragmentation for HE STAs.		2017/1/9 9:42
6965	Joseph Levy	225	1 10.1	127	64	T	Y	127.64 10.1	Why is it a requirement that an HE STA not send a Control Wrapper frame to another ED STA? Since most HE STAs will also be HT and VHT STAs and can process a Control Wrapper frame, why the restriction?	Remove this requirement: "An HE STA shall not send a Control Wrapper frame to another HE STA."		2017/1/9 9:42
6966	Joseph Levy	225	1 10.12	128	6	T	Y	128.06 10.12	The ability to indicate support for reception of fragmented A-MSDUs in a feature introduced in this amendment. Hence placing the requirement in the general A-MSDU operation section as if it meaningful to all STAs breaks the specification. In addition the concept of building up an A-MSDU only to then break it into fragments in several MPDUs does not make sense to me. What is the benefit?	Delete the changes to this paragraph. If there are benefits of fracturing an A-MSDU then add a separate paragraph stating that it is possible for an HE-STA to fragment an A-MSDU.		2017/1/9 9:42
6967	Joseph Levy	225	1 10.13.1	128	21	T	Y	128.21 10.13.1	Why complicate the phasing of sentence, leave it in its simple form. The concept of changing base line text to include the HE corner case where a A-MPDU contains multiple TID fields seems to be unnecessary, wouldn't it be easier to simply add a sentence or paragraph to deal with then exception for the HE case? This would yield a different resolution to the one proposed.	Change the sentence to read: "When an A-MPDU contains multiple QoS Control fields, bit 4 of these QoS Control fields shall be identical and bits 8-15 of these QoS Control fields shall be identical for MPDUs with the same the TID subfield value."		2017/1/9 9:42

6968	Joseph Levy	225	1 10.13.2	128	36	T	Y	128.36	10.13.2	The inserted sentence makes no sense as it is written. The requirement should be based on the HE Capabilities element, which requires: "If the HE STA does not include VHT Capabilities element, the Maximum A-MPDU Length Exponent subfield in HE Capabilities element combined with the Maximum A-MPDU Length Exponent subfield in HT Capabilities element indicate the maximum length of A-MPDU that the STA can Receive where EOF padding is not included in this limit." Therefore correct the requirement. Since the requirement only relates to the HE STA, I think it needs to say so.	Replace the inserted sentence: "A STA indicates in the Maximum A-MPDU Length Exponent feld in its HE Capabilities element the maximum length of the AMPDU pre-EOF padding that it can receive in an HE PPDU." With: "For an HE STA the maximum A-MPDU length the STA can receive pre-EOF padding is indicated in the VHT capabilities element, or if the VHT capabilities element is not included then the maximum A-MPDU length the STA can receive pre-EOF padding is indicated by combining the Maximum A-MPDU Length Exponent subfield in HE Capabilities element combined with the Maximum A-MPDU Length Exponent subfield in HT Capabilities element."		2017/1/9 9:42
6969	Joseph Levy	225	1 10.13.2	128	41	T	Y	128.41	10.13.2	Table 9-249 (Subfields of the VHT Capabilities Information field) may also apply to HE PPDUs	Add: "... and may apply to HE PPDUs"		2017/1/9 9:42
6970	Joseph Levy	225	1 10.13.2	128	39	T	Y	128.39	10.13.2	Table 9-163 (Subfields of the A-MPDU Parameters field) may also apply to HE PPDUs	Add: "... and may apply to HE PPDUs"		2017/1/9 9:42
6971	Joseph Levy	225	1 10.13.3	128	40	T	Y	128.40	10.13.3	Table 9-229 (HE Ca[abilities element) may also apply to HE PPDUs	Add: "... and may apply to HE PPDUs"		2017/1/9 9:42
6972	Joseph Levy	225	1 10.13.3	128	58	T	Y	128.58	10.13.3	The length of an A-MPDU pre-EOF padding that an HE STA shall be capable of receiving is indicated by the Maximum A-MPDU Length Exponent subfield in the VHT capabilities element or by combining the information in the Maximum A-MPDU Length Exponent subfields in the HE and HT capabilities elements. Not as stated by the HE capabilities element alone	Correct the requirement so that the capabilities of the HE STA is correctly described, as noted in the comment.		2017/1/9 9:42
6973	Joseph Levy	225	1 10.13.3	129	6	T	Y	129.06	10.13.3	The length of an A-MPDU pre-EOF padding that an HE STA shall be capable of receiving is indicated by the Maximum A-MPDU Length Exponent subfield in the VHT capabilities element or by combining the information in the Maximum A-MPDU Length Exponent subfields in the HE and HT capabilities elements. Not as stated by the HE capabilities element alone	Correct the requirement so that the capabilities of the HE STA is correctly described, as noted in the comment.		2017/1/9 9:42
6974	Joseph Levy	225	1 10.28.3	136	31	T	Y	136.31	10.28.3	Why is this requirement in a note. I do not see a requirement anywhere in the specification for the HE RD initiator, except in this section. Hence this should either be a normative statement or should not be in the amendment.	Remove the Note. Add a normative statement if required.		2017/1/9 9:42
6975	Joseph Levy	225	1 10.28.3	136	40	T	Y	136.40	10.28.3	Why is this behavior specific to an HE STA and why can an HE non-AP STA use RD in any TXOP?	Clarify this behavior		2017/1/9 9:42
6976	Joseph Levy	225	1 9.4.2.139	68	48	E	N	68.48	9.4.2.139	Why is there a non-HE in this paragraph that appears to be legacy text?	Indicate that the "non-HE" in this text is added text or explain why it is legacy text.		2017/1/9 9:42
6977	Joseph Levy	225	1 9.4.2.139	68	50	E	N	68.50	9.4.2.139	Why is there a non-HE in this paragraph that appears to be legacy text?	Indicate that the "non-HE" in this text is added text or explain why it is legacy text.		2017/1/9 9:42
6978	Joseph Levy	225	1 10.28.3	136	50	T	Y	136.50	10.28.3	The addition of Multi-STA BlockACK to the list of frames for behavior of a non-HE RD initiator, breaks the specification because a non-HE RE initiator does not know what a Multi-STA BlockACK is as this an HE concept	Delete "Multi-STA BlockAck"		2017/1/9 9:42
6979	Joseph Levy	225	1 10.28.3	136	50	T	Y	136.50	10.28.3	Insert a requirement that an HE RD initiator shall be able to transmit a +HTC or DMG frame with the RDG/More PPDU subfield set to 1 that requires a response of a Multi-STA BlockAck frame.	Insert a requirement for A HE RD initiator, as suggested in the comment.		2017/1/9 9:42

6980	Joseph Levy	225	1 10.28.4	137	10	T	Y	137.10 10.28.4	The use of the word "while" is not appropriate. While is usually used to connote that something only occurs during a specific time, i.e. while something else is happening. It is not used to indicate alternative behavior.	delete the word "while"	2017/1/9 9:42
6981	Joseph Levy	225	1 10.28.4	137	19	T	Y	137.19 10.28.4	The use of the word "while" is not appropriate. While is usually used to connote that something only occurs during a specific time, i.e. while something else is happening. It is not used to indicate alternative behavior.	delete the word "while"	2017/1/9 9:42
6982	Joseph Levy	225	1 11.23.1	143	64	T	Y	143.64 11.23.1	Is the HE Operation element the only required element that must be present in a TDLS setup Confirm frame for HE capable STAs. Aren't the VHT or HT Operation elements also required to establish a tunneled direct-link?	Correct the requirement for which elements shall be present in a TDLS setup Confirm frame when both STAs are HE capable.	2017/1/9 9:42
6983	Joseph Levy	225	1 27.3.1	152	41	T	Y	152.41 27.3.1	There is no need to call "legacy" fragmentation "static fragmentation", it is adequate to simply refer to it as fragmentation, with the references provided.	Delete the insertion "static"	2017/1/9 9:42
6984	Joseph Levy	225	1 27.3.1	152	41	T	Y	152.41 27.3.1	Aren't there more than on fragmentation procedure? Shouldn't this be fragmentation procedures?	Replace "procedure" with procedures"	2017/1/9 9:42
6985	Joseph Levy	225	1 27.3.1	152	42	E	N	152.42 27.3.1	The sentence describing the introduction of dynamic fragmentation is poorly worded. Please consider improving the wording. Not also that "can" is a non-normative verb and hence should not be used in a normative section. The normative verb is "may".	Replace "In addition, an HE STA can support the dynamic fragmentation procedure defined in this subclause." With: "An HE STA may also support the dynamic fragmentation procedures defined in this subclause." Also it would probably improve readability of the specification if this sentence started the next paragraph.	2017/1/9 9:42
6986	Joseph Levy	225	1 27.3.1	152	48	T	Y	152.48 27.3.1	Reading this paragraph one could interpret that dynamic fragmentation suspends all fragmentation rules in 10.2.7. I don't believe that this is the intent. Clarify that dynamic fragmentation allows for several of the fragmentation rules in 10.2.7 to be ignored, not all of them.	Clarify the paragraph so that it is clear that only some fragmentation rules in 10.2.7 do not apply to HE dynamic fragmentation.	2017/1/9 9:42
6987	Joseph Levy	225	1 27.3.1	152	51	T	Y	152.51 27.3.1	It is interesting that dynamic fragmentation provides further flexibility in aggregating the data to minimize padding - but there is no reference to dynamic fragmentation in 2.7.5 (MU operation). Either provide more information in this paragraph on how dynamic fragmentation makes MU operation more efficient, or provide some information in 2.7.5 on how dynamic fragmentation could be used to make MU operation more efficient.	Remove the reference to MU operation or provide some useful explanation as to how MU operation is improved by dynamic fragmentation.	2017/1/9 9:42
6988	Joseph Levy	225	1 27.3.2	152	58	T	Y	152.58 27.3.2	The rules defined in 10.2.7 do not list any the rules listed in this paragraph. Hence the list in this paragraph is not a list of rules defined in 10.2.7 and 10.5 which are not being followed as stated in the paragraph. These all seem to be new additional rules or behaviors.	Either provide a list of the rules from 10.2.7 and 10.5 that are now being excepted or rephrase the paragraph so that it is correct.	2017/1/9 9:42
6989	Joseph Levy	225	1 27.3.2	152	55	T	Y	152.55 27.3.2	The phrase "a dynamic fragment" does not make any sense as it is used. As the fragment, dynamic or not, is always contained in a MPDU. So a dynamic fragment can not be an MPDU as stated.	Correct the sentence to so that it is a meaningful statement. As it is I'm not sure what the intended meaning of the sentence is.	2017/1/9 9:42

6990	Joseph Levy	225	1 27.3.2	152	63	T	Y	152.63 27.3.2	The statement that reception dynamic fragments is not mandatory, does not belong here. The requirement to receive an MPDU containing a dynamic fragmented payload may be optional, but that should be made clear in the PICs not here in the specification. The specification should only say that a STA may receive an MPDU that contains dynamically fragmented MSDU/A-MPDU/MMPDU. The restriction, if any, is that an HE AP should only send a MPDU containing dynamically fragmented MSDU/A-MPDU/MMPDU to a HE STA that can receive it.	Remove or correct this bulleted so that it is providing some useful information.		2017/1/9 9:42
6991	Joseph Levy	225	1 27.3.2	153	1	T	Y	153.01 27.3.2	The bulleted item "Fragmentation of A-MSDUs is permitted when supported by the recipient" does not really provide a useful requirement. It should be more specific. First, I believe that this item is only discussing dynamic fragmentation hence it should state that. Second, why is the only restricted to A-MSDUs, is there something special about A-MSDUs, if so it should be clear what is special. Lastly, "when supported by the recipient" should be defined. e.g. What element is set in the HE non-AP STA so that the HE AP knows that it can or cannot receive a MPDU with a dynamically fragmented A-MSDU.	Clarify the bulleted item so that the issues raised in the comment are satisfied. It is not clear to me what the intent of the bulleted item is.		2017/1/9 9:42
6992	Joseph Levy	225	1 27.3.2	153	3	T	Y	153.03 27.3.2	Assuming that the rule in 10.5 which is excepted is "The length of each fragment shall be an even number of octets, except for the last fragment of an MSDU or MMPDU, which may be either an even or an odd number of octets." this bulleted item should simply contain this rule as one which is being excepted.	Replace this bullet with: "The length of each fragment shall be an even number of octets, except for the last fragment of an MSDU or MMPDU, which may be either an even or an odd number of octets." If more exceptions need to be made to the rules in 10.5 and 10.2.7 the rules to be excepted should be listed as separate bullet items.		2017/1/9 9:42
6993	Joseph Levy	225	1 27.3.2	153	8	T	Y	153.08 27.3.2	If A-MSDUs are allowed to be fragmented then the rule that an A-MSDU shall be carried, without fragmentation, with in a single QoS Data frame, must also be noted as an exception. But, why anyone would want to fragment an A-MSDU is beyond me. If one is bothering to assemble an A-MSDU in the first place to improve transmission efficiently, why would one then need to fracture the A-MSDU, why not simply not build the A-MSDU and send the MDSUs.	Either, maintain the requirement that an A-MSDU be carried without fragmentation, by removing the possibility of an A-MSDU being fragmented in this section or state that the rule that an A-MSDU can not be fragmented does not apply to dynamic fragmentation.		2017/1/9 9:42
6994	Joseph Levy	225	1 27.3	152		T	Y	152.00 27.3	Why is there no mention of the No-Fragmentation field in the ADDBA Extension element?	Define the impact/status of the No-Fragmentation field in the ADDBA Extension element?		2017/1/9 9:42
6995	Joseph Levy	225	1 28.3.17.6.3	349	1	T	Y	349.01 28.3.17.6.3	.... in the primary 20 MHz channel within a period of aCCATime after the signal arrives at the receiver's antenna(s); then the receiver shall not issue a PHY-CA.indication(BUSY,{secondary}), PHYCCA.indication(BUSY,{secondary40}), PHY-CCA.indication(BUSY,{secondary80}), or PHYCCA.indication(IDLE) primitive while the threshold continues to be exceeded.	Question: this seems to restrict reporting on any other available frequency resource when the primary is busy - I know it was decided to do this in n and ac , but I thought this restriction was being lifted in HE? If this restriction was removed please up date the text so that it is clear that reporting on non-primary channels is allowed even if the primary is busy.		2017/1/9 9:42

6996	Joseph Levy	225	1			E	N		Also note there seems to be a lot of duplication of the VHT phy in the HE phy section. Given that the phys are so similar, especially in regard to CCA behavior, wouldn't it be more efficient to simply call out the differences in this phy section, after all all HE STAs are VHT STAs. - 28.3.17.6.	Reduce the duplication by properly referencing the VHT PHY section.		2017/1/9 9:42
6997	Joseph Levy	225	1 9	19		G	Y	19.00 9	There seems to be quite a lot of behavior description in the Frame format clause: 9. This is not desirable and should be removed to the appropriate PHY or MAC clause where the behavior should be described. As per the latest 802.11 editorial style guide (11-09/1024r11): "3.3 Frame formats (Clause 8) Clause 8 is reserved for describing structure (apart from statements in 8.1). Statements that describe the actions of a STA in order to determine a value for a field and any other behavioral specification should not be present in Clause 8. This requires a bit of interpretation. For example: "the Length field is set to the logarithm of the number of octets in the remainder of the frame" is acceptable. The act of calculating a logarithm is not	Remove all behavior description in this clause and relocated it in the proper PHY or MAC clause.		2017/1/9 9:42
6998	Joseph Levy	225	1			G	Y		Unfortunately, even with the additional time allowed for the review of this amendment and a significant time commitment on my part, I did not have enough time to review and comment on all of the clauses that warranted comment. It seemed that every clause I looked at required correction and comment. Given state of this draft it was very difficult for me to review high level technical features and their interactions, which I believe is critical for a complete technical review of the amendment. I was forced to spend most of my time trying to figure out what the technical features were and how they should be correctly described/specified. The lack of clear feature descriptions in clause 4 further hampered my ability to review and understand the goals and purpose of the new HE features. It was very difficult to understand how the HE features should work with the existing features in the baseline specification. It was	Improve the descriptions in clause 4, so that there is a useful description as to what the new features are and how they work together and with legacy features to provide improved performance. In hindsight, given the current state of the amendment it would have made more sense to do a TG review prior to sending the amendment in its current form to the WG for letter ballot. In addition it would be helpful if all of the authors of this document were familiar with the 802.11 Editorial Style Guide or if is not possible for the authors to follow the Style Guide that the editor(s) provide more in depth editing prior to submitting this amendment to WG letter ballot again. I understand that many members wish to quickly complete this amendment, but in my view it would be a mistake to lower the quality of the specification simply to speed things along. I don't see how any voter who reviewed the current draft could consider	2017/1/9 9:42
6999	Joseph Levy	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	There is a TBD in the draft. All TBD should be removed from the draft prior to WG letter ballot. Please correct this issue.	Remove the TBD and provide what behavior is expected if the STA is not associated with the AP.		2017/1/9 9:42
7000	Joseph Levy	225	1 Annex B	407		G	Y	407.00 Annex B	Annex B needs significant work as it seems to have many errors in it.	Correct the PICS so that it is clear which features are optional and which are mandatory. Also, correct the dependence of the various features.		2017/1/9 9:42
7001	Joseph Levy	225	1 B.4.3	407	26	T	Y	407.26 B.4.3	The orthogonal frequency division multiplexing (OFDM) PHY is not mandatory for STAs that support the CFHT5G PHY nor the CFTVHT PHY. Therefore remove the dependence requirement.	Delete: "CFHT5G:M" and "CFTVHT:M"		2017/1/9 9:42
7002	Joseph Levy	225	1 B.4.3	407	28	T	Y	407.28 B.4.3	What is CFHEW? This does not seem to be defined any where. Therefore either replace it with CFHE which is what I believe was intended to represent High Efficiency WLAN operation.	Delete: "CFHEW" and replace it with "CFHE".		2017/1/9 9:42

7003 Joseph Levy	225	1	407		T	Y	407.00	Replace CFHEW by CFHE throughout the appendix B, this includes	Replace "CFHEW" by "CFHE"	2017/1/9 9:42
7004 Joseph Levy	225	1 B.4.3	407	47	T	Y	407.47 B.4.3	The use of O.6 is not being used correctly. O.6 means one of all the O.6 choices needs to be chosen. e.g. in the baseline specification CFHT:O.6 corresponds to CFHT2G4 and CFHT5. This means that for CFHT PHY at least one of these options must be supported: 2.4 GHz or 5 GHz. The reuse of O.6 in regard to the CFHEW2G4 option for CFHEW does not make any sense as it needs to be a new O.<index> to choose what optional bands are supported.	Replace "CFHEW:O.6" with "CFHE:O.8" or whatever the next available index is.	2017/1/9 9:42
7005 Joseph Levy	225	1 B.4.4	408	27	T	Y	408.27 B.4.4	The way fragmentation is shown in the table, breaks the current specification, by assigning a new term Static Fragmentation that was not previously defined. Hence all legacy requirements are now broken. To fix this remove the term static fragmentation and simply add Dynamic fragmentation.	Undo the deletions and leave PC6 as it was. Introduce PC45 Dynamic fragmentation and inside the same box provide PC45.1 Dynamic fragmentations level 0, PC45.2 Dynamic fragmentation level 1, PC45.3 Dynamic fragmentation level 2. With PC45.1 being mandatory for CFHE and the other PC45.x being optional for CFHE.	2017/1/9 9:42
7006 Jouni Malinen	225	1 B.4.27.2	414	23	T	N	414.23 B.4.27.2	HEWP4.* items in PICS have self-referential preficate in the Status column. That does not make much sense ("item is mandatory if the item is supported."). When are these items supposed to be mandatory?	Fix the predicate in HEWP4.1 .. HEWP4.5 items Status column.	2017/1/9 9:42
7007 Jouni Malinen	225	1 4.3.14a	9	21	T	N	9.21 4.3.14a	Use of "shall" in Clause 4 (General description) seems to be inconsistent with existing Clause 4 text and also most of the new text added in P802.11ax/D1.0. Isn't this supposed to be descriptive clause where "STA shall support" would more likely be written "STA supports"? Furthermore, what exactly is "shall support operation in 20 MHz channel bandwidth only" supposed to say? That the STA is not allowed to use any other channel bandwidth than 20 MHz (e.g., neither 40 MHz nor 10 MHz or smaller)? That does not sound likely, but this could be interpreted as saying so.. Or is this saying that STA shall support operation at least in a 20 MHz channel? Or something else? It would be good to be more specific on what the exact mandatory behavior is for an HE non-AP STA. This applies to both lines 20 (5 GHz band) and 26 (2.4 GHz	At least replace "shall support" with "supports" (or something similar) on both lines and ideally, rewrite these to clarify the intent of this description of a mandatory functionality.	2017/1/9 9:42
7008 Jouni Malinen	225	1 9.3.3	51	13	E	N	51.13 9.3.3	9.3.3 subclause numbers in P802.11ax/D1.0 do not match IEEE Std 802.11-2016.	Update 9.3.3 subclause numbers to match IEEE Std 802.11-2016.	2017/1/9 9:42
7009 Jouni Malinen	225	1 9.4.2.1	67	29	T	N	67.29 9.4.2.1	P802.11ax/D1.0 defines multiple new elements. Only half of those have been added into Table 9-77.	Add the following Element ID 255, Element ID Extension <ANA> elements into Table 9-77: BSS Color Change Announcement element, Quiet Time Period Setup element, Quiet Time Period Request element, Quiet Time Period Response element.	2017/1/9 9:42
7010 Jouni Malinen	225	1 9.4.2.220	93	46	T	N	93.46 9.4.2.220	Figure 9-589cu shows incorrect unit for the size of the subfields within the OCW Range field: they are bits, not octets, i.e., the total size of the OCW Range field is 8 bits = 1 octet; not 8 octets.	In Figure 9-589cu, replace "Octets" with "Bits".	2017/1/9 9:42

7011 Jouni Malinen	225	1 B.4.3	407	42	T	N	407.42 B.4.3	Many of the PICS items refer to CFHEW item in the Status column. However, CFHEW is not defined anywhere.. Maybe CFHE was a typo and supposed to be that missing CFHEW instead?	Replace "CFHE" with "CFHEW" in the Item column of B.4.3 table.		2017/1/9 9:42
7012 Jouni Malinen	225	1 B.4.27.2	414	19	T	N	414.19 B.4.27.2	Number of PICS items that are being referenced in a predicate are missing the asterisk in the Item column to indicate this.	Add asterisk into the Item column for the following PICS items: CFHEW2G4, CFHEW5G, CFHEW20, CFHEW80, HEWM6.1, HEWM6.2, HEWM6.4, HEWM6.5, HEWM6.7, HEWP2.1, HEWP3.1, HEWP3.2, HEWP3.3, HEWP3.4, HEWP3.5, HEWP6.1, HEWP6.2, HEWP6.3, HEWP6.4, HEWP6.5, HEWP6.6, HEWP6.7, HEWP12.1.1, HEWP12.1.2, HEWP12.1.4, HEWP12.1.5, HEWP12.1.7, HEWP12.1.8, HEWP12.1.10, HEWP12.1.11, HEWP12.1.13, HEWP12.1.14, HEWP12.1.16, HEWP12.1.17, HEWP12.1.19, EWP12.1.20, HEWP12.1.22, HEWP12.1.23, HEWP12.2.1, HEWP12.2.3, HEWP12.2.5, HEWP12.2.7, HEWP12.2.9, HEWP12.2.11, HEWP12.2.13, HEWP12.2.15.		2017/1/9 9:42
7013 Jouni Malinen	225	1 4.3.14a	9	24	T	N	9.24 4.3.14a	The way an HE STA is being conditionally described as a VHT/HT STA based on band and whether it is a non-AP STA seems to imply that an HE AP in 2.4 GHz band is not necessarily an HT AP. If that were the case, there would be need to describe some HT STA requirements for HE AP, e.g., as far as not allowing WEP or TKIP to be used as pairwise cipher. However, based on the PICS item CFHT change (add CFHEW:M to Status), it looks like an HE AP is actually mandated to be an HT AP in the 2.4 GHz band (similarly to how an HE AP in the 5 GHz band is also a VHT AP).	Add the following item into the "In the 2.4 GHz band" list: "An HE AP is also an HT AP".		2017/1/9 9:42
7014 Ju-Hyung Son	225	1 8.3.5.3.2	15	47	E	Y	15.47 8.3.5.3.2	PHY-DATA.request is not correct.	Change from "PHY-DATA.request" to "PHY-DATA.indication"		2017/1/9 9:42
7015 Ju-Hyung Son	225	1 9.2.4.6.4.7	28	1	T	Y	28.01 9.2.4.6.4.7	In Table 9-18d, need to specify the meaning of the bandwidth column (20MHz, 40MHz, 80MHz, 160MHz and 80+80MHz). How a non-AP STA choose each BW column when transmitting BQR in solicited and unsolicited mode respectively?	As per comment.		2017/1/9 9:42
7016 Ju-Hyung Son	225	1 9.2.4.6.4.7	28	27	T	Y	28.27 9.2.4.6.4.7	The currrent PHY-CCA.indication primitive only provides CCA results of primary, secondary, secondary40 within Primary 80MHz. In order to support individual 20MHz CCA results within secondary40, additional PHY-CCA.indication primitives should be defined.	Please specify the additional PHY-CCA.indication primitives indicating channel availability of each 20MHz channel in secondary40 for BQR.		2017/1/9 9:42
7017 Ju-Hyung Son	225	1 9.2.4.6.4.7	28	38	T	Y	28.38 9.2.4.6.4.7	The currrent PHY-CCA.indication primitive only provides CCA results of primary, secondary, secondary40, secondary80 within Primary 160MHz(80+80MHz). In order to support individual 20MHz CCA results within secondary40 and secondary80, additional PHY-CCA.indication primitives should be defined.	Please specify the additional PHY-CCA.indication primitives indicating channel availability of each 20MHz channel in secondary40 and secondary80 for BQR.		2017/1/9 9:42

7018	Ju-Hyung Son	225	1 9.2.4.6.4.7	28	1	T	Y	28.01 9.2.4.6.4.7	When a non-AP STA transmits BQR in HE SU PPDU, BQR would be useful only if the Available Channel Bitmap indicates larger BW than the BW of the transmitted HE SU PPDU. For example, if a non-AP STA trasmits BQR in 40MHz PPDU (40MHz is idle), BQR would be useful only if the Bitmap indicates 80MHz or 160MHz channel availability.	Please clarify the BW of Available Channel Bitmap setting in unsolicited BQR.		2017/1/9 9:42
7019	Ju-Hyung Son	225	1 9.2.4.6.4.7	28	1	T	Y	28.01 9.2.4.6.4.7	How a non-AP STA chooses the type of available CH bitmap in Table 9-18d when sending BQR in HE Trigger-based PPDU? Is it based on the BW of HE Trigger-based PPDU that contains BQR? Is it based on the allocated RU for each STA in HE Trigger-based PPDU?	Please clarify the BW of Available Channel Bitmap setting in solicited BQR.		2017/1/9 9:42
7020	Ju-Hyung Son	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	RDP Trigger frame is not exist	Change from "RDP Trigger frame" to "RDP"		2017/1/9 9:42
7021	Ju-Hyung Son	225	1 10.9	127	22	T	Y	127.22 10.9	the text is not only for receive operating mode	Change from "receive operating mode" to "operating mode"		2017/1/9 9:42
7022	Ju-Hyung Son	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	HE MU PPDU can be transmitted by a non-AP STA. An HE AP shall not enter intra-PPDU PS when a non-AP STA transmitts UL HE MU PPDU. Therefore, an HE AP shall only enter intra-PPDU PS when it receives DL HE MU PPDU.	Change from "HE MU PPDU" to "DL HE MU PPDU"		2017/1/9 9:42
7023	Ju-Hyung Son	225	1 27.8.1	188	44	T	Y	188.44 27.8.1	It is not clear whether AP can change its operation mode with the OMI indication. In cases where AP includes OMI in multiple MPDUs in DL HE MU PPDU format, and only subset of STAs acknowledges the MPDUs, what is the AP's behavior for changing OMI settings? In baseline spec, 11.42 Notification of operating mode changes, AP/non-AP STA's behavior for operation mode change is differently described. Therefore, OMI also should clarify AP's behaviour in clear manner.	Clarify the behavior of OMI A-Control for AP and non-AP STAs clearly.		2017/1/9 9:42
7024	Ju-Hyung Son	225	1 27.8.1	188	36	T	Y	188.36 27.8.1	Does including OMI A-Control in an MPDU require change to the Ack Policy of the MPDU to immediate ack?	Change from "solicits an immediate acknowledgement" to "solicits an acknowledgement"		2017/1/9 9:42
7025	Ju-Hyung Son	225	1 27.8.1	188	45	T	Y	188.45 27.8.1	ROM is requiring "an immediate acknowledgement" in Line 36 and TOM is requiring "an acknowledgement" in Line 45. Why they require different Ack Policy for an MPDU that contains each. Please clarify the difference or harmonize the wording.	As per comment.		2017/1/9 9:42
7026	Ju-Hyung Son	225	1 27.8.2	188	57	T	Y	188.57 27.8.2	From "the immediate acknowledgement", does OMI requires a certain Ack Policy for the MPDU that contains it? Otherwise, remove "immediate".	As per comment.		2017/1/9 9:42
7027	Ju-Hyung Son	225	1 27.8.2	188	61	T	Y	188.61 27.8.2	From "the immediate acknowledgement", does OMI requires a certain Ack Policy for the MPDU that contains it? Otherwise, remove "immediate".	As per comment.		2017/1/9 9:42
7028	Ju-Hyung Son	225	1 27.8.3	189	29	T	Y	189.29 27.8.3	Why only "The Channel Width" is indicated in "NOTE" while the similar statement for Tx NSS is not in the "NOTE"?	As per comment.		2017/1/9 9:42
7029	Ju-Hyung Son	225	1 27.8.3	189	26	T	Y	189.26 27.8.3	Even though a non-AP STA indicates its max number of NSS in OMI A-Control field, the STA should use the indicated number of NSS in the soliciting Trigger frame.	Change "will use in response" to "may use in respone".		2017/1/9 9:42
7030	Ju-Hyung Son	225	1 27.8.3	189	29	T	Y	189.29 27.8.3	Even though a non-AP STA indicates its max channel width in OMI A-Control field, the STA should use the indicated channel width in the soliciting Trigger frame.	Change "will use in response" to "may use in respone".		2017/1/9 9:42

7031 Ju-Hyung Son	225	1 27.8.2	189	8	T	Y	189.08 27.8.2	What is the meaning of "After transmitting the acknowledgement frame immeidate response immediate acknowledgement" ? If OMI does not mandate the Ack Policy of the MPDU to be carried, please remove "immediate" term.	Change from "After transmitting the acknowledgement frame immeidate response immediate acknowledgement" to "After transmitting the acknowledgement frame".	2017/1/9 9:42
7032 Ju-Hyung Son	225	1 9.4.2.218.3	84	28	T	Y	84.28 9.4.2.218.3	For the current HE-SIG-B design which is designed for DL MU signalling, it is inefficient to signal full-BW UL HE MU PPDU transmission. RU allocation field is not required in full-BW UL HE MU PPDU, since SIG-A's BW subfield signals the PPDU BW and the signaling of RU allocation is not needed.	Please clarify SIG-A/B signalling method for full bandwidth (20/40/80/160(80+80) MHz) UL HE MU PPDU transmission with the minimal overhead.	2017/1/9 9:42
7033 Ju-Hyung Son	225	1 9.4.2.218.3	84	28	T	Y	84.28 9.4.2.218.3	For the current HE-SIG-B design which is designed for DL MU signalling, it is inefficient to signal partial bandwidth transmission (left or right 106tone/20MHz) of UL HE MU PPDU transmission. For example, it requires signalling of RU allocation (106, -, 106) and two User specific information fields where one user information field would be useless.	Please clarify SIG-A/B method for partial bandwidth (left/right 106-tone RU within 20MHz) UL HE MU PPDU transmission with the minimal overhead.	2017/1/9 9:42
7034 Ju-Hyung Son	225	1 27.15.2	201	28	T	Y	201.28 27.15.2	An HE non-AP STA may transmit HE MU PPDU also. Please clarify the case in this section.	Insert the following sentence in Line 28. "An HE non-AP STA may transmit an HE MU PPDU to an HE AP if it has received from the HE AP an HE Capabilities element with the UL HE MU PPDU Payload Support field equal to 1; otherwise the STA shall not trasmit HE MU PPDU to the HE AP."	2017/1/9 9:42
7035 Ju-Hyung Son	225	1 27.15.2	201	36	T	Y	201.36 27.15.2	How an HE non-AP STA can transmit HE trigger-based PPDU to a peer STA without receiving the soliciting Trigger frame?	Please clarify the case where an HE non-AP STA can transmit HE Trigger-based PPDU to a peer STA without receiving the soliciting Trigger frame. Otherwise remove the sentence "An HE non-AP STA ~ to the peer STA."	2017/1/9 9:42
7036 Ju-Hyung Son	225	1 28.1.1	209	42	T	Y	209.42 28.1.1	Channel puncturing is not a defined terminology. Please use the term "preamble puncturing" instead.	Change from "supports channel puncturing" to "supports preamble puncturing"	2017/1/9 9:42
7037 Ju-Hyung Son	225	1 28.3.17.6.4	349	7	T	Y	349.07 28.3.17.6.4	The current PHY-CCA.indication primitive only provides CCA results of primary, secondary, secondary40, and secondary80. In order to support BW options of current preamble puncturing mode, additional PHY-CCA.indication primitives should be defined.	Please specify the additional PHY-CCA.indication primitives for preamble puncturing.	2017/1/9 9:42
7038 Ju-Hyung Son	225	1 9.7.3	109	3	T	Y	109.03 9.7.3	As 11ax allows Multi-TID A-MPDU aggregation, QoS Data of one TID with No Ack policy may be aggregated with QoS Data of other TID with Immediate Ack policy. Please add the contents in Table 9-425.	As per comment.	2017/1/9 9:42
7039 Ju-Hyung Son	225	1 9.7.3	111	3	T	Y	111.03 9.7.3	For example in MU Cascading case, TXOP holder may transmit Ack, HT-immediate BlockAck, M-BA in an A-MPDU of data enabled no immediate response context. Please add the contents in Table 9-426.	As per comment.	2017/1/9 9:42
7040 Ju-Hyung Son	225	1 10.22.2.8	132	53	T	Y	132.53 10.22.2.8	From the dynamic fragmentation capabilities in HE STA, 11ax needs to revise exception rules that allow a STA to exceed the TXOP limit. TXOP limit exception rules should be revised for HE STAs considering dynamic fragmentation capabilities.	As per comment.	2017/1/9 9:42

7041	Ju-Hyung Son	225	1 9.3.1.23	47	48	T	Y	47.48 9.3.1.23	When a Trigger frame includes User Info fields with the AID12 field set to 0, the Padding length should be enough to cover all possible STAs that can participate. Otherwise, it would restrict the number of STAs that can participate the UL OFDMA based Random Access due to the Padding length.	Please clarify the padding length when a Trigger frame includes random acces RU.	2017/1/9 9:42
7042	Ju-Hyung Son	225	1 27.16.2	206	39	T	Y	206.39 27.16.2	When Dual Beacon is used, two kinds of Beacon frames have TBTTs respectively. Please specify BSS color change sequence when Dual Beacon is used.	As per comment.	2017/1/9 9:42
7043	Ju-Hyung Son	225	1 27.5.2.6.2	173	1	T	Y	173.01 27.5.2.6.2	Please specify UL OFDMA-based random access when a BSS is operating in Multiple BSSID mode. An HE STA in Multiple BSSID mode would receive RAPS elements and Trigger frames from its multiple BSSs in Multiple BSSID set. Please clarify how to decrement/initialize its OBO in multiple BSSID mode.	As per comment.	2017/1/9 9:42
7044	Ju-Hyung Son	225	1 9.3.1.9.7	38	6	T	Y	38.06 9.3.1.9.7	An HE STA can construct a multi-TID A-MPDU containing multiple nonzero length MPDUs with the EOF subfield set to 1 or multiple nonzero length MPDUs with the EOF subfield set to 0. Utilizing the EOF field, a multi-STA BlockAck frame can be more efficient.	As per comment	2017/1/9 9:42
7045	JUNG HOON SUH	225	1 28.1.1	209	48	G	Y	209.48 28.1.1	We need a general statement in the introduction of 11ax PHY that we have a frame with a mixed symbol length in the preamble portion and in the data portion. This is a key feature of 11ax different from the Legacy.	Insert the following statement in Line 48. The HE PHY supports the mixed OFDM symbol length in a frame where the OFDM symbol length of 3.2 usec in the preamble field portion and the symbol length of 12.8 usec excluding the Guard Interval in the data field portion are mixed.	2017/1/9 9:42
7046	JUNG HOON SUH	225	1 28.3.3.3	236	3	T	Y	236.03 28.3.3.3	Explanation on why the null subcarriers are located in each band as in the Table 28-6.	Insert the following statement in Line 3. Those null subcarriers on the edge of the band may provide the protection of the RU adjacent to the edge tones from being distorted. The extra null subcarriers located between the edge tones and the RU adjacent to the edge tones provide the protection of the RU from the edge tone distortion.	2017/1/9 9:42
7047	JUNG HOON SUH	225	1 28.3.10.8	285	56	G	Y	285.56 28.3.10.8	Add a general statement on what HE-SIG-B is for. There is a general statement for HE-SIG-A, but for HE-SIG-B, a technical detail starts immediately at the beginning of the HE-SIG-B section.	Insert the following statement in Line 56. The HE-SIG-B field provides the OFDMA resource allocation information for the scheduled STAs to look up the corresponding resources in the data portion of the frame.	2017/1/9 9:42
7048	JUNG HOON SUH	225	1 28.3.10.9	300	35	G	Y	300.35 28.3.10.9	Description on a parameter of Eq. 28-34 is missing	Add the description on what $M_{r,u}$ is.	2017/1/9 9:42
7049	Junichi Iwatani	225	1 3.4	7	15	E	N	7.15 3.4	Regarding "OMI Operation mode indication", according to 27.8, OMI stands for "Operating mode indication"	Change "Operation mode indication" to "Operating mode indication"	2017/1/9 9:42
7050	Junichi Iwatani	225	1 9.2.4.6.4.2	23	59	E	N	23.59 9.2.4.6.4.2	"... and is set to the number of OFDM symbols the Data field of the HE trigger-based PPDU minus 1" This sentence is unclear.	For example, "... and is set to the number of OFDM symbols used in the Data field of the HE trigger-based PPDU minus 1"	2017/1/9 9:42
7051	Junichi Iwatani	225	1 9.2.4.6.4.3	24	31	E	N	24.31 9.2.4.6.4.3	Regarding the name "Operating Mode", in other clauses (especially 27.8 Operating mode indication), this is called "OMI A-Control field". It is not clear whether they have the same meaning. The same word (e.g., Operating mode indication(OMI)) should be used.	as in comment	2017/1/9 9:42
7052	Junichi Iwatani	225	1 9.2.4.6.4.6	27	19	E	N	27.19 9.2.4.6.4.6	"(see 26.3.13.2 (Power pre-correction)" should be "(see 28.3.14.2 (Power pre-correction))."	as in comment	2017/1/9 9:42
7053	Junichi Iwatani	225	1 9.2.4.6.4.7	27	65	E	N	27.65 9.2.4.6.4.7	"25.5.1.3" should be "27.5.1.3" (reference to DL HE MU transmission)	as in comment	2017/1/9 9:42

7054	Junichi Iwatani	225	1 9.3.1.23.1	48	41	E	N	48.41 9.3.1.23.1	"Table 8-159" is not found in Draft 1.0 and other documents.	as in comment	2017/1/9 9:42
7055	Junichi Iwatani	225	1 9.4.2.218.2	79	26	E	Y	79.26 9.4.2.218.2	Regarding "Group Addressed Multi-STA BlockAck In DL MU Support", it seems that "non-broadcast RU" should be "broadcast RU". (See 27.4.4.5, Page 162, Line 27)	as in comment	2017/1/9 9:42
7056	Junichi Iwatani	225	1 9.4.2.218.2	79	42	T	N	79.42 9.4.2.218.2	In "Table 9-262z--Subfields of the HE MAC Capabilities Information field", for "Maximum AMPDU Length Exponent", there is no definition or encoding explanation.	Add explanations	2017/1/9 9:42
7057	Junichi Iwatani	225	1 9.4.2.218.3	86	18	T	Y	86.18 9.4.2.218.3	"SRP-based SR Support" is not explained in other clauses	Add explanations in Clause 27 or 28	2017/1/9 9:42
7058	Junichi Iwatani	225	1 9.4.2.220	93	25	E	N	93.25 9.4.2.220	"Length" should be "Length"	as in comment	2017/1/9 9:42
7059	Junichi Iwatani	225	1 9.4.2.220	93	46	E	Y	93.46 9.4.2.220	For Figure 9-589cu--OCW Range field format, "Octets" should be "Bits". (The total size of OCW Range should be 8bits. See Figure 9-589ct)	as in comment	2017/1/9 9:42
7060	Junichi Iwatani	225	1 9.4.2.222	95	43	E	N	95.43 9.4.2.222	"Announce-ment" should be "Announcement"	as in comment	2017/1/9 9:42
7061	Junichi Iwatani	225	1 9.6.5	99	1	T	Y	99.01 9.6.5	There is no explanation for "L3 FRAG ADDBA Request", "L3 FRAG ADDBA Response" and "L3 FRAG DELBA". Only "L3 FRAG ADDBA Response" is used in 27.3.4.4 (Page 154, Line 41). However explanations are not enough.	Add explanations.	2017/1/9 9:42
7062	Junichi Iwatani	225	1 10.3.2.10.2	119	21	E	N	119.21 10.3.2.10.2	"A non-AP STA that is the recipient, within an HE MU PPDU, of a QoS Data frame or QoS Null frame that solicits an immediate response with Ack Policy equal to MU Ack ..." This sentence is confusing.	For example, "A non-AP STA that is the recipient, within an HE MU PPDU, of a QoS Data frame or QoS Null frame with Ack Policy equal to MU Ack that solicits an immediate response"	2017/1/9 9:42
7063	Junichi Iwatani	225	1 10.3.2.10.3	120	5	T	N	120.05 10.3.2.10.3	There is no example and figure for MultiSTA BlockAck response in OFDMA HE MU PPDU. The rule is complicated as described in 27.4.4.5 (Page 162, Line 22). Therefore an example should be added to clarify the rules. Also a reference to 27.4.4.5 should be added since additional conditions are described in 27.4.4.5.	as in comment	2017/1/9 9:42
7064	Junichi Iwatani	225	1 10.3.5	121	61	E	N	121.61 10.3.5	There is no description for "insert" or "change" for the following paragraphs.	For example, "Change the subclause as follows" should be added.	2017/1/9 9:42
7065	Junichi Iwatani	225	1 10.12	128	8	E	N	128.08 10.12	"An A-MSDU may be fragmented and each fragment transmitted within a single QoS Data frame" The sentence seems grammatically incorrect and unclear. (Does this mean "An A-MSDU may be fragmented and each fragment may be transmitted within a single QoS Data frame" ?)	Fix it	2017/1/9 9:42
7066	Junichi Iwatani	225	1 10.12	128	10	E	Y	128.10 10.12	"Fragmented A-MSDU Support" should be "A-MSDU Fragmentation Support" (see 9.4.2.218.2 HE MAC Capabilities Information field, Page 79, Line 46)	as in comment	2017/1/9 9:42
7067	Junichi Iwatani	225	1 10.28.4	137	11	E	N	137.11 10.28.4	"25.10.4" should be "27.10.4"$_{\text{TF}}^{\text{HE}}$(A-MPDU with multiple TID)	as in comment	2017/1/9 9:42
7068	Junichi Iwatani	225	1 10.43.1	137	47	E	N	137.47 10.43.1	"that" should be "that"	as in comment	2017/1/9 9:42
7069	Junichi Iwatani	225	1 27	149	5	G	N	149.05 27	There are only 8 figures in Clause 27. More figures should be added to clarify complicated procedures (especially for Fragmentation, Block acknowledgement and MU operation).	as in comment	2017/1/9 9:42
7070	Junichi Iwatani	225	1 27.1	149	8	G	N	149.08 27.1	In "Introduction", general explanations for HE MAC should be added first as written in 28.1 (Introduction for HE PHY)	as in comment	2017/1/9 9:42

7071 Junichi Iwatani	225	1 27.2.1	149	25	T	N	149.25 27.2.1	"... the same as the BSS color announced by the AP to which the STA is associated ..." It seems that this description is only for non-AP STAs. However, this condition (BSS color identification) should be used for APs as well. (Also in other items of this subclause.)	Clarify the conditions for an AP.	2017/1/9 9:42
7072 Junichi Iwatani	225	1 27.2.2	151	60	E	N	151.60 27.2.2	The meaning of the sentence "For example, ..." is unclear.	Clarify	2017/1/9 9:42
7073 Junichi Iwatani	225	1 27.2.3	152	13	E	Y	152.13 27.2.3	There is no definition for "HEMUEDCATimer[AC]". It seems that this is "MU EDCA Timer" described in 9.4.2.221.	Add definitions or modify the name of the parameter.	2017/1/9 9:42
7074 Junichi Iwatani	225	1 27.3.3.4	154	39	E	Y	154.39 27.3.3.4	"L3 Frag BA Request frame" and "L3 Frag BA Response" are not defined in Clause 9. ("L3 FRAG ADDBA Request" and "L3 FRAG ADDBA Request" are defined)	Modify the name or add definitions.	2017/1/9 9:42
7075 Junichi Iwatani	225	1 27.3.4.2	155	56	T	N	155.56 27.3.4.2	"Upon reception of an MPDU or S-MPDU that carries one or more dynamic fragments ..." It is unclear when an MPDU or S-MPDU carries more than one dynamic fragments. If not necessary, "or more" should be deleted.	as in comment	2017/1/9 9:42
7076 Junichi Iwatani	225	1 27.3.4.4	156	62	E	N	156.62 27.3.4.4	"module" should be "modulo"	as in comment	2017/1/9 9:42
7077 Junichi Iwatani	225	1 27.4.1	158	19	E	N	158.19 27.4.1	"MU BAR" should be "MU-BAR"	as in comment	2017/1/9 9:42
7078 Junichi Iwatani	225	1 27.4.4.1	161	37	T	N	161.37 27.4.4.1	DL MU PPDU with MU-BAR should be explained in more detail somewhere in 27.4.4. Ack policy for PPDU with MU-BAR should be clarified.	as in comment	2017/1/9 9:42
7079 Junichi Iwatani	225	1 27.4.4.2	160	54	E	N	160.54 27.4.4.2	"10.3.2.11.2 (MU acknowledgement procedure for DL MU PPDU in SU format" should be "10.3.2.10.1 (Acknowledgement procedure for DL MU PPDU in SU format)"	as in comment	2017/1/9 9:42
7080 Junichi Iwatani	225	1 27.4.4.3	161	13	E	N	161.13 27.4.4.3	"10.3.2.11.3 (MU acknowledgement procedure for HE MU PPDU in MU format)" should be "10.3.2.10.2 (Acknowledgement procedure for DL MU PPDU in MU format)"	as in comment	2017/1/9 9:42
7081 Junichi Iwatani	225	1 27.4.4.4	161	38	E	N	161.38 27.4.4.4	"10.3.2.11.4 (MU acknowledgement procedure for an UL MU transmission)" should be "10.3.2.10.3 (Acknowledgement procedure for an UL MU transmission)"	as in comment	2017/1/9 9:42
7082 Junichi Iwatani	225	1 27.4.4.4	161	56	T	N	161.56 27.4.4.4	"If the HE trigger-based PPDU carries Single MPDUs, A-MPDUs, or multi-TID A-MPDUs from more than one STA, " It seems unnatural that an HE trigger-based PPDU is from more than one STA. (Also, not "STAs"). If necessary, "HE trigger-based PPDU" should be defined for a receiver clearly. (Also for Page 162, Line 10)	Clarify or modify	2017/1/9 9:42
7083 Junichi Iwatani	225	1 27.4.4.5	162	6	E	N	162.06 27.4.4.5	"10.3.2.11.4 (MU acknowledgement procedure for an UL MU transmission)" should be "10.3.2.10.3 (Acknowledgement procedure for an UL MU transmission)"	as in comment	2017/1/9 9:42
7084 Junichi Iwatani	225	1 27.4.4.5	162	7	T	N	162.07 27.4.4.5	Regarding the format of a response in HE MU PPDU, especially for Multi-STA BA, this should be specified as OFDMA HE MU PPDU for clarification. (as described in 10.3.2.10.3, Page 120, Line 5)	as in comment	2017/1/9 9:42
7085 Junichi Iwatani	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	There is no definition for "support the reception of MU Multi-STA BlockAck frame". It seems that "Group Addressed Multi-STA Block- Ack In DL MU Support" (defined in 9.4.2.218.2, Page 79, Line 21) is correct.	Fix it	2017/1/9 9:42
7086 Junichi Iwatani	225	1 27.4.4.5	162	26	E	N	162.26 27.4.4.5	"context.." should be "context."	as in comment	2017/1/9 9:42

7087 Junichi Iwatani	225	1 27.4.4.5	162	27	T	N	162.27 27.4.4.5	There is no definition for "broadcast RU"	Define or explain	2017/1/9 9:42
7088 Junichi Iwatani	225	1 27.5.1.1	162	57	E	Y	162.57 27.5.1.1	There is no field for "DL OFDMA With MIMO Support" in HE Capabilities.	Add a new field or modify the explanation	2017/1/9 9:42
7089 Junichi Iwatani	225	1 27.5.1.2	163	11	T	N	163.11 27.5.1.2	There is no definition for "broadcast RU"	Define or explain	2017/1/9 9:42
7090 Junichi Iwatani	225	1 27.5.2.2.2	166	61	E	N	166.61 27.5.2.2.2	"Type Dependent User Info field" should be "Trigger Dependent User Info field"	as in comment	2017/1/9 9:42
7091 Junichi Iwatani	225	1 27.5.2.2.2	166	62	E	N	166.62 27.5.2.2.2	"Multi-TID Support field" should be "Multi-TID Aggregation Support field" (See 9.4.2.218.2 HE MAC Capabilities Information field)	as in comment	2017/1/9 9:42
7092 Junichi Iwatani	225	1 27.5.2.2.2	166	65	E	N	166.65 27.5.2.2.2	"(Trigger frame format)).A value 0" should be "(Trigger frame format)). A value 0"	as in comment	2017/1/9 9:42
7093 Junichi Iwatani	225	1 27.5.2.2.2	167	1	E	N	167.01 27.5.2.2.2	"HE trigger-based PPDU.A value" should be "HE trigger-based PPDU. A value"	as in comment	2017/1/9 9:42
7094 Junichi Iwatani	225	1 27.5.2.2.2	167	15	T	Y	167.15 27.5.2.2.2	"The AP may assign any value defined in Table 9-25i (Preferred AC subfield encoding) in the AC Preference Level subfield in the Trigger Dependent User Info field to 1..." The meaning of this sentence is unclear. "AC Preference Level subfield" does not include the value in Table 9-25i.	Clarify	2017/1/9 9:42
7095 Junichi Iwatani	225	1 27.5.2.2.3	167	26	E	N	167.26 27.5.2.2.3	"9.22.2.7" should be "10.22.2.7"	as in comment	2017/1/9 9:42
7096 Junichi Iwatani	225	1 27.5.2.2.3	167	30	E	N	167.30 27.5.2.2.3	"9.22.2.2" should be "10.22.2.2"	as in comment	2017/1/9 9:42
7097 Junichi Iwatani	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	", TBD" should be removed and the procedures should be specified.	as in comment	2017/1/9 9:42
7098 Junichi Iwatani	225	1 27.5.2.3	169	60	E	N	169.60 27.5.2.3	"MU BAR" should be "MU-BAR"	as in comment	2017/1/9 9:42
7099 Junichi Iwatani	225	1 27.5.2.3	170	7	E	N	170.07 27.5.2.3	"9-428" should be "Table 9-428"	as in comment	2017/1/9 9:42
7100 Junichi Iwatani	225	1 27.5.2.4	170	26	E	N	170.26 27.5.2.4	The explanations for the conditions of virtutal CS and NAV consideration are confusing. (Line 26-38)	Simplify explanations for clarification	2017/1/9 9:42
7101 Junichi Iwatani	225	1 27.5.2.5	171	39	E	N	171.39 27.5.2.5	"(#2190, 2191)" should be removed.	as in comment	2017/1/9 9:42
7102 Junichi Iwatani	225	1 27.5.2.5	171	41	E	N	171.41 27.5.2.5	"Table 9-XX" should be "Table 9-18c"	as in comment	2017/1/9 9:42
7103 Junichi Iwatani	225	1 27.5.2.6.2	173	10	T	Y	173.10 27.5.2.6.2	Regarding Figure 27-1--Illustration of the UL OFDMA-based random access procedure, 1) The meaning of the location of the arrows is not clear. 2) The differences between "before" and "after" the decrement is not explained and unclear. 3) Only one "SIFS" is written. This should be added to other places.	Modify Figure 27-1 for clarification.	2017/1/9 9:42
7104 Junichi Iwatani	225	1 27.5.2.6.2	173	33	T	Y	173.33 27.5.2.6.2	"it shall set the value of OCW to the OCWmin+1 and shall initialize its OBO counter to a random value in the range of 0 and OCWmin." There is not enough explanations for the usage of OCW. It seems that "range of 0 and OCWmin" should be "range of 0 and OCW".	Add or modify explanations on OCW and OBO counter.	2017/1/9 9:42
7105 Junichi Iwatani	225	1 27.5.2.6.2	173	37	T	N	173.37 27.5.2.6.2	The exact timing to decrement the OBO counter is not clarified.	Clarify procedures for decrementing the OBO counter.	2017/1/9 9:42
7106 Junichi Iwatani	225	1 27.5.2.6.2	173	41	T	N	173.41 27.5.2.6.2	"decrement their nonzero OBO counters by 1" In Figure 27-1, the number of RUs is 2. Then it seems that "decrement.. by 2" is correct.	as in comment	2017/1/9 9:42
7107 Junichi Iwatani	225	1 27.5.2.6.2	173	46	E	N	173.46 27.5.2.6.2	"AID value 0If the selected" should be "AID value 0. If the selected"	as in comment	2017/1/9 9:42
7108 Junichi Iwatani	225	1 27.5.2.7	174	21	T	Y	174.21 27.5.2.7	For "NDP feedback report procedure", detailed procedures and trigger frame format should be described.	Add explanations	2017/1/9 9:42
7109 Junichi Iwatani	225	1 27.6.2	177	19	E	N	177.19 27.6.2	"Table YY-1". The numbers should be specified.	as in comment	2017/1/9 9:42
7110 Junichi Iwatani	225	1 27.6.2	178	6	E	N	178.06 27.6.2	In Figure 27-4, "UL TRIG PPDU" should be "HE trigger-based PPDU"	as in comment	2017/1/9 9:42
7111 Junichi Iwatani	225	1 27.6.3	179	9	T	N	179.09 27.6.3	"The size of the HE compressed beamforming feedback requested" is unclear.	Clarify	2017/1/9 9:42

7112 Junichi Iwatani	225	1 27.7.2	181	36	E	N	181.36 27.7.2	"trigger-based PPDU" should be "HE trigger-based PPDU"	as in comment	2017/1/9 9:42
7113 Junichi Iwatani	225	1 27.7.2	184	38	E	N	184.38 27.7.2	"Table 9.248l1" should be "Table 9-262k1" (Also in Page 184 Line 43 and Page 186 Line 28)	as in comment	2017/1/9 9:42
7114 Junichi Iwatani	225	1 27.7.3.3	186	15	E	N	186.15 27.7.3.3	"trigger-based PPDU" should be "HE trigger-based PPDU"	as in comment	2017/1/9 9:42
7115 Junichi Iwatani	225	1 27.8.3	189	15	E	N	189.15 27.8.3	"Rules for transmit operation mode (TOM) indication" should be "Rules for transmit operating mode (TOM) indication" as in ROM and other OMI descriptions. (Also in Page 188, Line 46)	as in comment	2017/1/9 9:42
7116 Junichi Iwatani	225	1 27.9.1	190	11	T	N	190.11 27.9.1	There is no definition for "SR PPDU"	Define "SR PPDU" or modify explanations	2017/1/9 9:42
7117 Junichi Iwatani	225	1 27.9.1	190	13	T	Y	190.13 27.9.1	SRP-based spatial reuse (mentioned in 28.3.10.7.2) should be explained in 27.9.1 General and a new subclause (27.9.3)	as in comment	2017/1/9 9:42
7118 Junichi Iwatani	225	1 27.9.2.1	190	36	E	N	190.36 27.9.2.1	"PHYCCARESET.request" should be "PHY-CCARESET.request"	as in comment	2017/1/9 9:42
7119 Junichi Iwatani	225	1 27.9.2.1	190	50	E	N	190.50 27.9.2.1	"SR Backoff procedure for SR delayed case." is not a complete sentence. If this is the title of a subclause, the subclause number should be added.	as in comment	2017/1/9 9:42
7120 Junichi Iwatani	225	1 27.9.2.1	190	53	E	N	190.53 27.9.2.1	"SR delay" should be "SR_Delay" (also in Line 56)	as in comment	2017/1/9 9:42
7121 Junichi Iwatani	225	1 27.9.2.1	190	56	T	N	190.56 27.9.2.1	It is unclear whether "SR Backoff procedure"(Line 50) and "existing backoff procedure"(Line 56) are the same or different procedures.	Clarify the procedures to avoid confusion.	2017/1/9 9:42
7122 Junichi Iwatani	225	1 27.9.2.2	191	7	T	Y	191.07 27.9.2.2	There is no definitions for OBSS_PDmin, OBSS_Pdmax (and OBSS_PDmin_default, OBSS_PDmax_default in Line 62)	Define them	2017/1/9 9:42
7123 Junichi Iwatani	225	1 27.9.2.2	191	7	T	Y	191.07 27.9.2.2	This formula and Figure 27-6 mean that there is no lower limit of allowable OBSS_PD level. However, the lower limit of OBSS_PD should exist and may be defined as OBSS_PDmin.	Specify the minimum value (OBSS_PDmin) for allowable OBSS_PD level.	2017/1/9 9:42
7124 Junichi Iwatani	225	1 27.9.2.2	191	7	E	N	191.07 27.9.2.2	"OBSSPDmax" and "OBSSPDmin" should be "OBSS_PDmax" and "OBSS_PDmin"	as in comment	2017/1/9 9:42
7125 Junichi Iwatani	225	1 27.9.2.2	192	3	T	Y	192.03 27.9.2.2	There is no definition for "SR mode" (also in Line 7)	Define "SR mode" or add explanations.	2017/1/9 9:42
7126 Junichi Iwatani	225	1 27.9.2.2	192	16	T	N	192.16 27.9.2.2	"If a STA regards an inter-BSS PPDU as not having been received at all using a specific OBSS_PDlevel." The procedure is unclear. It seems that this means "a) issue a PHYCCARESET. request primitive and b) not update its NAV timers based on frames carried in the PPDU" in Page 190, Line20.	For example, "If a STA regards a PPDU as an inter-BSS PPDU by using a specific OBSS_PDlevel and issues a PHYCCARESET.request primitive ...,"	2017/1/9 9:42
7127 Junichi Iwatani	225	1 27.9.2.2	192	16	E	N	192.16 27.9.2.2	"If a STA regards... once its backoff reaches zero." The meaning of the sentence is unclear.	Clarify	2017/1/9 9:42
7128 Junichi Iwatani	225	1 27.9.2.2	192	20	E	N	192.20 27.9.2.2	"UL TB PPDU" should be "HE trigger-based PPDU"	as in comment	2017/1/9 9:42
7129 Junichi Iwatani	225	1 27.9.2.2	192	22	T	Y	192.22 27.9.2.2	"The minimum OBSS_PDlevel used by the STA shall be above the received signal strength of the inter-BSS PPDU" It is unclear why the minimum OBSS_PD level (OBSS_PDmin) shall be above the received signal strength of the inter-BSS PPDU.	Clarify the reason or modify the condition	2017/1/9 9:42
7130 Junichi Iwatani	225	1 27.10.4	194	35	E	N	194.35 27.10.4	"HE ER SU PPDU" should be "HE extended range SU PPDU"	as in comment	2017/1/9 9:42
7131 Junichi Iwatani	225	1 27.16.2	206	31	T	N	206.31 27.16.2	It is necessary to clarify whether the New BSS color or Color Switch Countdown time may be changed during the advertisement of BSS Color Change Announcement.	Clarify	2017/1/9 9:42

7132 kaiying Lv	225	1 9.2.4.6.4.5	26	47	E	Y	26.47 9.2.4.6.4.5	The reference of the ACI mapping between ACI and AC is missing.	Please change the text to "The ACI High subfield indicates the ACI of the AC for which the BSR is indicated in the Queue Size High subfield. The reference of the ACI mapping between ACI and AC is defined in Table 9-136 (ACI-to-AC coding)."	2017/1/9 9:42
7133 kaiying Lv	225	1 9.3.1.9.3	36	55	T	Y	36.55 9.3.1.9.3	Change "and" to "or"	As in comment	2017/1/9 9:42
7134 kaiying Lv	225	1 9.3.1.9.7	39	51	T	Y	39.51 9.3.1.9.7	Change "and" to "or"	As in comment	2017/1/9 9:42
7135 kaiying Lv	225	1 9.3.1.23.4	50	23	E	Y	50.23 9.3.1.23.4	Change the text as follows "The MU-RTS frame format is a variant of Trigger frame format as shown in Figure 9-52c (Trigger frame).The Trigger Dependent Common Info field is not present in the MU-RTS variant Trigger frame."	As in comment	2017/1/9 9:42
7136 kaiying Lv	225	1 9.6.5.1	99	16	T	Y	99.16 9.6.5.1	Which elements are included in L3 FRAG ADDBA Request, L3 FRAG ADDBA Response or L3 FRAG DELBA?	Please Clarify it.	2017/1/9 9:42
7137 kaiying Lv	225	1 10.3.2.8a.3	117	29	T	Y	117.29 10.3.2.8a.3	The MU-RTS frame can be sent to one or more STAs by the AP with which the STAs are associated or by the AP corresponding to the transmitted BSSID.	Please change the text as follows "The MU-RTS frame is sent by the AP with which the STA is associated or by the AP corresponding to the transmitted BSSID and the value of the basic NAV is 0."	2017/1/9 9:42
7138 kaiying Lv	225	1 27.2.3	152	13	T	Y	152.13 27.2.3	When the HEMUEDCATimer[AC] is not 0, is the TXOPLimit[AC] still used as defined by EDCA Parameter Set element?	Please clarify it.	2017/1/9 9:42
7139 kaiying Lv	225	1 27.3.4.1	155	30	T	Y	155.30 27.3.4.1	Change "MSDUs" to " MSDUs or A-MSDUs when supported"	As in comment	2017/1/9 9:42
7140 kaiying Lv	225	1 10.3.2.8a.1	115	62	T	Y	115.62 10.3.2.8a.1	MU-RTS/CTS also allows an AP to protect a GCR transmission.Change to "The MU-RTS/CTS procedure allows an AP to protect an MU transmission or a GCR transmission."	As in comment	2017/1/9 9:42
7141 kaiying Lv	225	1 27.5.2.2.1	165	21	T	Y	165.21 27.5.2.2.1	How to meet the requirement of MinTrigProcTime for random access?	Please clarify it.	2017/1/9 9:42
7142 kaiying Lv	225	1 27.11.5	197	44	T	Y	197.44 27.11.5	When the MAC Duration of the HE trigger-based PPDU is 0, even if the RXVECTOR parameter TXOP_DURATION of the soliciting PPDU is set to all 1s, the TXVECTOR parameter TXOP_DURATION of the HE trigger-based PPDU can be set to 0.	Please Clarify it.	2017/1/9 9:42
7143 kaiying Lv	225	1 28.3.3.10.5	240	54	T	Y	240.54 28.3.3.10.5	If a STA finds that there is no User Info field in Trigger frame carrying the STA's AID in the Address field, the STA can still use random access RU to access the channel if there are RUs allocated for random access.	Please clarify it.	2017/1/9 9:42
7144 kaiying Lv	225	1 27.4.1	157	49	E	Y	157.49 27.4.1	Change "Multi-STA" to "Multi-STA BlockAck"	As in comment	2017/1/9 9:42
7145 kaiying Lv	225	1 27.5.2.1	164	26	E	Y	164.26 27.5.2.1	Change "Class A subfield" to "Device Class subfield" on line 26 and 27 of page 164	As in comment	2017/1/9 9:42
7146 kaiying Lv	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	Miss the case of Multiple BSSID set. Please change the text to "The User Info field is addressed to a STA if the AID12 subfield is equal to the AID of the STA and the STA is associated with the AP or the TA field of the received Trigger frame with the Individual/Group bit forced to the value 0 is the same as the BSSID of any member of the Multiple BSSID Set	As in comment	2017/1/9 9:42
7147 kaiying Lv	225	1 27.5.2.3	167	65	E	Y	167.65 27.5.2.3	Please delete "--" before "Otherwise, a STA shall not send an HE trigger-based PPDU"	As in comment	2017/1/9 9:42
7148 kaiying Lv	225	1 27.5.2.3	168	27	E	Y	168.27 27.5.2.3	Change "CH_BANDWIDTHW" to "CH_BANDWIDTH"	As in comment	2017/1/9 9:42
7149 kaiying Lv	225	1 27.5.2.3	168	46	E	Y	168.46 27.5.2.3	MCS field is in User Info field. Change "the Common Info " to " User Info"	As in comment	2017/1/9 9:42
7150 kaiying Lv	225	1 27.5.2.3	168	52	E	Y	168.52 27.5.2.3	The Starting Spatial Stream subfield is in User Info field. Change "the Common Info " to " User Info"	As in comment	2017/1/9 9:42
7151 kaiying Lv	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	Change "0If" to "0.If"	As in comment	2017/1/9 9:42

7152 kaiying Lv	225	1 27.5.2.6.3	174	8	T	Y	174.08 27.5.2.6.3	If a STA transmits an HE trigger-based PPDU sent by using random access RU and fails to receive the immediate acknowledgement, the STA may contend to retransmit the PPDU without using random access RU. How to update the OCW in this case?	Please clarify it.	2017/1/9 9:42
7153 kaiying Lv	225	1 27.15.2	201	33	E	Y	201.33 27.15.2	Change "HE extended range SU PPDU Payload field" to "HE ER SU PPDU Payload"	As in comment	2017/1/9 9:42
7154 kaiying Lv	225	1 27.15.2	201	38	T	Y	201.38 27.15.2	In HE Capabilities element,there is no UL MU PPDU Support field.	Please Clarify it.	2017/1/9 9:42
7155 kaiying Lv	225	1 27.4.1	158	13	E	Y	158.13 27.4.1	Change "associate" to "are associated"	As in comment	2017/1/9 9:42
7156 kaiying Lv	225	1 11.2.2.8	202	9	T	Y	202.09 11.2.2.8	When an AP sends a broadcast Multi-STA BlockAck, the broadcast Multi-STA BlockAck can not indicate the More Data Information for multi STA since the More Data subfield is in Frame Control field. Suggest to use special TID to indicate that the ACK type subfield represents More Data subfield.	Please clarify it	2017/1/9 9:42
7157 kaiying Lv	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	Missing one dot.	Separate the sentence "If the selected RU....." from previous sentence.	2017/1/9 9:42
7158 kaiying Lv	225	1 10.22.2.4	130	25	E	Y	130.25 10.22.2.4	Add "or" in between "a non-VHT" and "non-HE STA"	as in comment	2017/1/9 9:42
7159 kaiying Lv	225	1			G	Y		It is not consistent within the whole draft text by saying "TA set to the transmitted BSSID" and "TA set to the MAC address of the transmitted BSSID"	Make it consistent through the draft	2017/1/9 9:42
7160 kaiying Lv	225	1 27.2.2	150	58	T	Y	150.58 27.2.2	When the trigger frame's responder failed to respond due to CS busy, the STA solicited an immediate response should also update NAV in order to avoid contending the medium.	Please clarify it	2017/1/9 9:42
7161 kaiying Lv	225	1 11.49.1	144	32	T	Y	144.32 11.49.1	BSS Color may switch to a new color due to BSS Color collision. Please clarify the operation under this situation.	As in comment	2017/1/9 9:42
7162 kaiying Lv	225	1 27.1.2	149	16	T	Y	149.16 27.1.2	Add a general condition" if BSS Color Disabled field in HE operation element is set to 0" through this subclause.	As in comment	2017/1/9 9:42
7163 kaiying Lv	225	1 27.1.2	149	43	T	Y	149.43 27.1.2	One of the conditions to take a received PPDU as an intra-BSS frame is that "The frame is a control frame that does not have a TA field and the RA matches the saved TXOP holder address for the BSS to which it is associated." Multiple BSSID set should be also considered.	Please change the text as follows: "The frame is a control frame that does not have a TA field and the RA matches the saved TXOP holder address for the BSS to which it is associated or for the BSS which is any member of the multiple BSSID set"	2017/1/9 9:42
7164 kaiying Lv	225	1 27.1.2	149	34	T	Y	149.34 27.1.2	One of the conditions to take a received PPDU as an intra-BSS frame is that "The RXVECTOR parameter PARTIAL_AID in the received VHT PPDU with the RXVECTOR parameter GROUP_ID equal to 0 is the same as the BSSID[39:47] of the AP to which the STA is associated" Multiple BSSID set should be also considered.	change to "The RXVECTOR parameter PARTIAL_AID in the received VHT PPDU with the RXVECTOR parameter GROUP_ID equal to 0 is the same as the BSSID[39:47] of the AP to which the STA is associated or the BSSID[39:47] which is any member of the multiple BSSID set"	2017/1/9 9:42
7165 kaiying Lv	225	1 27.1.2	149	50	T	Y	149.50 27.1.2	Multiple BSSID set should be considererd.	Please clarify it	2017/1/9 9:42
7166 kaiying Lv	225	1 27.11.4	196	43	T	Y	196.43 27.11.4	When BSS Color collision happens, an HE AP may switch the BSS Color to a new one.	Please change the text as follows: "shall maintain that single value of the BSS Color subfield until the HE STA transmitting an HE operation element switches to a new BSS Color"	2017/1/9 9:42
7167 kaiying Lv	225	1 27.2.2	150	27	E	Y	150.27 27.2.2	Please change "applies" to "apply"	As in comment	2017/1/9 9:42

7168	kaiying Lv	225	1 27.11.4	197	29	T	Y	197.29 27.11.4	When the BSS color changes, the the Partial BSS Color field in the HE Operation element shall be set to 0. Otherwise the value of RXVECTOR parameter PARTIAL_AID [5:8] in the received VHT PPDU with the RXVECTOR parameter GROUP_ID equal to 63 will cause confusion on detection of inter-BSS frame	Please add the following text at the end the subclause " When an HE AP changes the BSS color for the BSS that it serves, it shall set the Partial BSS Color field in the HE Operation element 0. Note: The HE AP may continue applying an AID assignment rule using the partial BSS color bits.		2017/1/9 9:42
7169	kaiying Lv	225	1 27.2.2	150	4	T	Y	150.04 27.2.2	Multiple BSSID set should also be considered.	change to "The RXVECTOR parameter PARTIAL_AID in the received VHT PPDU with the RXVECTOR parameter GROUP_ID equal to 0 is different from the BSSID[39:47] of the AP to which the STA is associated and the BSSID[39:47] which is any member of the multiple BSSID set"		2017/1/9 9:42
7170	kaiying Lv	225	1 9.4.2.200	70	27	T	Y	70.27 9.4.2.200	The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA. In table 9-262A,"Description when transmitted by a TWT scheduling STA, Wake TBTT Negotiation subfield = 1", which is conflicted with the above statement.	Please change to "Description when transmitted by a TWT scheduling STA, Wake TBTT Negotiation subfield =0."		2017/1/9 9:42
7171	kaiying Lv	225	1 27.7.2	181	42	T	Y	181.42 27.7.2	One TWT SP may include multiple TWT agreements negotiated by STAs with an AP which is any member of multiple BSSID set. Therefore a trigger frame is intended for TWT requesting STAs if it is sent by the AP to which the STAs are associated or by any member of the multiple BSSID set.	Please change the text as follows "A trigger frame is intended for one or more TWT requesting STAs if it is sent by the AP to which the STAs are associated or by any member of the multiple BSSID set. "		2017/1/9 9:42
7172	kaiying Lv	225	1 27.9.2.1	190	37	T	Y	190.37 27.9.2.1	When OBSS_PD based SR conditions are not met if the PPDU is HE SU PPDU or HE extended range SU PPDU and the RXVECTOR parameter SPATIAL_REUSE indicates SR_Delay, the STA determines that the PPDU carries a trigger frame and may continue to receive the trigger frame and obtain the values of Spatial reuses fields of Common Info field in the trigger frame to determine whether SRP-based spatial reuse conditions are met or not.	Please clarify it		2017/1/9 9:42
7173	kaiying Lv	225	1 27.9.2.1	190	42	T	Y	190.42 27.9.2.1	When OBSS_PD based SR conditions are not met if the PPDU is HE MU PPDU and the RXVECTOR parameter SPATIAL_REUSE indicates SR_Restricted, the STA determines that the PPDU carries a trigger frame and may continue to receive the trigger frame and obtain the values of Spatial reuses fields of Common Info field in the trigger frame to determine whether SRP-based spatial reuse conditions are met or not.	Please clarify it		2017/1/9 9:42
7174	kaiying Lv	225	1 27.9	190	1	T	Y	190.01 27.9	SRP-based spatial reuse operation needs to be described in details.	Please clarify it		2017/1/9 9:42
7175	kaiying Lv	225	1 27.5.2.2.1	165	35	T	Y	165.35 27.5.2.2.1	The start of the Padding subfield is identified by a User Info field that has a value of the AID equal to 0XFFF,not 2047	Change "2047" to "0XFFF"		2017/1/9 9:42
7176	kaiying Lv	225	1 27.5.2.2.2	166	5	T	Y	166.05 27.5.2.2.2	"destination AP" is confusing. Need to be clarified.	Change "destination AP" to "associated AP"		2017/1/9 9:42
7177	kaiying Lv	225	1 27.5.2.2.2	165	51	T	Y	165.51 27.5.2.2.2	It is not clear to say "STAs that intend to communicate with at least two different BSSs of the multiple BSSID set "?	Change to "The MAC address of the transmitted BSSID when dot11MultiBSSIDActivated is true and the Trigger frame is directed to STAs from at least two different BSSs of the multiple BSSID set"		2017/1/9 9:42

7178	kaiying Lv	225	1 27.2.3	152	11	G	Y	152.11 27.2.3	According to 9.3.1.23,there is "User Info field" in trigger frame,not "Per User Info field".There are many places use the incorrect name of this field.	Change as comment.		2017/1/9 9:42
7179	kaiying Lv	225	1 27.5.2.2.2	166	62	E	Y	166.62 27.5.2.2.2	There is no "Multi-TID Support field"field in HE MAC Capabilities Information field of the HE Capabilities element	Change "Multi-TID Support " to "Multi-TID Aggregation Support"		2017/1/9 9:42
7180	kaiying Lv	225	1 27.5.2.2.2	167	6	T	Y	167.06 27.5.2.2.2	According to P49,Line 1:"The value in the TID Aggregation Limit subfield in Trigger frame is less than or equal to the value indicated in the Multi-TID Aggregation Support field in the HE Capabilities element ". So if a STA indicates a nonzero value in the Multi-TID Aggregation Support field, AP should choose any value between 0 and the value that STA indicated in the Multi-TID Aggregation Support field.	Change as comment.		2017/1/9 9:42
7181	kaiying Lv	225	1 27.5.2.6.1	172	35	T	Y	172.35 27.5.2.6.1	Could BQRP variant Trigger frame be used to allocate RA RU? Since BQRP frame is the same as basic trigger frame.	Please clarify it		2017/1/9 9:42
7182	kaiying Lv	225	1 27.8.1	188	45	E	Y	188.45 27.8.1	ROMI solicits an immediate acknowledgement,while TOMI should also solicit an immediate acknowledgement	Change to"The OMI initiator shall indicate a change in its transmit operating mode by including the OMI A-Control field in a QoS Data or QoS Null frame that solicits an immediate acknowledgement frame and is addressed to the OMI responder as defined in 27.8.3 (Rules for transmit operation mode (TOM) indication)"		2017/1/9 9:42
7183	kaiying Lv	225	1 27.16.3	207	6	T	Y	207.06 27.16.3	Does "STA-to-STA" here has the same meaning with what is defined in 802.11-2016 "A peer-to-peer link is defined to be either a Direct Link within a QoS BSS, a TDLS, or a STA-to-STA communication in an IBSS."	Please clarify it		2017/1/9 9:42
7184	kaiying Lv	225	1 9.4.2.200	75	2	E	Y	75.02 9.4.2.200	change"TWT broadcast field"to"broadcast field"	As in comment		2017/1/9 9:42
7185	kaiying Lv	225	1 27.2.3	152	22	T	Y	152.22 27.2.3	UL MU disable operation shall be independent from switching MU/SU EDCA parameters. Otherwise, a non-AP STA may cheat to be exempt from updating its EDCA access parameters to the values contained in the MU EDCA Parameter Set element by sending the trigger-based PPDU with an OMI A-Control field containing a value of 1 in the UL MU Disable field.	Delete note 1		2017/1/9 9:42
7186	kaiying Lv	225	1 27.2.3	152	29	G	Y	152.29 27.2.3	change"HE non-AP UL MU capable STA" to" UL MU capable non-AP	Please unify it		2017/1/9 9:42
7187	kaiying Lv	225	1 27.3.3.4	154	39	E	Y	154.39 27.3.3.4	There are no definitions about the" L3 Frag BA Request frame" and " L3 Frag BA Response ".	Please change them to "L3 Frag ADDBA Request frame" and "L3 Frag ADDBA response frame"		2017/1/9 9:42
7188	kaiying Lv	225	1 27.7.2	180	44	T	Y	180.44 27.7.2	Change "otherwise it is an implicit TWT" to "otherwise it set the Trigger field to 0 to indicate it is an implicit TWT with no trigger."	As in comment		2017/1/9 9:42
7189	kaiying Lv	225	1 27.7.3.2	184	14	T	Y	184.14 27.7.3.2	Whether a TWT is implicit or not is indicated by implicit subfield in request type field. Please change "Otherwise, it shall set the Trigger field to 0 to indicate an implicit TWT." to "otherwise it shall set the Trigger field to 0 to indicate it is an implicit TWT with no trigger."	As in comment		2017/1/9 9:42
7190	kaiying Lv	225	1 27.7.3.	185	18	E	Y	185.18 27.7.3.	There is no definition about AM	Please change "AM" to "awake state"		2017/1/9 9:42
7191	kaiying Lv	225	1 9.2.4.5.6	21	2	E	Y	21.02 9.2.4.5.6	change "non-AP HE STA" to "HE non-AP STA"	As in comment		2017/1/9 9:42
7192	kaiying Lv	225	1 9.2.4.6.4.3	24	58	E	Y	24.58 9.2.4.6.4.3	add "and /or transimition" after "in reception"	As in comment		2017/1/9 9:42
7193	kaiying Lv	225	1 9.2.4.6.4.3	24	62	E	Y	24.62 9.2.4.6.4.3	add a "HE" before non-AP	As in comment		2017/1/9 9:42
7194	kaiying Lv	225	1 10.9	127	23	E	Y	127.23 10.9	Delete "receive".	As in comment		2017/1/9 9:42
7195	kaiying Lv	225	1 27.6.2	176	56	E	Y	176.56 27.6.2	There is no definition of " Received Operating Mode Indication subfield",	Please change to "OMI A-Control field"		2017/1/9 9:42
7196	kaiying Lv	225	1 27.6.2	177	26	E	Y	177.26 27.6.2	delete "notification"	As in comment		2017/1/9 9:42
7197	kaiying Lv	225	1 27.6.2	177	33	E	Y	177.33 27.6.2	delete "notification"	As in comment		2017/1/9 9:42

7198	kaiying Lv	225	1 27.8.1	188	39	E	Y	188.39 27.8.1	There is no "RX channel width subfield"	Delete "RX"	2017/1/9 9:42
7199	kaiying Lv	225	1 27.8.2	189	1	E	Y	189.01 27.8.2	delete "mode"	As in comment	2017/1/9 9:42
7200	kaiying Lv	225	1 27.8.2	189	3	E	Y	189.03 27.8.2	delete "RX"	As in comment	2017/1/9 9:42
7201	kaiying Lv	225	1 27.8.2	189	8	E	Y	189.08 27.8.2	change "After transmitting the acknowledgement frame immediate response immediate acknowledgement for" to "After transmitting the immediate acknowledgement for"	As in comment	2017/1/9 9:42
7202	kaiying Lv	225	1 27.8.3	189	29	T	Y	189.29 27.8.3	The channel bandwidth setting should be normative. Delete "note".	As in comment	2017/1/9 9:42
7203	kaiying Lv	225	1 9.4.2.219	91	51	E	Y	91.51 9.4.2.219	delete "in the"	As in comment	2017/1/9 9:42
7204	kaiying Lv	225	1 27.14.2	200	6	T	Y	200.06 27.14.2	the figure27-7 is not clear	Please re-draw it	2017/1/9 9:42
7205	kaiying Lv	225	1 9.4.1.62	57	33	E	Y	57.33 9.4.1.62	change " VHT Compressed Beamforming report" to "HE Compressed Beamforming report"	As in comment	2017/1/9 9:42
7206	kaiying Lv	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	the description of the Sounding Dialog Token Number field in table 9-76a is wrong.	change it to" The sounding dialog token from the HE NDP Announcement frame soliciting feedback"	2017/1/9 9:42
7207	kaiying Lv	225	1 9.6.28.2	103	4	E	Y	103.04 9.6.28.2	change "And" to "and"	As in comment	2017/1/9 9:42
7208	kaiying Lv	225	1 9.4.2.200	71	4	T	Y	71.04 9.4.2.200	the description about " Demand TWT" is incorrect.	please clarify it	2017/1/9 9:42
7209	kaiying Lv	225	1 10.43.1	139	37	T	Y	139.37 10.43.1	The description of TWT conditions after the completion of the exchange in Table 10-19a is conflict. "An active broadcast TWT agreement is either created ...The responding STA will not create any new broadcast TWT agreement with the requester at this time"	Suggest to change to "An active broadcast TWT agreement has already exists and is using the TWT parameters identified in the response frame, including a broadcast TWT ID.The responding STA will not create any new broadcast TWT agreement with the requester at this time"	2017/1/9 9:42
7210	kaiying Lv	225	1 10.43.1	139	9	T	Y	139.09 10.43.1	The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA. In Table 10-19a, the response frame transmitted by the scheduling STA or responding STA should set Wake TBTT Negotiation subfield to 0	Suggest to change to "Accept TWT with Wake TBTT Negotiation subfield = 0 and Broadcast subfield = 1"	2017/1/9 9:42
7211	kaiying Lv	225	1 10.43.1	139	15	T	Y	139.15 10.43.1	The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA.	suggest to change to "Accept TWT with Wake TBTT Negotiation subfield = 0 and Broadcast subfield = 1"	2017/1/9 9:42
7212	kaiying Lv	225	1 10.43.1	139	22	T	Y	139.22 10.43.1	The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA. In table 10-19a, change the setting of the above field in TWT elements sent by scheduling or responding STA.	suggest to change to "Alternate TWT Wake TBTT Negotiation subfield = 0 and Broadcast subfield = 1"	2017/1/9 9:42
7213	kaiying Lv	225	1 10.43.1	140	14	T	Y	140.14 10.43.1	The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA. In table 10-19a, change the setting of the above field in TWT elements sent by scheduling or responding STA.	suggest to change to "Reject TWT with Wake TBTT Negotiation subfield = 1 and Broadcast subfield = 1"	2017/1/9 9:42
7214	kaiying Lv	225	1 10.43.1	140	23	T	Y	140.23 10.43.1	The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA. In table 10-19a, the Wake TBTT Negotiation subfield in reject TWT sent by scheduling STA should be set to 0.	suggest to change to "Reject TWT with Wake TBTT Negotiation subfield = 0 and Broadcast subfield = 1"	2017/1/9 9:42
7215	kaiying Lv	225	1 10.43.1	140	6	T	Y	140.06 10.43.1	change "TWT flow ID" to "broadcast TWT ID"	As in comment	2017/1/9 9:42
7216	Katsuo Yunoki	225	1 3.2	6	45	E	Y	6.45 3.2	It may need HE STA too for the transmitting STA.	Add "or HE STA" after VHT STA	2017/1/9 9:42
7217	Katsuo Yunoki	225	1 28.1.1	211	49	T	Y	211.49 28.1.1	UL-OFDMA is described as a mandatory feature for an HE non-AP STA here. But line 9 in page 212 seems to describe transmission of an HE MU PPDU over partial PPDU bandwidth as an option. Aren't they conflicted?	Mandatory/option of UL-OFDMA should be confirmed for an HE non-AP STA.	2017/1/9 9:42

7218	Katsuo Yunoki	225	1 28.1.1	212	9	T	Y	212.09 28.1.1	Transmission of an HE MU PPDU over partial PPDU bandwidth is described as an option for an HE non-AP STA. But line 49 in page 211 seems to describe as a mandatory feature. Aren't they conflicted?	Mandatory/option of UL-OFDMA should be confirmed for an HE non-AP STA.	2017/1/9 9:42
7219	Katsuo Yunoki	225	1 28.1.1	211	54	E	Y	211.54 28.1.1	The following sentence is not clear for me.: The maximum number of spatial streams per user the non-AP STA can receive in the DL MU-MIMO transmission shall be equal to the minimum of 4	It should be: The maximum number of spatial streams per user the non-AP STA can receive in the DL MU-MIMO transmission shall be 4	2017/1/9 9:42
7220	Katsuo Yunoki	225	1 28.3.5	249	10	E	Y	249.10 28.3.5	Connecting point of line for spatial mapping on background is wrong.	It should be corrected.	2017/1/9 9:42
7221	Katsuo Yunoki	225	1 28.3.7	256	7	G	Y	256.07 28.3.7	In the Trigger frame, HE-MCS is identified for in the User Info field. The description (line 65 in page 46) is refering to this subclause. But it isn't mentioned on Trigger frame in this subclause.	It is better to add something like the following: And also in the User Info field of Trigger frame, MCS is indicated for the HE trigger-based PPDU response for the responding STA.	2017/1/9 9:42
7222	Katsuo Yunoki	225	1 3.4	7	5	G	Y	7.05 3.4	BQRP, BSRP and RAPS should be added as abbribiations	BQRP, BSRP and RAPS should be added to Abbribiations	2017/1/9 9:42
7223	Katsuo Yunoki	225	1 9.4.2.220	93	26	E	Y	93.26 9.4.2.220	There is a spelling misstake in the Figure 9-589ct.	"Lenght" should be "Length".	2017/1/9 9:42
7224	Katsuo Yunoki	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	Space between sentences is missing.	Substitute "0. If" for "0If".	2017/1/9 9:42
7225	Katsuo Yunoki	225	1 10.3.2.10.3	120	7	E	Y	120.07 10.3.2.10.3	Space between sentences is missing.	Insert " "(space) in "medium.Specifically,"	2017/1/9 9:42
7226	Katsuo Yunoki	225	1 27.5.1	162	36	T	Y	162.36 27.5.1	STA behavior after receiving MU DL PPDU should be explained. (e.g. how to respond ACK, Block ACK) TBD is remaining.	STA behavior after receiving MU DL PPDU should be explained. (e.g. how to respond ACK, Block ACK) STA behavior should be identified if it isn't associated with AP.	2017/1/9 9:42
7227	Katsuo Yunoki	225	1 27.5.2.3	167	59	G	Y	167.59 27.5.2.3			2017/1/9 9:42
7228	Katsuo Yunoki	225	1 3.4	7	5	G	Y	7.05 3.4	TWT should be added as abbribiation.	TWT should be added to Abbribiations	2017/1/9 9:42
7229	Kazuyuki Sakoda	225	1 27.9	190	1	T	Y	190.01 27.9	Subclause 27.9 Spatial reuse operation requires more discussion and addition of appropriate mechanisms. The aim of 802.11ax is to get higher performance in dense environment. Obviously, OBSS management is a key element to meet the goal. We are adding more than billions of new pre-HE 802.11 devices to the market per year, and need more serious consideration how to cope with non-HE OBSS issues. Also, we see non 802.11 technology in 2.4 GHz, and will probably see non 802.11 technology in 5GHz bands at the time of HE STA launch. 802.11ax spatial reuse technology shall be able to handle non-HE and non-802.11 overlapping operations in efficient way, which are missing in the D1.0.	1. Classify spatial reuse technologies into the following manner: (a) spatial reuse among non-802.11 networks, (b) spatial reuse among non-HE OBSSs, (c) spatial reuse among HE OBSSs. 2. Define adaptive CCA-ED rules as a resolution to (a). Change primary channel ED threshold for CCA to be flexible, and change supplementary channel ED threshold (mid packet detect) for CCA to be flexible. 3. Define adaptive CCA-SD rules as a resolution to (b). Change preamble detection threshold for CCA to be flexible as the currently defined minimal sensitivity is too sensitive for dense environment. Suggested text in 11-16/310r1 should be a good starting point for the rule. 4. Refine color code based CCA rules as a resolution to (c).	2017/1/9 9:42
7230	Kazuyuki Sakoda	225	1 27.9	190	1	T	Y	190.01 27.9	Transmit power control (TPC) works well to reduce OBSS interference, i.e., minimize interfere from an HE STA to others. Subclause 27.9.2.2 (Adjustment of OBSS_PD and transmit power) describes how HE STA can increase OBSS_PD level by decreasing its TX power. It is a nice incentive for STA to decrease its TX power. OBSS_PD only works with HE STAs. However, it only works with legacy STAs with limited circumstances. This means STAs cannot truely enjoy effect of 802.11ax spatial reuse until legacy BSSs and STAs are wiped out from the market. There are very large number of legacy STA installed based, and we still see large number of legacy STA (even non-VHT STA) shipment to the market.	Add new subclause under 27.9 describing spatial reuse TPC rule following the spirit of linking CCA threshold (ED-based CCA and SD-based CCA) and transmission power, as spelled out for OBSS PD.	2017/1/9 9:42

7231	Kazuyuki Sakoda	225	1 28.3.18	350	1	T	Y	350.01 28.3.18	In subclause 28.3.14.2 (Power pre-correction), sentence reads "An AP indicates in the AP Tx Power subfield of the Common Info field in Trigger frame the combined transmit power of all the transmit antennas used to transmit the Trigger frame normalized to 20 MHz bandwidth." There should be accuracy requirements for the "the combined transmit power of all the transmit antennas". However, I could not find it.	Add a suclause under 28.3.18 describing transmit power accuracy requirement for AP.		2017/1/9 9:42
7232	Kazuyuki Sakoda	225	1 27.2.1	149	46	T	Y	149.46 27.2.1	Looking through subclause 27.2.2 (updating two NAVs), there is no need to distinguish inter-BSS frame, as both inter-BSS frame and frame that cannot be identified as intra-BSS or inter-BSS are reflected to basic NAV.	Remove inter-BSS frame recognition, and clean up the description.		2017/1/9 9:42
7233	Kazuyuki Sakoda	225	1 27.2.2	151	57	T	Y	151.57 27.2.2	In subclause 27.2.2 (Updating two NAVs), a sentence reads "Maintaining two NAV is beneficial in dense deployment scenarios where a STA requires protection from frames transmitted by STAs within its BSS, i.e., intra-BSS, and avoid interference from frames transmitted by STAs in neighboring BSS, i.e., inter-BSS". I could find how to set inter-BSS NAV in D1.0. However, I could not find how the inter-BSS NAV is used to control channel access.	Add a new subclause under 27.2 describing how these 2 NAVs are used to control channel access.		2017/1/9 9:42
7234	KE YAO	225	1 28.3.10.2.1	268	2	T	Y	268.02 28.3.10.2.1	When the TXVECTOR parameter BEAM_CHANGE is 0, the cyclic shift value for the L-STF, L-LTF,L-SIG, RL-SIG, and HE-SIG-A fields should be T_{CS,HE} as specified in 28.3.10.2.2.	Change "When the TXVECTOR parameter BEAM_CHANGE is 0, the cyclic shift value for the L-STF, L-LTF, L-SIG, RL-SIG, and HE-SIG-A fields is not specified"to "When the TXVECTOR parameter BEAM_CHANGE is 0, the cyclic shift value for the L-STF, L-LTF, L-SIG, RL-SIG, and HE-SIG-A fields is T_{CS_HE} as specified in 28.3.10.2.2"		2017/1/9 9:42
7235	KE YAO	225	1 28.3.3.2	229	35	E	Y	229.35 28.3.3.2	Both "none" and "N/A" are used in table 28-2 and 28-6, though they mean the same thing.	change "none" in table 28-6 to "N/A" as in table "28-2".		2017/1/9 9:42
7236	KE YAO	225	1 28.3.10.7.2	275	34	T	Y	275.34 28.3.10.7.2	Doppler bit exits in HE-SIG-A, while how to use this bit is not specified.	A resolution to this comment will be provided.		2017/1/9 9:42
7237	KE YAO	225	1 28.3.3.5	237	57	T	Y	237.57 28.3.3.5	The supporting of 242 tones RU in secondary channels of 40/80/160/80+80 DL OFDMA implies that a 20MHz operating STA possibly needs to receive individually signaling and data over different 20MHz channels. While that's not realistic for a 20 MHz device with consideration of the very short switching time and the resulting cost.	242-tones in secondary channels shall not be allocated to 20 operating STAs in 40/80/160/80+80 DL OFDMA		2017/1/9 9:42
7238	KE YAO	225	1 28.3.3.2	232	34	T	Y	232.34 28.3.3.2	242-tone RU can be allocated to both SU and MU-MIMO, not only SU	remove 'SU'		2017/1/9 9:42
7239	KE YAO	225	1 28.3.3.2	233	26	T	Y	233.26 28.3.3.2	484-tone RU can be allocated to both SU and MU-MIMO, not only SU	remove 'SU'		2017/1/9 9:42
7240	KE YAO	225	1 28.3.3.2	234	30	T	Y	234.30 28.3.3.2	996-tone RU can be allocated to both SU and MU-MIMO, not only SU	remove 'SU'		2017/1/9 9:42
7241	KE YAO	225	1 28.3.9	264	3	E	Y	264.03 28.3.9	change SR in 'NSR' into subscript	as in comment		2017/1/9 9:42
7242	KE YAO	225	1 28.3.10.7.2	273	48	T	Y	273.48 28.3.10.7.2	rename right 106-tone RU to high 106-tone RU	refer to comment		2017/1/9 9:42
7243	KE YAO	225	1 28.3.10.7.2	274	26	T	Y	274.26 28.3.10.7.2	rename right 106-tone RU to high 106-tone RU	refer to comment		2017/1/9 9:42
7244	Kentaro Taniguchi	225	1 28.5	375	9	T	Y	375.09 28.5	The N_DBPS value for MCS0 should be N_CBPS x R = 96 x (1/2) = 48.	Change the N_DBPS value "24" to "48" in Tables 28-50.		2017/1/9 9:42
7245	Kentaro Taniguchi	225	1 28.5	382	55	T	Y	382.55 28.5	The N_DBPS value for MCS6 should be N_CBPS x R = 1836 x (3/4) = 1377.	Change the N_DBPS value "1337" to "1377" in Tables 28-65.		2017/1/9 9:42
7246	Kentaro Taniguchi	225	1 28.5	382	61	T	Y	382.61 28.5	The N_DBPS value for MCS9 should be N_CBPS x R = 2448 x (5/6) = 2040.	Change the N_DBPS value "2048" to "2040" in Tables 28-65.		2017/1/9 9:42

7247	Kiseon Ryu	225	1 27.8.2	189	1	T	Y	189.01 27.8.2	The text "If an OMI mode change is reported during a TXOP then the change should occur at least after that TXOP." is not clear whether OMI mode is changed right after the TXOP or later.	Delete "at least".	2017/1/9 9:42
7248	Kiseon Ryu	225	1 21.3.18.5.2	148	1	T	Y	148.01 21.3.18.5.2	For UL MU transmission, CCA-ED should be conducted not only for the primary 20MHz channel and secondary 20MHz/40MHz/80MHz channel but also for the non-primary 20MHz channel.	Add the following text: 21.3.18.5.2 CCA sensitivity for operating classes requiring CCA-ED Change as follows: CCA-ED shall detect a channel busy condition when the received signal strength exceeds the CCA-ED threshold as given by dot11OFDMEDThreshold for the primary 20 MHz channel, dot11OFDMEDThreshold for the secondary 20 MHz channel (if present), dot11OFDMEDThreshold + 3 dB for the secondary 40 MHz channel (if present), and dot11OFDMEDThreshold + 6 dB for the secondary 80 MHz channel (if present). The CCA-ED thresholds for the operating classes requiring CCA-ED are subject to the criteria in D.2.5. For UL MU transmission in response to a Trigger frame, CCA-ED shall detect a channel busy condition when the received signal strength exceeds the CCA-ED threshold	2017/1/9 9:42
7249	Kiseon Ryu	225	1 9.2.4.6.4.3	24	58	T	Y	24.58 9.2.4.6.4.3	Channel Width subfield in Operating Mode A-Control field indicates the channel width of the STA not only for ROM but also for TOM.	Modify the text as below: The Channel Width subfield indicates the operating channel width supported by the STA in transmission and reception, and is set to 0 for 20 MHz, 1 for 40 MHz, 2 for 80 MHz, and 3 for 160 MHz and 80+80 MHz.	2017/1/9 9:42
7250	Kiseon Ryu	225	1 27.5.2.5	172	10	T	Y	172.10 27.5.2.5	When a STA sends a QoS Null frame for BSR in random RU, it needs to confirm that the frame is successfully received at the AP. If it fails, the STA may perfom the retransmission procedure for random access.	Modify the text as below: An AP can also solicit one or more non-AP STAs for their BSR(s) by sending a BSRP variant Trigger frame (see 9.3.1.23 (Trigger frame format)). The non-AP STA responds (solicited BSR) as defined below: ... - The STA shall include in the HE trigger-based PPDU one or more QoS Null frames containing one or more of the following: ... - The HE STA shall not solicit an immediate response for the frames carried in the HE trigger-based PPDU (e.g., by setting the Ack Policy subfield of the frame to Normal Ack or Implicit BAR) except that it sends one or more QoS Null frames in the HE trigger-based PPDU in a random RU.	2017/1/9 9:42
7251	Kiseon Ryu	225	1 27.10.4	195	4	T	Y	195.04 27.10.4	Based on the multi-TID A-MPDU aggregation rule, a STA may not report the buffer status information for lower priority AC in an A-MPDU. QoS Null frame with BSR information should be able to be aggregated in a multi-TID A-MPDU regardless of AC priority.	As in the comment	2017/1/9 9:42
7252	Kiseon Ryu	225	1 27.5.2.2.2	166	56	T	Y	166.56 27.5.2.2.2	QoS Data frame or QoS Null frame with Ack Policy 'No Ack' can be aggregated regardless of the TID Aggregation Limit	As in the comment	2017/1/9 9:42

7253	Kiseon Ryu	225	1 10.9	127	47	T	Y	127.47 10.9	HE A-Control field can be present in the QoS Null frame.	Modify the text as below: At most one Control subfield with a given Control ID value shall be present in the A-Control field of QoS Data frame, QoS Null frame, or Management frames carried in an (A-)MPDU	2017/1/9 9:42
7254	Kiseon Ryu	225	1 27.5.2.6.2	173	64	T	Y	173.64 27.5.2.6.2	Acknowledgment procedure in response to the OFDMA random access request from unassociated STAs needs to be specified.	As in the comment	2017/1/9 9:42
7255	Kiseon Ryu	225	1 9.3.1.23.1	49	11	T	Y	49.11 9.3.1.23.1	It's not clear how to construct an A-MPDU in the HE trigger-based PPDU when the Multi-TID Aggregation Support field of the HE Capabilities element is set to 0. For that case, MPDU aggregation in an A-MPDU according to the Preferred AC subfield in the Basic Trigger frame should be clarified.	Modify the text as below: The Preferred AC subfield indicates the AC that is recommended for aggregation of MPDUs of ACs belonging to the same AC as indicated or higher priority AC(s) within a multi-TID A-MPDU sent as a response to the Trigger frame (see 9.3.1.23 (Trigger frame format)). The encoding of the Preferred AC subfield is shown in Table 9-25i (Preferred AC subfield encoding). If the TID Aggregation Limit subfield is set to 1, the MPDUs with a TID belonging to the same AC as indicated in the Preferred AC subfield should be aggregated in the A-MPDU. If the TID Aggregation Limit subfield is set to 1 and there is no MPDU with a TID belonging to the same AC as indicated in the Preferred AC subfield, MPDUs with a TID belonging to the higher priority AC may be aggregated in the A-MPDU.	2017/1/9 9:42
7256	Kwok Shum Au	225	1 9.3.1.23	46	29	E	N	46.29 9.3.1.23	The description "BW bits" is not precise.	Replace "depends on the BW bits" with "depends on the BW subfield".	2017/1/9 9:42
7257	Kwok Shum Au	225	1 9.3.1.23	47	4	E	N	47.04 9.3.1.23	The proposition between "A value" and "0" is missing.	Replace "A value 0" with "A value of 0".	2017/1/9 9:42
7258	Kwok Shum Au	225	1 9.3.1.23	47	5	E	N	47.05 9.3.1.23	There is a grammatical mistake for "is not be used".	Replace "is not be used" with "is not used".	2017/1/9 9:42
7259	Kwok Shum Au	225	1 9.3.1.23	47	35	T	Y	47.35 9.3.1.23	For the description "Values 0 to 90 maps to -100 dBm to -20 dBm", it means that there are 92 values mapping to 81 target RSSI levels. Given the resolution for the Targer RSSI subfield is 1 dB, this mapping is not correct.	Please fix the mapping by adjusting the target RSSI levels correctly.	2017/1/9 9:42
7260	Kwok Shum Au	225	1 9.3.1.23	47	47	E	N	47.47 9.3.1.23	The description "the rest bits" is not clear.	Replace "the rest bits" with "the remaining bits".	2017/1/9 9:42
7261	Kwok Shum Au	225	1 9.3.1.23	47	55	T	Y	47.55 9.3.1.23	The variable "N_{DBPS}" is not defined.	In line 60, insert the following: "N_{DBPS} is defined in Table 28-12".	2017/1/9 9:42
7262	Kwok Shum Au	225	1 9.3.1.23	47	61	E	N	47.61 9.3.1.23	Capitalization is not needed for "TF MAC Padding Duration".	In 47.61, 47.63, 47.65, 48.10, 48.12, and 48.14, replace "TF MAC Padding Duration" with "TF MAC padding duration".	2017/1/9 9:42
7263	Kwok Shum Au	225	1 9.3.1.23	48	4	T	Y	48.04 9.3.1.23	The variable "N_{DBPS,SHORT}" is not defined.	In line 10, insert the following: "N_{DBPS,SHORT} is defined in equation (28-61)".	2017/1/9 9:42
7264	Kwok Shum Au	225	1 9.3.1.23	48	17	E	N	48.17 9.3.1.23	Capitalization is not needed for "Frame".	Replace "Trigger Frame transmission" with "Trigger frame transmission".	2017/1/9 9:42
7265	Kwok Shum Au	225	1 9.3.1.23.1	48	41	G	Y	48.41 9.3.1.23.1	There is no Table 8-159.	Replace Table 8-159 with Table 9-163 (Subfields of the A-MPDU Parameters field).	2017/1/9 9:42
7266	Kwok Shum Au	225	1 9.3.1.23.2	49	54	E	N	49.54 9.3.1.23.2	The description is about a feedback report rather than a feedback report field.	In 49.54, 57.51 and 59.22, replace "HE Compressed Beamforming report" with "HE compressed beamforming report".	2017/1/9 9:42
7267	Kwok Shum Au	225	1 9.3.1.23.4	50	28	G	Y	50.28 9.3.1.23.4	The description about the TA field is not a note. It should be a main text.	Change the note to main text for the sentence "The TA field value is the address of the STA transmitting the MU-RTS frame".	2017/1/9 9:42
7268	Kwok Shum Au	225	1 9.3.1.23.4	50	40	E	N	50.40 9.3.1.23.4	The correct subfield name is "MU-MIMO LTF Mode" rather than "MU MIMO LTF Mode".	Replace "MU MIMO LTF Mode" with "MU-MIMO LTF Mode".	2017/1/9 9:42
7269	Kwok Shum Au	225	1 9.3.1.23.4	50	40	E	N	50.40 9.3.1.23.4	The correct subfield name is "Number Of HE-LTF Symbols" rather than "Number of LTF".	Replace "Number of LTFs" with "Number Of HE-LTF Symbols".	2017/1/9 9:42
7270	Kwok Shum Au	225	1 9.3.1.23.4	50	41	E	N	50.41 9.3.1.23.4	The description is about the subfields of the Common Info field.	Replace "fields are reserved" with "subfields are reserved".	2017/1/9 9:42

7271 Kwok Shum Au	225	1 9.3.1.23.4	50	41	T	Y	50.41 9.3.1.23.4	In the Common Info field, there is a Doppler subfield. There is no description here on wheher the Doppler field is reserved or set to a particular value.	Add the description about the Doppler subfield.	2017/1/9 9:42
7272 Kwok Shum Au	225	1 9.3.1.23.4	50	43	G	Y	50.43 9.3.1.23.4	The description about the Trigger Dependent Common Info field is not a note. It should be a main text.	Change the note to main text for the sentence "The Trigger Dependent Common Info field is not present in the MU-RTS frame".	2017/1/9 9:42
7273 Kwok Shum Au	225	1 9.3.1.23.4	50	57	T	Y	50.57 9.3.1.23.4	The description "primary 20 MHz/40 MHz/80 MHz" is not clear.	Replace "primary 20 MHz/40 MHz/80 MHz" with "primary 20 MHz, 40 MHz and 80 MHz channels".	2017/1/9 9:42
7274 Kwok Shum Au	225	1 9.3.1.23.4	51	12	T	Y	51.12 9.3.1.23.4	There is no "Bandwidth field" in the User Info field.	Replace "Bandwidth field" with "BW subfield".	2017/1/9 9:42
7275 Kwok Shum Au	225	1 9.3.1.23.4	51	15	G	Y	51.15 9.3.1.23.4	The description about the Trigger Dependent User Info field is not a note. It should be a main text.	Change the note to main text for the sentence "The Trigger Dependent User Info field is not present in the MU-RTS frame".	2017/1/9 9:42
7276 Kwok Shum Au	225	1 9.3.3.1	52	43	E	N	52.43 9.3.3.1	Hyphen is not needed for "present".	In 52.43, 53,36, 54.30, and 55.26, replace "pre-sent" with "present".	2017/1/9 9:42
7277 Kwok Shum Au	225	1 9.3.3.6	53	24	T	Y	53.24 9.3.3.6	There is no "TWT Requester Supported field".	In 53.24 and 54.18, replace "TWT Requester Supported field" with "TWT Requester Support field".	2017/1/9 9:42
7278 Kwok Shum Au	225	1 3.2	4	39	E	N	4.39 3.2	There is no "HE (HE) STA".	Replace "HE (HE) STA" with "HE STA".	2017/1/9 9:42
7279 Kwok Shum Au	225	1 3.2	4	53	E	N	4.53 3.2	Replace "One of the following:" with "One of the following PPDUs" for the sake of consistency with other termins in this subclause.	In 4.53 and 5.29, replace "One of the following:" with "One of the following PPDUs".	2017/1/9 9:42
7280 Kwok Shum Au	225	1 3.2	5	9	E	N	5.09 3.2	There is a duplicate "l)" at the beginning of the sentence.	Delete "l)" before "An 80 MHz ...".	2017/1/9 9:42
7281 Kwok Shum Au	225	1 3.2	5	9	E	N	5.09 3.2	The abbreviation VHT is already defined in item a).	Replace "An 80 MHz very high throughput (VHT) PPDU" with "An 80 MHz VHT PPDU".	2017/1/9 9:42
7282 Kwok Shum Au	225	1 3.2	5	13	E	N	5.13 3.2	There is a duplicate "g)" at the beginning of the sentence.	Delete "g)" before "An 80 MHz ...".	2017/1/9 9:42
7283 Kwok Shum Au	225	1 3.2	5	13	E	N	5.13 3.2	The abbreviation non-HT is already defined in item b).	Replace "An 80 MHz non-high throughput (non-HT) duplicate" with "An 80 MHz non-HT duplicate".	2017/1/9 9:42
7284 Kwok Shum Au	225	1 3.2	5	54	E	N	5.54 3.2	The abbreviation VHT is already defined in item a).	Replace "A 160 MHz very high throughput (VHT) PPDU" with "A 160 MHz VHT PPDU".	2017/1/9 9:42
7285 Kwok Shum Au	225	1 3.2	5	58	E	N	5.58 3.2	The abbreviation non-HT is already defined in item b).	Replace "A 160 MHz non-high throughput (non-HT) duplicate" with "A 160 MHz non-HT duplicate".	2017/1/9 9:42
7286 Kwok Shum Au	225	1 3.2	6	3	E	N	6.03 3.2	The opening and closing brackets are not needed.	Replace "(TXVECTOR parameter CH_BANDWIDTH equal to CBW160)" with "TXVECTOR parameter CH_BANDWIDTH equal to CBW160".	2017/1/9 9:42
7287 Kwok Shum Au	225	1 3.2	6	37	E	N	6.37 3.2	The opening and closing brackets are not needed.	Replace "(TXVECTOR parameter CH_BANDWIDTH equal to CBW80+80)" with "TXVECTOR parameter CH_BANDWIDTH equal to CBW80+80".	2017/1/9 9:42
7288 Kwok Shum Au	225	1 3.2	6	50	G	Y	6.50 3.2	The abbrevation HE stands for high efficiency, not high efficient.	Replace "high efficient (HE) dual beacon" with "high efficiency (HE) dual beacon".	2017/1/9 9:42
7289 Kwok Shum Au	225	1 3.2	6	56	E	N	6.56 3.2	The abbreviation RU is not defined in this definition yet.	Replace "242-tone RU" with "242-tone resource unit (RU)".	2017/1/9 9:42
7290 Kwok Shum Au	225	1 4.3.14a	9	21	T	Y	9.21 4.3.14a	Chapter 4 provides a general description of the wireless system.. It should be written in a declarative but not normative language. Thus, "shall" should not be appeared in the sentence.	Replace "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" with "Mandatory support for operation in 20 MHz channel bandwidth only by an HE non-AP STA".	2017/1/9 9:42
7291 Kwok Shum Au	225	1 4.3.14a	9	26	T	Y	9.26 4.3.14a	Chapter 4 provides a general description of the wireless system.. It should be written in a declarative but not normative language. Thus, "shall" should not be appeared in the sentence.	Replace "An HE non-AP STA shall support operation in 20 MHz channel bandwidth only" with "Mandatory support for operation in 20 MHz channel bandwidth only by an HE non-AP STA".	2017/1/9 9:42
7292 Kwok Shum Au	225	1 4.3.14a	9	51	E	N	9.51 4.3.14a	The fullstop is not needed.	Delete the fullstop.	2017/1/9 9:42
7293 Kwok Shum Au	225	1 4.3.14a	9	65	T	Y	9.65 4.3.14a	Chapter 4 provides a general description of the wireless system.. It should be written in a declarative but not normative language. Thus, "may" should not be appeared in the sentence.	Replace "may be set" with "is allowed to set".	2017/1/9 9:42

7294	Kwok Shum Au	225	1 6.3.3.3.2	11	41	T	Y	11.41 6.3.3.3.2	Is the service primitive "HE Operation" always present?	If "HE Operation" is not present, replace "The parameter is present if dot11HEOptionImplemented is true" with "The parameter is present if dot11HEOptionImplemented is true; otherwise, this parameter is not present".	2017/1/9 9:42
7295	Kwok Shum Au	225	1 8.3.5.2.2	15	35	E	N	15.35 8.3.5.2.2	The closing bracket is missing.	Replace "(obtained from ... parameters is present" with "(obtained from ... parameters) is present".	2017/1/9 9:42
7296	Kwok Shum Au	225	1 8.3.5.12.2	16	43	T	Y	16.43 8.3.5.12.2	Is the sentence "Indicates that the secondary 40 MHz channel is busy according to the rules specified in 21.3.18.5.4" applied to HE STA too?	If no, then change the sentence to "In a VHT STA, indicates that the secondary 40 MHz channel is busy according to the rules specified in 21.3.18.5.4".	2017/1/9 9:42
7297	Kwok Shum Au	225	1 8.3.5.12.2	16	53	T	Y	16.53 8.3.5.12.2	Is the sentence "Indicates that the secondary 80 MHz channel is busy according to the rules specified in 21.3.18.5.4" applied to HE STA too?	If no, then change the sentence to "In a VHT STA, indicates that the secondary 80 MHz channel is busy according to the rules specified in 21.3.18.5.4".	2017/1/9 9:42
7298	Kwok Shum Au	225	1 9.4.2.1.8	19	41	T	Y	19.41 9.4.2.1.8	The description "in the QoS Info field of frames it transmits" is not clear.	Replace "in the QoS Info field of frames it transmits" with "in the QoS Capability element it transmits".	2017/1/9 9:42
7299	Kwok Shum Au	225	1 9.2.4.5.4	20	46	E	N	20.46 9.2.4.5.4	The capitalization for "Trigger-based" is not needed.	Replace "an HE Trigger-based PPDU" with "an HE trigger-based PPDU".	2017/1/9 9:42
7300	Kwok Shum Au	225	1 9.2.4.6.4.2	23	60	E	N	23.60 9.2.4.6.4.2	The proposition between "the number of OFDM symbols" and "the Data field" is missing.	Replace "the number of OFDM symbols the Data field" with "the number of OFDM symbols in the Data field".	2017/1/9 9:42
7301	Kwok Shum Au	225	1 9.2.4.6.4.2	24	24	E	N	24.24 9.2.4.6.4.2	The meaning of "cannot" and "can not" can be different.	Replace "can not" with "cannot".	2017/1/9 9:42
7302	Kwok Shum Au	225	1 9.2.4.6.4.5	26	15	T	Y	26.15 9.2.4.6.4.5	There is no "AC Bitmap subfield".	In 26.15 and 26.41, replace "AC Bitmap subfield" with "ACI bitmap subfield".	2017/1/9 9:42
7303	Kwok Shum Au	225	1 9.2.4.6.4.5	26	40	T	Y	26.40 9.2.4.6.4.5	The symbol F_{Val} is defined as the value of the DL TX Power subfield in subclause 9.2.4.6.4.2.	Replace F_{Val} with another symbol to avoid double definition.	2017/1/9 9:42
7304	Kwok Shum Au	225	1 9.2.4.6.4.5	27	2	E	N	27.02 9.2.4.6.4.5	SF is a variable.	Italicize SF.	2017/1/9 9:42
7305	Kwok Shum Au	225	1 9.2.4.6.4.5	27	12	G	Y	27.12 9.2.4.6.4.5	The reference to subclause 10.9 is not appropriate.	Replace subclause 10.9 with subclause 10.13.1.	2017/1/9 9:42
7306	Kwok Shum Au	225	1 9.2.4.6.4.6	27	19	E	N	27.19 9.2.4.6.4.6	The closing bracket is missing.	Replace "(see 26.3.13.2 (Power pre-correction)" with "(see 26.3.13.2 (Power pre-correction))".	2017/1/9 9:42
7307	Kwok Shum Au	225	1 9.2.4.6.4.7	27	45	E	N	27.45 9.2.4.6.4.7	The capitalization for "Bandwidth Query Report" and "Bandwidth Query report" are not needed.	Replace "contains the Bandwidth Query Report used for Bandwidth Query report operation" with "contains the bandwidth query report used for bandwidth query report operation".	2017/1/9 9:42
7308	Kwok Shum Au	225	1 9.2.4.6.4.7	27	64	E	N	27.64 9.2.4.6.4.7	The sentence is redundant because it is already covered in lines 45-47.	Delete the sentence in lines 64-65.	2017/1/9 9:42
7309	Kwok Shum Au	225	1 9.3.1.9.1	34	10	G	Y	34.10 9.3.1.9.1	There are 7 reserved bits. In the figure, the starting bit of the Reserved field is not correct.	Replace "B6" with "B5".	2017/1/9 9:42
7310	Kwok Shum Au	225	1 9.3.1.9.3	36	28	E	N	36.28 9.3.1.9.3	The term "octets" is not needed in lines 28, 32, 36 and 40 because it is already indicated in line 26 that the unit of Block Ack Bitmap subfield length is octets.	Delete "octets" in lines 28, 32, 36 and 40.	2017/1/9 9:42
7311	Kwok Shum Au	225	1 9.3.1.9.7	38	33	T	Y	38.33 9.3.1.9.7	The description is about MU-BAR frame rather than BAR frame.	Replace "BAR frame" with "MU-BAR frame".	2017/1/9 9:42
7312	Kwok Shum Au	225	1 9.3.1.9.7	38	54	T	Y	38.54 9.3.1.9.7	The description here is about Block Ack Bitmap rather than N/A.	Replace "N/A" with "Block Ack Bitmap".	2017/1/9 9:42
7313	Kwok Shum Au	225	1 9.3.1.9.7	39	14	E	N	39.14 9.3.1.9.7	The term "octets" is not needed in lines 14, 16, 18, 20, 21, 23, 25, and 27 because it is already indicated in line 26 that the unit of Block Ack Bitmap subfield length is octets.	Delete "octets" in lines 14, 16, 18, 20, 21, 23, 25, and 27.	2017/1/9 9:42
7314	Kwok Shum Au	225	1 9.3.1.9.7	39	36	T	Y	39.36 9.3.1.9.7	For the paragraph in lines 36-46, there is no description that the Block Ack Bitmap subfield is used to indicate the receive status of up to 64, 128, 256, and 32 MSDUs and A-MSDUs.	Add description that the Block Ack Bitmap subfield is used to indicate the receive status of up to 64, 128, 256, and 32 MSDUs and A-MSDUs.	2017/1/9 9:42
7315	Kwok Shum Au	225	1 9.3.1.20	40	7	E	N	40.07 9.3.1.20	There are mutliple STA Info fields in Figure 9-51a.	Replace "multiple STA info field" with "multiple STA info fields".	2017/1/9 9:42
7316	Kwok Shum Au	225	1 9.3.1.20	41	8	E	N	41.08 9.3.1.20	There is no "Feedback Type + Ng" subfield".	Replace "Feedback Type + Ng + codebook size" with "Feedback type and Ng + codebook size".	2017/1/9 9:42

7317 Kwok Shum Au	225	1 9.3.1.20	41	19	E	N	41.19 9.3.1.20	What is "MU+Ng4"? In the previous 4 entries for 000, 001, 010 and 011, comma rather than plus sign is used. Please be consistent!	In line 19, replace "MU+Ng4" with "MU, Ng4". In line 21, replace "MU+Ng4" with "MU, Ng4". In line 25, replace "MU+Ng16" with "MU, Ng16".	2017/1/9 9:42
7318 Kwok Shum Au	225	1 9.3.1.20	41	28	E	N	41.28 9.3.1.20	The meaning of "it's" and "its" are different.	Replace "it's AID" with "its AID".	2017/1/9 9:42
7319 Kwok Shum Au	225	1 9.3.1.20	41	29	E	N	41.29 9.3.1.20	HE STA STA Info is a subfield.	Replace "HE STA Info" with "HE STA Info subfield".	2017/1/9 9:42
7320 Kwok Shum Au	225	1 9.3.1.23	41	47	E	N	41.47 9.3.1.23	Why is there an opening and a closing bracket for the RA field in Figure 9-52c?	Replace "(RA)" with "RA".	2017/1/9 9:42
7321 Kwok Shum Au	225	1 9.3.1.23	41	59	E	N	41.59 9.3.1.23	Missing space at the beginning of a sentence.	In 41.59, replace "recipient STA.If the" with "recipient STA. If the". In 41.61, replace "broadcast address.If the" with "broadcast address. If the". In 69.59, replace "otherwise.When" with "otherwise. When".	2017/1/9 9:42
7322 Kwok Shum Au	225	1 9.3.1.23	42	7	E	N	42.07 9.3.1.23	Missing space for the name of the GI And LTF Type field.	Replace "GIAnd" with "GI And".	2017/1/9 9:42
7323 Kwok Shum Au	225	1 9.3.1.23	42	28	E	N	42.28 9.3.1.23	Trigger Dependent Common Info is a subfield of the Common Info field, rather than a field.	In lines 42.28, 48.23, 49.35, 49.63, 50.43, 51.24, 51.33, and 51.65, replace "Trigger Dependent Common Info field" with "Trigger Dependent Common Info subfield".	2017/1/9 9:42
7324 Kwok Shum Au	225	1 9.3.1.23	42	28	E	N	42.28 9.3.1.23	Trigger Dependent User info is a subfield of the User Info field, rather than a field.	In lines 42.28, 48.24, 48.36, 49.36, 49.49, 49.64, 50.7, 51.15, 51.28, 51.35, 51.45, and 52.2, replace "Trigger Dependent User Info field" with "Trigger Dependent User Info subfield".	2017/1/9 9:42
7325 Kwok Shum Au	225	1 9.3.1.23	43	52	E	N	43.52 9.3.1.23	Capitalization is not needed for the word "Single Stream".	In 43.52, replace "Single" with "single". In 44.1, replace "Stream" with "stream".	2017/1/9 9:42
7326 Kwok Shum Au	225	1 9.3.1.23	44	26	E	N	44.26 9.3.1.23	The description is about the number of HE-LTF symbols rather than a field. Thus, the capitalization is not needed.	Replace "the Number of HE-LTF Symbols" with "the number of HE-LTF symbols".	2017/1/9 9:42
7327 Kwok Shum Au	225	1 9.3.1.23	45	6	E	N	45.06 9.3.1.23	A space is required between a value and its unit.	Replace "2.4GHz" with "2.4 GHz".	2017/1/9 9:42
7328 Kwok Shum Au	225	1 9.3.1.23	45	8	E	N	45.08 9.3.1.23	A noun is missing for "same value".	Replace "set to same value" with "set to the same value".	2017/1/9 9:42
7329 Kwok Shum Au	225	1 9.3.1.23	45	37	T	Y	45.37 9.3.1.23	For the sentence "User Info fields with AID = 0 shall be allocated only after User Info fields with AID not equals to 0 ...", are you referring to the value of the AID12 subfield? It is not clear,	Replace "User Info fields with AID = 0 shall be allocated only after User Info fields with AID not equals to 0 ..." with "User Info fields with zero AID12 subfield shall be allocated only after User Info fields with nonzero AID12 subfield ...".	2017/1/9 9:42
7330 Kwok Shum Au	225	1 9.3.3.6	53	24	E	N	53.24 9.3.3.6	"element" is missing for "HE Capabilities".	In 53.24 and 54.18, replace "HE Capabilities" with "HE Capabilities element".	2017/1/9 9:42
7331 Kwok Shum Au	225	1 9.3.3.6	53	26	E	N	53.26 9.3.3.6	The description is about the value of the TWT Requester Supported field and therefore, it is a number rather than a text.	In 53.26 and 54.20, replace "one" with "1".	2017/1/9 9:42
7332 Kwok Shum Au	225	1 9.3.3.8	54	19	T	Y	54.19 9.3.3.8	The description is about Reassociation Response frame, rather than Association Response frame.	Replace "Association Response frame" with "Reassociation Response frame".	2017/1/9 9:42
7333 Kwok Shum Au	225	1 9.3.3.11	55	18	T	Y	55.18 9.3.3.11	Why is "dot11HEOptionImplemented" required for the TWT element to be optionally present in Probe Response frame?	Delete "and dot11HEOptionImplemented is true".	2017/1/9 9:42
7334 Kwok Shum Au	225	1 9.4.1.62	56	3	T	Y	56.03 9.4.1.62	There is no HE Compressed Beamforming frame.	Replace "HE Compressed Beamforming frame" with "HE Compressed Beamforming And CQI frame".	2017/1/9 9:42
7335 Kwok Shum Au	225	1 9.4.1.62	57	5	E	N	57.05 9.4.1.62	"Feedback Type" is subfield.	In lines 5 and 8, replace "Feedback Type" with "Feedback Type subfield".	2017/1/9 9:42
7336 Kwok Shum Au	225	1 9.4.1.62	57	29	E	N	57.29 9.4.1.62	"Remaining Feedback Segments" is a subfield.	Replace "the field is set to" with "the subfield is set to".	2017/1/9 9:42
7337 Kwok Shum Au	225	1 9.4.1.62	57	37	E	N	57.37 9.4.1.62	"First Feedback Segment" is a subfield.	Replace "the field is set to" with "the subfield is set to".	2017/1/9 9:42
7338 Kwok Shum Au	225	1 9.4.1.62	57	47	T	Y	57.47 9.4.1.62	The description about the Sounding Dialog Token Number subfield is not correct. How is it related to the ending RU index?	Provide the correct description for the Sounding Dialog Token Number subfield.	2017/1/9 9:42
7339 Kwok Shum Au	225	1 9.4.1.62	57	52	T	Y	57.52 9.4.1.62	There is no "Channel Width" subfield in the HE MIMO Control field.	Replace "Channel Width" with "BW".	2017/1/9 9:42
7340 Kwok Shum Au	225	1 9.4.1.63	58	4	E	N	58.04 9.4.1.63	The description is about the feedback but not the field.	In 58.4, 58.6, 63.65, 64.2 and 65.12, replace "HE Compressed Beamforming and CQI feedback" with "HE compressed beamforming and CQI feedback".	2017/1/9 9:42

7341 Kwok Shum Au	225	1 9.4.1.63	58	7	E	N	58.07 9.4.1.63	"Feedback Type" is subfield.	In 58.7, 64.3 and 65.15, replace "the Feedback Type field" with "the Feedback Type subfield".	2017/1/9 9:42
7342 Kwok Shum Au	225	1 9.4.1.63	58	14	E	N	58.14 9.4.1.63	For the sentence "The explaination on how these angles are generated from the beamforming feedback matrix V is given in 19.3.12.3.6 in Table 9-67, Nc is ...", it looks strange because subclause 19.3.12.3.6 is not in Table 9-67 and there is a missing linkage between the two protions of the sentence.	Replace "The explaination on how these angles are generated from the beamforming feedback matrix V is given in 19.3.12.3.6 in Table 9-67, Nc is ..." with "The explaination on how these angles are generated from the beamforming feedback matrix V is given in 19.3.12.3.6, where Nc is ..."	2017/1/9 9:42
7343 Kwok Shum Au	225	1 9.4.1.63	58	18	E	N	58.18 9.4.1.63	"Nc index" is a subfield.	Replace "Nc Index field" with "Nc Index subfield"	2017/1/9 9:42
7344 Kwok Shum Au	225	1 9.4.1.63	58	19	E	N	58.19 9.4.1.63	"Nr index" is a subfield.	Replace "Nr Index field" with "Nr Index subfield".	2017/1/9 9:42
7345 Kwok Shum Au	225	1 9.4.1.63	58	28	G	Y	58.28 9.4.1.63	There is no equation (8-1).	Replace (8-1) with (9-1).	2017/1/9 9:42
7346 Kwok Shum Au	225	1 9.4.1.63	58	40	G	Y	58.40 9.4.1.63	Is "HE Compressed Beamforming Report information" a field? If so, rename it accordingly.	Rename "HE Compressed Beamforming Report information" as "HE Compressed Beamforming Report Information field" or "HE Compressed Beamforming Report field", and then do the global change.	2017/1/9 9:42
7347 Kwok Shum Au	225	1 9.4.1.63	59	21	E	N	59.21 9.4.1.63	The description is about the feedback matrix, rather than a field.	Replace "a single Compressed Beamforming Feedback Matrix" with "a single compressed beamforming feedback matrix".	2017/1/9 9:42
7348 Kwok Shum Au	225	1 9.4.1.63	63	32	E	N	63.32 9.4.1.63	Missing a noun.	Replace "For HE beamformee" with "For an HE beamformee".	2017/1/9 9:42
7349 Kwok Shum Au	225	1 9.4.1.64	63	54	T	Y	63.54 9.4.1.64	The name of the field is not correct.	Replace "MU Exclusive Beamforming Report field" with "HE MU Exclusive Beamforming Report field".	2017/1/9 9:42
7350 Kwok Shum Au	225	1 9.4.1.64	64	15	E	N	64.15 9.4.1.64	There is more than one subfield.	Replace "subfield" with "subfields".	2017/1/9 9:42
7351 Kwok Shum Au	225	1 9.4.1.64	64	20	E	N	64.20 9.4.1.64	Missing a proposition.	Replace "has the same structure and order Table 9-76f" with "has the same structure and order defined in Table 9-76f".	2017/1/9 9:42
7352 Kwok Shum Au	225	1 9.4.1.64	64	25	G	Y	64.25 9.4.1.64	Is "HE MU Exclusive Beamforming Report information" a field? If so, rename it accordingly.	Rename "HE MU Exclusive Beamforming Report information" as "HE MU Exclusive Beamforming Report Information field" or "HE MU Exclusive Beamforming Report field", and then do the global change.	2017/1/9 9:42
7353 Kwok Shum Au	225	1 9.4.1.65	65	21	G	Y	65.21 9.4.1.65	Is "HE CQI-only Report information" a field? If so, rename is accordingly.	Rename "HE CQI-only Report information" as "HE CQI-only Report Information field" or "HE CQI-only Report field", and then do the global change.	2017/1/9 9:42
7354 Kwok Shum Au	225	1 9.4.1.65	66	7	T	Y	66.07 9.4.1.65	The name of the subfield "Average SNR of space-time stream i for the RU index k" is not correct.	Replace "Average SNR of space-time stream i for the RU index k subfield" with "Average SNR for space-time stream i for the RU index k subfield".	2017/1/9 9:42
7355 Kwok Shum Au	225	1 9.4.1.65	66	13	T	Y	66.13 9.4.1.65	The name of the subfield "Average SNR of RU index k for space-time stream i" is not correct.	Replace "Average SNR of RU index k for space-time stream i subfield" with "Average SNR for space-time stream i for the RU index k subfield".	2017/1/9 9:42
7356 Kwok Shum Au	225	1 9.4.2.139	68	56	E	N	68.56 9.4.2.139	Capitalization is needed for the name of the HE Fragmentation Operation subfield.	In 68.56, replace "HE fragmentation Operation subfield" with "HE Fragmentation Operation subfield". In 68.57, replace "HE fragmentation operation subfield" with "HE Fragmentation Operation subfield".	2017/1/9 9:42
7357 Kwok Shum Au	225	1 9.4.2.139	68	60	T	Y	68.60 9.4.2.139	There are 4 possible values of the HE Fragmentation Operation subfield. The description from 68.60 to 69.20 summarizes the scenarios when the values are 0, 1, and 2. How about the scenario when the value is 3?	Insert the description for the scenario when the value of the HE Fragmentation Operation subfield is 3 in the ADDBA Request frame and the ADDBA Response frame.	2017/1/9 9:42

7358 Kwok Shum Au	225	1 9.4.2.200	70	27	T	Y	70.27 9.4.2.200	In 70.2-70.4, it says that "The Wake TBTT Negotiation subfield is set to 0 in the TWT elements transmitted by a responding STA and a scheduling STA". In Table 9-262k, however, there is a entry titled "Description when transmitted by a TWT scheduling STA, Wake TBTT Negotiation subfield = 1", which means that the Wake TBTT Negotiation subfield is allowed to set to 1 in the TWT elements transmitted by a scheduling STA. It is a contradictation.	Please clarify whether the Wake TBTT Negotiation subfield is allowed to set to 1 in the TWT elements transmitted by a scheduling STA.	2017/1/9 9:42
7359 Kwok Shum Au	225	1 9.4.2.200	73	10	E	N	73.10 9.4.2.200	Missing proposition for the sentence "Feedback can be contained is the QoS Control field ...".	In 73.10 and 73.35, replace "Feedback can be contained is the QoS Control field ..." with "Feedback can be contained in the QoS Control field ..."	2017/1/9 9:42
7360 Kwok Shum Au	225	1 9.4.2.200	73	14	G	Y	73.14 9.4.2.200	There is no subclause 25.14 for link adaptation using the HE variant HT Control field.	In 73.14 and 73.39, replace "25.14" with "27.13".	2017/1/9 9:42
7361 Kwok Shum Au	225	1 9.4.2.200	74	20	T	Y	74.20 9.4.2.200	In 74.20-74.25, it says that the Target Wake Up Time field can be set to 0, 8 octets or 2 octets. In Figure 9-589av, however, it indicated that the Target Wake Up Time field can be set to either 0 or 8 octets only.	In 69-36, replace "8 or 0" with "8, 2 or 0".	2017/1/9 9:42
7362 Kwok Shum Au	225	1 9.4.2.200	74	25	T	Y	74.25 9.4.2.200	For the sentence "When a TWT responding STA or a TWT scheduling STA with dot11TWTGroupingSupport equal to 0 transmits a TWT element to the TWT requesting STA ...", it means dot11TWTGroupingSupport is required. However, dot11TWTGroupingSupport cannot be found in this amendment (11ax D1.0), 11mc Draft 8.0 or 11ah Draft 10.0.	Add dot11TWTGroupingSupport in subclause C.3.	2017/1/9 9:42
7363 Kwok Shum Au	225	1 9.4.218.2	77	55	E	N	77.55 9.4.218.2	Maximum Number of Fragmented MSDUs is a subfield, rather than a field.	Replace "defined by this field" with "defined by this subfield".	2017/1/9 9:42
7364 Kwok Shum Au	225	1 9.4.218.2	77	57	E	N	77.57 9.4.218.2	The description is about the subfield and therefore,capitalization is needed.	Replace "the Maximum Number of Fragmented MSDUs" with "the Maximum Number of Fragmented MSDUs subfield".	2017/1/9 9:42
7365 Kwok Shum Au	225	1 9.4.218.2	78	16	E	N	78.16 9.4.218.2	There is only one remaining value.	Replace "Remaining values are reserved" with "Set to 3 for reserved".	2017/1/9 9:42
7366 Kwok Shum Au	225	1 9.4.218.2	78	27	T	Y	78.27 9.4.218.2	The name of the subfield is "HE Link Adaptation" rather than "HE Link Adaptation Capable", according to Figure 9-589ck.	Replace "HE Link Adaptation Capable" with "HE Link Adaptation".	2017/1/9 9:42
7367 Kwok Shum Au	225	1 9.4.218.2	78	41	G	Y	78.41 9.4.218.2	There is no subclause 25.4.2.	Replace 25.4.2 with 27.4.2.	2017/1/9 9:42
7368 Kwok Shum Au	225	1 9.4.218.2	78	45	E	N	78.45 9.4.218.2	UL MU Response Scheduling Support is a subfield rather than a field.	In 78.45 and 78.46, replace "field" with "subfield".	2017/1/9 9:42
7369 Kwok Shum Au	225	1 9.4.218.2	78	58	T	Y	78.58 9.4.218.2	The name of the subfield is "Broadcast TWT Support", rather than "Broadcast TWT Supported", according to Figure 9-589ck.	Replace "Broadcast TWT Supported" with "Broadcast TWT Support".	2017/1/9 9:42
7370 Kwok Shum Au	225	1 9.4.218.2	79	10	T	Y	79.10 9.4.218.2	The name of the subfield is "MU Cascading Support", rather than "MU Cascading Supported", according to Figure 9-589ck.	Replace "MU Cascading Supported" with "MU Cascading Support".	2017/1/9 9:42
7371 Kwok Shum Au	225	1 9.4.218.2	79	10	E	N	79.10 9.4.218.2	Capitalization is not needed for the description "MU Cascading sequence".	Replace "MU Cascading sequence" with "MU cascading sequence".	2017/1/9 9:42
7372 Kwok Shum Au	225	1 9.4.218.2	79	42	T	Y	79.42 9.4.218.2	There is neither description nor encoding for the Maximum A-MPDU Length Exponent subfield.	Move the two paragraphs in 80.26 to 80.54 into these two entries.	2017/1/9 9:42
7373 Kwok Shum Au	225	1 9.4.218.2	80	6	E	N	80.06 9.4.218.2	Capitalization is needed for the description about Control, Data, and Management frames.	Replace "other control, data and management frames" with "other Control, Data and Management frames".	2017/1/9 9:42
7374 Kwok Shum Au	225	1 9.4.218.2	80	11	E	N	80.11 9.4.218.2	Capitalization is not needed for the description about quiet time period.	Replace "Quiet Time Period (QTP)" with "quiet time period (QTP)".	2017/1/9 9:42
7375 Kwok Shum Au	225	1 9.4.218.2	80	29	E	N	80.29 9.4.218.2	Capitalization is not needed for the word "Receive".	In 80.29, 80.32, 80.44 and 80.48, replace "can Receive" with "can receive".	2017/1/9 9:42
7376 Kwok Shum Au	225	1 9.4.218.3	81	35	G	Y	81.35 9.4.218.3	There are 3 bits, B37, B38 and B39 for the NSTS Total For \leq 80 MHz subfield, but it shows in the figure that there are only 2 bits.	Replace "2" with "3".	2017/1/9 9:42
7377 Kwok Shum Au	225	1 9.4.218.3	82	44	E	N	82.44 9.4.218.3	Incorrect proposition.	Replace "off" with "on".	2017/1/9 9:42

7378	Laurent Cariou	225	1 4.3.14a	9	33	T	Y	9.33 4.3.14a	the list of PHY and MAC features is incomplete	add the complete list of features	2017/1/9 9:42
7379	Laurent Cariou	225	1 9.2.4.6.4.3	24	34	T	Y	24.34 9.2.4.6.4.3	This section includes Rx and Tx operating mode indications. The spec also defines management frames to signal operating mode changes (OMN frames). For consistency, the OMN frames should be modified to include the same indications as in the Operating mode subfield of the A-control.	Define a new IE for the Tx Operating mode parameleers. This IE can be added to the existing VHT Operating Mode Notification frame. The new element would be understood by an HE AP (i.e., if the OMN capability is set and the AP is HE it understands the new element).	2017/1/9 9:42
7380	Laurent Cariou	225	1 9.2.4.6.4.7	27	47	T	Y	27.47 9.2.4.6.4.7	"HE DL HE MU transmission" should be "HE DL MU transmission	Same as comment	2017/1/9 9:42
7381	Laurent Cariou	225	1 9.4.2.139	68	56	T	Y	68.56 9.4.2.139	Fragmentation level 3 should be included in the HE fragmentation operation of the ADDBA Extension element	Same as comment	2017/1/9 9:42
7382	Laurent Cariou	225	1 9.4.2.219	55	91	T	Y	55.91 9.4.2.219	TWT operation is efficient for specific types of traffic (with periodic patterns) but not for all. It is not efficient to require all STAs to apply TWT. This should be changed to a recommandation		2017/1/9 9:42
7383	Laurent Cariou	225	1 9.6.5.1	99	1	T	Y	99.01 9.6.5.1	Remove L3 FRAG ADDBA Request, response, Delba to harmonize to the solution used for fragmentation levels 1 and 2.	Same as comment	2017/1/9 9:42
7384	Laurent Cariou	225	1 9.6.29.4	105	28	T	Y	105.28 9.6.29.4	The text is confusing. It mentions a request in the response frame.	Clarify the meaning of the frames	2017/1/9 9:42
7385	Laurent Cariou	225	1 27.5.1.3	163	17	T	Y	163.17 27.5.1.3	It is not mentioned on which bandwidth the report is provided, while the bitmap depends on the bandwidth	Clarify	2017/1/9 9:42
7386	Laurent Cariou	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	NDP feedback report procedure must be detailed	Provide a description of NDP feedback report procedure for the AP side and the STA side	2017/1/9 9:42
7387	Laurent Cariou	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	NDP feedback report are sent in response to a trigger frame. The specification must define a new trigger type soliciting NDP feedback report from multiple STAs.	Define a new trigger type soliciting NDP feedback report	2017/1/9 9:42
7388	Laurent Cariou	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	The procedure for NDP feedback report must define how the STA identifies that it can respond to the trigger frame soliciting the feedback report, and identifies the MAC and PHY parameters for the transmission of the feedback report.	Define the fields of the trigger type soliciting NDP feedback report and the associated STA procedure.	2017/1/9 9:42
7389	Laurent Cariou	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	NDP feedback report is a generic mechanism that can be used for multiple types of feedback. The specification must define a way to identify the type of feedbacks that are solicited by the NDP feedback report trigger frame.	Define the fields of the trigger type soliciting NDP feedback report and the associated STA procedure.	2017/1/9 9:42
7390	Laurent Cariou	225	1 28.3.4	240	57	T	Y	240.57 28.3.4	NDP feedback report is defined as a feedback sent in response to a trigger frame without data payload. The specification must define the HE PPDU type that will carry this NDP feedback report and how the users are multiplex.	Define the HE NDP feedback report PPDU	2017/1/9 9:42
7391	Laurent Cariou	225	1 9.3.1.9.1	34	23	T	Y	34.23 9.3.1.9.1	11ax defines some solutions to improve performance when experiencing coexistence issues with BT for example. (UL MU disable bit). In the same approach, a STA experiencing packet loss due to collisions for instance because of in-device coexistence issues should be able to inform the the originator that the packet losses are due to such collisions. Based on this, the originator can adapt betterly its rate selection, which we can show improves significantly the performance.	Use a reserved bit in the BA control to signal if the PPDU that elicited the BA transmission was received with collisions (for instance due to in-device coex) or not.	2017/1/9 9:42
7392	Laurent Cariou	225	1 9.2.4.1.8	19	35	T	Y	19.35 9.2.4.1.8	A STA sending a BA should be able to set the more data bit to 1 to indicate to the originator that it has buffered traffic and would like to access the medium to transmit it (ressource request)	Modify the procedure so that any STA sending a BA to set the more data bit to 1 to indicate an UL resource request	2017/1/9 9:42

7393	Laurent Cariou	225	1 27.4.1	157	21	T	Y	157.21 27.4.1	A STA sending any BA should be able to set the more data bit to 1 to indicate to the originator that it has buffered traffic and would like to access the medium to transmit it (ressource request)	Modify the procedure so that any STA sending a BA to set the more data bit to 1 to indicate an UL resource request	2017/1/9 9:42
7394	Laurent Cariou	225	1 27.5.2.2.3	167	25	T	Y	167.25 27.5.2.2.3	Recommandations on the AP parameters (EDCA parameters and TxOP duration) to access the channel to send a trigger frame should be defined in order to ensure fairness between OBSSs	Same as comment	2017/1/9 9:42
7395	Laurent Cariou	225	1 27.7.1	179	49	T	Y	179.49 27.7.1	TWT operation is complex and defines a very long list of possible implementations and modes of operation. As such, it will be very hard to get interoperability between devices and to rely on consistent and predictable behaviors. The spec should define a limited set of modes of operation that makes more sense for 11ax use cases and define associated expected behaviors. Examples can be: individual TWT for regular traffic (voice), opportunistic power save for congested environment and bursty traffic	Same as comment	2017/1/9 9:42
7396	Laurent Cariou	225	1 27.7.1	180	15	T	Y	180.15 27.7.1	TWT is efficient only in certain environment conditions and only for some traffic types. It is therefore very unlikely that forcing TWT will be beneficial to all STAs. The TWT required bit set to 1 should therefore be a recommendation rather than a requirement. This feature was agreed at a time where Broadcast TWT was not constraining on the STA side. Now that broadcast TWT has been modified, this makes the requirement on the STA side now more stringent and should be revised. Finally, opportunistic power save has also been defined for congested environments, opportunistic power save should be part of the choices that are required by the TWT required subfield, with individual and Broadcast TWT	Replace "A STA that supports TWT and is associated with an AP from which it receives an HE Operation element whose TWT Required subfield is 1 shall either..." by "A STA that supports TWT and is associated with an AP from which it receives an HE Operation element whose TWT Required subfield is 1 should either ..." and add "participate in opportunistic power save" in the choices after the word "either".	2017/1/9 9:42
7397	Laurent Cariou	225	1 27.7.3.1	182	34	T	Y	182.34 27.7.3.1	A STA should be a TWT scheduled STA only if it negotiated a Broadcast TWT with the AP. The rules apply only to those who negotiated.	Same as comment	2017/1/9 9:42
7398	Laurent Cariou	225	1 27.7.3.2	184	14	T	Y	184.14 27.7.3.2	In a trigger-enabled SP, it is not clear if all STAs have to be triggered or not. It seems not, so the behavior of the STA and APs are not clear.	Same as comment	2017/1/9 9:42
7399	Laurent Cariou	225	1 27.7.3.2	184	52	T	Y	184.52 27.7.3.2	Description of TWT Flow Identifier subfield equal to 3 is missing	Provide description for it	2017/1/9 9:42
7400	Laurent Cariou	225	1 27.7.1	179	49	T	Y	179.49 27.7.1	Broadcast TWT is currently also used just to indicate to any STAs the point in time at which some frames will be transmitted. This is the case for the transmission of trigger frames with OFDMA random access, for the transmission of TIM elements for opportunistic power save. This should be described	Provide description for it	2017/1/9 9:42
7401	Laurent Cariou	225	1 27.7.3.1	182	28	T	Y	182.28 27.7.3.1	Broadcast TWT is currently also used just to indicate to any STAs the point in time at which some frames will be transmitted. This is the case for the transmission of trigger frames with OFDMA random access, for the transmission of TIM elements for opportunistic power save. This should be described	Provide description for it	2017/1/9 9:42

7402 Laurent Cariou	225	1 27.7.3.1	182	28	T	Y	182.28 27.7.3.1	Broadcast TWT has 2 modes of operation, one which requires negotiation (ID non equal to 0) and one which does not require negotiation (ID equal 0). This should be described. Operation with ID=0 does not require the STA to be a scheduled STA, as it is open to all associated STAs.	Provide clarification for it in this section		2017/1/9 9:42
7403 Laurent Cariou	225	1 27.7.4	187	14	T	Y	187.14 27.7.4	The spec currently defines a mode of operation where any STAs (especially STAs using legacy power save mechanisms) can send TWT info frames when going in doze state to indicate the time when they will be back in their original state (awake state). If the peer STA sets Flexible TWT Schedule Support to 1, the time when they will be back can be any time. If the peer STA sets Flexible TWT Schedule Support to 0, the time when they will be back shall coincide with a specific TWT SP. For clarity, we should define a specific section for this mode of operation, as it can be used by STAs operating only with legacy power save modes and not operating with TWT.	Define a specific section and better describe the behavior associated to the use of TWT info frames for STAs without TWT agreements.		2017/1/9 9:42
7404 Laurent Cariou	225	1 27.8.1	188	22	T	Y	188.22 27.8.1	The spec says: "An HE STA can change its operating mode setting either using the procedure described in 11.42 (Notification of operating mode changes), or the procedure described in this subclause. " The 2 procedures should be harmonized so that they provide the same capabilities (same changes of mode of operation)	Modify the notification of operating mode changes using omn frames so that the transmit operating mode changes are also supported.		2017/1/9 9:42
7405 Laurent Cariou	225	1 27.9.2.2	191	3	T	Y	191.03 27.9.2.2	Current OBSS_PD mechanism only defines operation with default parameters. In managed environments, the spec should allow APs to configure more optimaly the parameters, having in mind that those parameters shall only be used by the STAs associated with the group of APs that apply those new parameters.	Add the mechanism to allow APs from an SR group to apply new OBSS_Pdmin and max parameters, and the procedure so that those parameters can only be used if the received OBSS packet is from an OBSS that belongs to the same SR group.		2017/1/9 9:42
7406 Laurent Cariou	225	1 27.9.2.2	192	15	T	Y	192.15 27.9.2.2	The current spec defines a rule that the TxPower constraints can not be increased until the SR STA accesses the channel and ends its TxOP, even if other OBSS_PPDUs are received. This should be clarified in better wording	Same as comment		2017/1/9 9:42
7407 Laurent Cariou	225	1			T	Y		eLWA is demanding of metrics in order for APs and STAs to measure or estimate the quality of an 11ax Wi-Fi link during its operation. Estimated throughput could be enhanced to account for 11ax changes or new metrics could be defined.	Define enhanced metrics		2017/1/9 9:42
7408 Lei Huang	225	1 9.4.2.218.2	79	38	T	Y	79.38 9.4.2.218.2	"random RUs" should be changed to "random access RUs" or "RUs for random access"	as per comment		2017/1/9 9:42

7409 Lei Huang	225	1 27.5.2.6.1	172	35	T	Y	172.35 27.5.2.6.1	There is currently no rule regarding how RUs are assigned for random access in a Trigger frame by an AP. Without such a rule, it is possible that no any RUs assigned for random access in a Trigger frame are available to 20MHz operating STAs. In order for 20MHz operating STA to always get an opportunity to reach AP via random access procedure, every Trigger frame for random access shall include at least one RU for random access which is available to 20MHz operating STAs.	Add the following statement at the end of the second paragraph of section 27.5.2.6.1: "Every Trigger frame for random access transmitted by the HE AP shall include at least one RU for random access which is available to 20MHz operating STAs. In other words, every Trigger frame for random access shall contain at least one RU for random access which is in the primary 20MHz channel and unrestricted to be used for 20MHz operating STAs."		2017/1/9 9:42
7410 Lei Huang	225	1 27.5.2.6.1	172	39	T	Y	172.39 27.5.2.6.1	Currently it is optional for AP to send RAPS element. If AP does not send RAPS element, an STA does not transmit any HE trigger-based PPDU using random access RUs. This would cause unnecesary transmission delay for STA.	1. Define a default value for OCWmin and OCWmax; 2. If an HE STA does not receive the RAPS element, the HE STA shall perform UL OFDMA-based random access procedure based on the default values of OCWmin and OCWmax.		2017/1/9 9:42
7411 Lei Huang	225	1 27.5.2.6.1	172	46	T	Y	172.46 27.5.2.6.1	"Beacon or Probe Response" shall be changed to "Beacon or Probe Response frame"	as per comment		2017/1/9 9:42
7412 Lei Huang	225	1 27.5.2.6.2	173	18	T	Y	173.18 27.5.2.6.2	M-BA in Figure 27-1 is not defined in D1.0. In addition, BA could be used as an acknowledgement for HE trigger-based PPDU.	Change "Ack/M-BA" in Figure 27-1 to "Ack/BA/Multi-STA BA"		2017/1/9 9:42
7413 Lei Huang	225	1 27.5.2.6.2	173	19	E	Y	173.19 27.5.2.6.2	In Figure 27-1, "HE Trigger-based PPDU" shall be changed to "HE trigger-based PPDU"	as per comment		2017/1/9 9:42
7414 Lei Huang	225	1 27.5.2.6.2	173	27	T	Y	173.27 27.5.2.6.2	The statement "An HE AP indicates the values of OCWmin and OCWmax in the RAPS element in a Beacon or Probe Response frame for the random access operation. OCWmax is the upper limit of OCW." is redundant since there is the similar statement in Section 27.5.2.6.1 (see L38-L43 of P172).	delete "An HE AP indicates the values of OCWmin and OCWmax in the RAPS element in a Beacon or Probe Response frame for the random access operation. OCWmax is the upper limit of OCW."		2017/1/9 9:42
7415 Lei Huang	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	If the OBO counter is equal to the number of RUs assigned for random access, the HE STA shall also decrement its OBO counter to zero.	Change "For an HE STA, if the OBO counter is smaller than the number of RUs assigned to AID value 0 in a Trigger frame, then the HE STA shall decrement its OBO counter to zero." to "For an HE STA, if the OBO counter is not larger than the number of RUs assigned to AID value 0 in a Trigger frame, then the HE STA shall decrement its OBO counter to zero."		2017/1/9 9:42
7416 Lei Huang	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	"..AID value 0If the selected RU.." should be changed to "..AID value 0. If the selected RU.."	as per comment		2017/1/9 9:42
7417 Lei Huang	225	1 27.5.2.6.2	173	46	T	Y	173.46 27.5.2.6.2	CCA is based on individual 20MHz channel(s) and is not RU-based.	Change "If the selected RU is idle..." to "If each of one or more 20 MHz channels containing the selected RU is idle..."		2017/1/9 9:42
7418 Lei Huang	225	1 27.5.2.6.2	173	48	T	Y	173.48 27.5.2.6.2	CCA is based on individual 20MHz channel(s) and is not RU-based.	Change "If the selected RU is considered busy..." to "If each of one or more 20 MHz channels containing the selected RU is considered busy..."		2017/1/9 9:42
7419 Lei Huang	225	1 27.14.2	199	60	T	Y	199.60 27.14.2	Broadcast TWT element actually does not indicate start times for Trigger frames with random access allocations. Instead it indicates start time of broadcast TWT SP which contains Trigger frames with random access allocations.	1. Change "An HE AP may indicate one or more start times for Trigger frames with random access allocations in the broadcast TWT element that is included in the Beacon frame or a management frame ..." to "An HE AP may indicate start time for broadcast TWT SP containing Trigger frames with random access allocations in the broadcast TWT element that is included in the Beacon frame or a management frame ..." 2. Change Figure 27-7 accordingly.		2017/1/9 9:42

7420 Lei Huang	225	1 27.14.2	200	21	T	Y	200.21 27.14.2	The condition for an HE STA to enter the doze state for a trigger-enabled TWT SP is incomplete. For example, if the TWT Flow Identifier subfield in a TWT element has a value of 0, HE STA may also enter the doze state until the start of that TWT SP defined by the TWT element.	Change "An HE STA that receives a Beacon frame or a management frame containing a TWT element that has a value of 1 in the Broadcast subfield a value of 2 in the TWT Flow Identifier subfield may enter the doze state until the start of that TWT SP..." to "An HE STA that receives a Beacon frame or a management frame containing a TWT element that has a value of 1 in the Broadcast subfield, a value of 1 in the Trigger subfield, a value of either 0 or 2 in the TWT Flow Identifier subfield may enter the doze state until the start of that TWT SP..."		2017/1/9 9:42
7421 Lei Huang	225	1 27.14.2	200	24	T	Y	200.24 27.14.2	It is possible for an HE STA to enter the doze state for a trigger-enabled TWT SP in various ways. For one example, when an HE STA receives a Beacon frame or a management frame containing the TWT element with the Broadcast subfield set to 1, the Trigger subfield set to 1 and the TWT Flow Identifier subfield set to 1, namely, the trigger-based TWT SP defined by the TWT element contains no any RUs for random access, it may enter the doze state at least until the end of the TWT SP defined by the TWT element. For another example, when an HE STA receives a Beacon frame or a management frame containing the TWT element with the Broadcast subfield set to 1 and the Trigger subfield set to 0, namely, the TWT SP defined by the TWT element contains no any Trigger frame, it may enter the doze state at least until the end of the TWT SP defined by the TWT element.	Insert the following statements after the second paragraph of page 200: "An HE STA that receives a Beacon frame or a management frame containing the TWT element with the Broadcast subfield set to 1, the Trigger subfield set to 1 and the TWT Flow Identifier subfield set to 1 may enter the doze state at least until the end of the TWT SP defined by the TWT element. An HE STA that receives a Beacon frame or a management frame containing the TWT element with the Broadcast subfield set to 1 and the Trigger subfield set to 0 may enter the doze state at least until the end of the TWT SP defined by the TWT element."		2017/1/9 9:42
7422 Lei Huang	225	1 27.14.2	200	31	T	Y	200.31 27.14.2	The condition for an HE STA to enter the doze state using the value inidcated in the Cascade Indication field in a Trigger frame is incomplete. For example, if the OBO counter decrements to zero and but each of one or more 20MHz channels containing the selected RU is considered busy with the random access procedure in a Trigger frame with Cascade Indication field set to 0, the HE STA may enter the doze state immediately as well.	Change "If the OBO counter decrements to a non-zero value with the random access procedure in a Trigger frame with Cascade Indication field set to 0, it may enter the doze state immediately. If the OBO counter decrements to a non-zero value with the random access procedure in a Trigger frame with Cascade Indication field set to 1, it may remain awake for random access in the cascaded Trigger frame." to "If the OBO counter decrements to a non-zero value or if the OBO counter decrements to zero and but each of one or more 20MHz channels containing the selected RU is considered busy with the random access procedure in a Trigger frame with Cascade Indication field set to 0, it may enter the doze state immediately. If the OBO counter decrements to a non-zero value or if the OBO counter decrements to zero and but each of one or more		2017/1/9 9:42

7423	Lei Huang	225	1 28.3.3.8.3	239	2	T	Y	239.02 28.3.3.8.3	In case of full bandwidth MU-MIMO transmission, the number of HE-SIG-B symbols is not indicated in the HE-SIG-A. Instead the number of STAs in the MU-MIMO group is indicated in the HE-SIG-A. However, in this case, a STA still needs to know the number of HE-SIG-B symbols for decoding HE-SIG-B. Therefore, it is necessary to clarify how the number of HE-SIG-B symbols is determined in case of full bandwidth MU-MIMO transmission.	Insert the following statement after the sentence "The number of STAs in the MU-MIMO group is indicated in the Number Of HE-SIG-B Symbols Or MU-MIMO Users field in HE-SIG-A." "In this case, the number of HE-SIG-B symbols can be derived according to the values of the SIGB MCS field, the SIGB DCM field and the Number Of HE-SIG-B Symbols Or MU-MIMO Users field in the HE-SIG-A field.		2017/1/9 9:42
7424	Lei Huang	225	1 28.3.10.8.5	298	20	E	Y	298.20 28.3.10.8.5	The SIGB Number of Symbols/Number of MU-MIMO Users field should be changed to the Number Of HE-SIG-B Symbols Or MU-MIMO Users field for keep consistency	as per comment		2017/1/9 9:42
7425	Lei Huang	225	1 27.5.2.6.3	174	16	T	Y	174.16 27.5.2.6.3	The retransmission procedure for random access is not clearly defined.	1. define a local MIB variable "dot11RARetryLimit",which indicates the maximum number of successive retransmission attempts. 2. Change the sentence in L52-L54 of P172 as follows: "The non-AP STA with dot11OFDMARandomAccess OptionImlemented set to true shall maintain an internal OFDMA backoff (OBO) counter and an internal random access retry (RAR) counter. 3. Change the second paragraph of 27.5.2.6.3 as follows: "If the HE trigger-based PPDU is not successfully transmitted in the randomly selected RU, the HE STA shall update its OCW to 2*OCW+1 for every retransmission, until the OCW reaches OCWmax, and shall also increment its RAR counter by one and initialize its OBO counter to a random value in the range of 0 and OCW for every retransmission. Once the OCW reaches OCWmax for successive retransmission attempts, the OCW shall		2017/1/9 9:42
7426	Lei Huang	225	1 27.5.2.6.2	173	56	T	Y	173.56 27.5.2.6.2	The sentence "If the HE trigger-based PPDU is successfully transmitted in the randomly selected RU, then the STA shall set its OCW to OCWmin" is redundant (see L30-L34 of P173).	remove the sentence "If the HE trigger-based PPDU is successfully transmitted in the randomly selected RU, then the STA shall set its OCW to OCWmin".		2017/1/9 9:42
7427	Lei Huang	225	1 27.5.2.6.2	174	1	T	Y	174.01 27.5.2.6.2	The condition of transmitting an HE trigger-based PPDU successfully in the randomly selected RU is not clearly defined.	1. Change L1-L5 of P174 as follows: "If a STA transmits an HE trigger-based PPDU that solicits an immediate response in a random access RU and the expected response is not received, the transmission is considered unsuccessful and the STA invokes the UL OFDMA-based random access retransmission procedure as defined in 27.5.2.6.3 (Retransmission procedure for random access). Otherwise the transmission is considered successful. 2. delete the note in L58-L60 of P173 since it has been covered by the above bulletin.		2017/1/9 9:42
7428	Lei Huang	225	1 28.1.1	209	42	T	Y	209.42 28.1.1	"channel puncturing" should be changed to "preamble puncturing"	as per comment		2017/1/9 9:42

7429 Lei Huang	225	1 28.1.1	209	57	T	Y	209.57 28.1.1	DCM can also be combined with QPSK.	change "The HE PHY data subcarriers are modulated using binary phase shift keying (BPSK), BPSK dual-carrier modulation (DCM), quadrature phase shift keying (QPSK), 16-quadrature amplitude modulation (16-QAM), 16-QAM DCM, 64-QAM, 256-QAM and 1024-QAM" to "The HE PHY data subcarriers are modulated using binary phase shift keying (BPSK), BPSK dual-carrier modulation (DCM), quadrature phase shift keying (QPSK), QPSK DCM, 16-quadrature amplitude modulation (16-QAM), 16-QAM DCM, 64-QAM, 256-QAM and 1024-QAM"		2017/1/9 9:42
7430 Lei Huang	225	1 28.3.11.5	317	34	T	Y	317.34 28.3.11.5	For a HE trigger-based PPDU, the encoder is selected by the Coding Type subfield in User Info field in a Trigger frame.	Change "The encoder is selected by the Coding field in HE-SIG-A in an HE SU PPDU or an HE extended range SU PPDU, or HE-SIG-B per-user subfield(s) in an HE MU PPDU, as defined in 28.3.10.7 (HE-SIG-A) and 28.3.10.8 (HE-SIG-B) respectively." to "The encoder is selected by the Coding field in HE-SIG-A in an HE SU PPDU or an HE extended range SU PPDU, or the Coding field in HE-SIG-B per-user subfield(s) in an HE MU PPDU, or the Coding Type subfield in User Info field in a Trigger frame, as defined in 28.3.10.7 (HE-SIG-A), 28.3.10.8 (HE-SIG-B) and 9.3.1.23 (Trigger frame format), respectively."		2017/1/9 9:42
7431 Lei Huang	225	1 28.3.11.5.1	317	63	T	Y	317.63 28.3.11.5.1	Equation (28-65) to (28-68) are also applicable to HE extended range SU PPDU	Replace "HE SU PPDU" by "HE SU PPDU or HE extended range SU PPDU' throughout whole 28.3.11.5.1		2017/1/9 9:42
7432 Lei Huang	225	1 28.3.11.5.2	318	29	T	Y	318.29 28.3.11.5.2	LDPC encoding process is applicable to HE extended range SU PPDU as well	Change "For an HE SU PPDU using LDPC coding to encode the Data field,..." to "For an HE SU PPDU or HE extended range SU PPDU to encode the Data field..."		2017/1/9 9:42
7433 Lei Huang	225	1 28.3.11.2	314	20	T	Y	314.20 28.3.11.2	Strictly speaking, the PSDU contains pre-FEC MAC pad bits.	Change "When BCC encoding is used, the Data field shall consist of the SERVICE field, the PSDU, the tail bits, the post-FEC padding bits and the packet extension. When LDPC encoding is used, the Data field shall consist of the SERVICE field, the PSDU, the post-FEC padding bits and the packet extension." to "When BCC encoding is used, the Data field shall consist of the SERVICE field, the PSDU, the pre-FEC PHY pad bits, the tail bits, the post-FEC padding bits and the packet extension. When LDPC encoding is used, the Data field shall consist of the SERVICE field, the PSDU, the pre-FEC PHY pad bits, the post-FEC padding bits and the packet extension...."		2017/1/9 9:42
7434 Lei Huang	225	1 28.3.11.5.1	318	19	T	Y	318.19 28.3.11.5.1	Equation (28-68) is not necessary. Similar to N_DBPS,LAST, we can just say that N_CBPS,LAST = N_CBPS,LAST,init, which is defined by (28-62).	1. Change "The number of coded bits per symbol in the last OFDM symbol(s) of an HE SU PPDU is given by Equation (28-68). " to "The number of coded bits per symbol in the last OFDM symbol(s) of an HE SU PPDU is N_CBPS,LAST= N_CBPS,LAST,init." 2. delete equation (28-68).		2017/1/9 9:42

7435 Lei Huang	225	1 28.3.11.5.2	318	31	T	Y	318.31 28.3.11.5.2	Strictly speaking, the PSDU contains pre-FEC MAC pad bits.	Change "all bits in the Data field including the scrambled SERVICE, PSDU, and pre-FEC pad bits are encoded" to "all bits in the Data field including the scrambled SERVICE, PSDU, and pre-FEC PHY pad bits are encoded"		2017/1/9 9:42
7436 Lei Huang	225	1 28.3.11.2	315	14	T	Y	315.14 28.3.11.2	Figure 28-29 seems to be applicable to LDPC only since no tail bits are added after FEC.	Change the FEC block to the LDPC FEC block in Figure 28-29		2017/1/9 9:42
7437 Lei Huang	225	1 28.3.11.5.2	318	34	T	Y	318.34 28.3.11.5.2	Equation (20-35) should be changed to Equation (19-35).	As per comment		2017/1/9 9:42
7438 Lei Huang	225	1 28.3.11.5.2	318	47	T	Y	318.47 28.3.11.5.2	Equation (20-36) should be changed to Equation (19-36).	As per comment		2017/1/9 9:42
7439 Lei Huang	225	1 28.3.11.5.4	319	56	T	Y	319.56 28.3.11.5.4	Currently, for an HE MU PPDU, the user with the longest encoded packet duration is derived by Equation (28-77), which requires computing the initial pre-FEC padding factor value and the initial number of OFDM symbol for each user. Actually,a simpler method can be used for this purpose. In more details, first compute initial number of OFDM symbols for each user, and then determine a subset of users which have maximum initial number of OFDM symbols. After that, compute the initial pre-FEC padding factor value only for each user in the subset. Then the user with the longest encoded packet duration is just the user which has maximum initial pre-FEC padding factor among the users in the subset. In other words, compared with the current method, the proposed method does not require computing the initial pre-FEC padding factor values for users which are not in the subset and thus the	Change the method for deriving the user with the longest encoded packet duration as per comment.		2017/1/9 9:42
7440 Lei Huang	225	1 28.3.11.5.4	320	58	T	Y	320.58 28.3.11.5.4	In Equation (28-83), N_CBPS,last,u should be changed to N_CBPS,short,u	As per comment		2017/1/9 9:42
7441 Lei Huang	225	1 28.3.11.5.4	321	30	T	Y	321.30 28.3.11.5.4	a_init=4 should be changed to a=4	As per comment		2017/1/9 9:42
7442 Lei Huang	225	1 28.3.14.2	341	48	T	Y	341.48 28.3.14.2	Due to STA's minimum/maximum transmit power limit, the actual received signal power at AP for an HE trigger-based PPDU may be higher or lower than the target RSSI. For example, for one STA which is located very closed to AP, the received signal power at AP may be much higher than the target RSSI due to the STA's minimum transmit power limit. For one STA which is located far away from the AP, the received signal power at AP may be much lower than the target RSSI due to the STA's maximum transmit power limit. As a result, the received signal power at AP could differ significantly among STAs, which results in severe MUI (mulli-user interference). This problem becomes even more severe in case of OFDMA based random access, since AP has no knowledge about which STA will be transmitting at a random access RU.	Insert the following statement after L48 of P341: "An STA should not transmit its HE trigger-based PPDU when the estimated received signal power at AP is much larger than the target RSSI."		2017/1/9 9:42
7443 Lei Huang	225	1 3.2	4	39	E	Y	4.39 3.2	delete "(HE)" from "a HE (HE) STA"	As per comment		2017/1/9 9:42
7444 Lei Huang	225	1 3.2	4	41	T	Y	4.41 3.2	The following 40MHz mask PPDUs is missing: A 40 MHz HE PPDU (TXVECTOR parameter CH_BANDWIDTH equal to CBW40) transmitted using the 40 MHz transmit spectral mask defined in Clause 28 (High Efficiency (HE) PHY specification).	As per comment		2017/1/9 9:42

7445	Lei Huang	225	1 3.2	4	56	E	Y	4.56 3.2	"using the 80 MHZ transmit spectral mask" should be changed to "transmitted using the 80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7446	Lei Huang	225	1 3.2	4	60	E	Y	4.60 3.2	"using the 80 MHZ transmit spectral mask" should be changed to "transmitted using the 80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7447	Lei Huang	225	1 3.2	4	64	E	Y	4.64 3.2	"using the 80 MHZ transmit spectral mask" should be changed to "transmitted using the 80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7448	Lei Huang	225	1 3.2	5	2	E	Y	5.02 3.2	"using the 80 MHZ transmit spectral mask" should be changed to "transmitted using the 80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7449	Lei Huang	225	1 3.2	5	6	E	Y	5.06 3.2	"using the 80 MHZ transmit spectral mask" should be changed to "transmitted using the 80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7450	Lei Huang	225	1 3.2	5	9	E	Y	5.09 3.2	1) delete the duplicated "f); 2)"using the 80 MHZ transmit spectral mask" should be changed to "transmitted using the 80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7451	Lei Huang	225	1 3.2	5	13	E	Y	5.13 3.2	1) delete the duplicated "g); 2)"using the 80 MHZ transmit spectral mask" should be changed to "transmitted using the 80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7452	Lei Huang	225	1 3.2	5	31	E	Y	5.31 3.2	"using the 160 MHZ transmit spectral mask" should be changed to "transmitted using the 160MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7453	Lei Huang	225	1 3.2	5	35	E	Y	5.35 3.2	"using the 160 MHZ transmit spectral mask" should be changed to "transmitted using the 160MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7454	Lei Huang	225	1 3.2	5	39	E	Y	5.39 3.2	"using the 160 MHZ transmit spectral mask" should be changed to "transmitted using the 160MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7455	Lei Huang	225	1 3.2	5	43	E	Y	5.43 3.2	"using the 160 MHZ transmit spectral mask" should be changed to "transmitted using the 160MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7456	Lei Huang	225	1 3.2	5	51	E	Y	5.51 3.2	"using the 160 MHZ transmit spectral mask" should be changed to "transmitted using the 160MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7457	Lei Huang	225	1 3.2	5	55	E	Y	5.55 3.2	"using the 160 MHZ transmit spectral mask" should be changed to "transmitted using the 160MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7458	Lei Huang	225	1 3.2	5	59	E	Y	5.59 3.2	"using the 160 MHZ transmit spectral mask" should be changed to "transmitted using the 160MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7459	Lei Huang	225	1 3.2	6	11	E	Y	6.11 3.2	"using the 80+80 MHZ transmit spectral mask" should be changed to "transmitted using the 80+80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7460	Lei Huang	225	1 3.2	6	15	E	Y	6.15 3.2	"using the 80+80 MHZ transmit spectral mask" should be changed to "transmitted using the 80+80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7461	Lei Huang	225	1 3.2	6	19	E	Y	6.19 3.2	"using the 80+80 MHZ transmit spectral mask" should be changed to "transmitted using the 80+80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7462	Lei Huang	225	1 3.2	6	23	E	Y	6.23 3.2	"using the 80+80 MHZ transmit spectral mask" should be changed to "transmitted using the 80+80MHz transmit spectral mask.	As per comment	2017/1/9 9:42
7463	Lei Huang	225	1 3.2	6	27	E	Y	6.27 3.2	"using the 80+80 MHZ transmit spectral mask" should be changed to "transmitted using the 80+80MHz transmit spectral mask.	As per comment	2017/1/9 9:42

7464	Lei Huang	225	1 4.3.14a	9	38	T	Y	9.38 4.3.14a	"80+80MHz channel" is missing.	Change "Mandatory support for 26-, 52-, 106-, 242-, 484-, 996- and 2x996-tone RUs in a 160 MHz channel" to "Mandatory support for 26-, 52-, 106-, 242-, 484-, 996- and 2x996-tone RUs in a 80+80 MHz or 160 MHz channel"	2017/1/9 9:42
7465	Lei Huang	225	1 4.3.14a	9	42	T	Y	9.42 4.3.14a	1024 QAM is also applicable to 2*996-tone RU.	Change "Optional support for 1024-QAM on 242-, 484- and 996-tone RUs" to "Optional support for 1024-QAM on 242-, 484-, 996- and 2*996-tone RUs"	2017/1/9 9:42
7466	Lei Huang	225	1 4.3.14a	9	53	T	Y	9.53 4.3.14a	Dynamic fragmentation level 0 means no support for dynamic fragmentation. It is not true to claim that VHT STAs do not support dynamic fragmentation level 0.	Change "Mandatory support for dynamic fragmentation level 0" to "Optional support for dynamic fragmentation levels 1, 2 and 3"	2017/1/9 9:42
7467	Lei Huang	225	1 4.3.14a	9	56	T	Y	9.56 4.3.14a	"target wake up time" should be changed to "target wake time"	As per comment	2017/1/9 9:42
7468	Lei Huang	225	1 4.3.14a	9	58	T	Y	9.58 4.3.14a	"OFDMA-based random access" should be changed to "UL OFDMA-based random access"	As per comment	2017/1/9 9:42
7469	Lei Huang	225	1 6.3.3.3.2	11	26	T	Y	11.26 6.3.3.3.2	The description on HE Capabilities is inaccurate and incomplete, which should be similar to VHT Capabilities	Replace the Description on HE Capabilities by "The values from the HE Capabilities element. The parameter is present if dot11HEOptionImplemented is true and an HE Capabilities element was present in the Probe Response or Beacon frame from which the BSSDescription was determined. The parameter is not present otherwise."	2017/1/9 9:42
7470	Lei Huang	225	1 6.3.3.3.2	11	35	T	Y	11.35 6.3.3.3.2	The description on HE Operation is inaccurate and incomplete, which should be similar to VHT Operation	Replace the Description on HE Operation by "The values from the HE Operation element. The parameter is present if dot11HEOptionImplemented is true and an HE Operation element was present in the Probe Response or Beacon frame from which the BSSDescription was determined. The parameter is not present otherwise."	2017/1/9 9:42
7471	Lei Huang	225	1 9.2.4.6.4.1	23	37	T	Y	23.37 9.2.4.6.4.1	The content for Control ID value of 6 is missing in Table 9-18a.	Add "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))" for Control ID value of 6.	2017/1/9 9:42
7472	Lei Huang	225	1 9.2.4.6.4.7	28	53	T	Y	28.53 9.2.4.6.4.7	"Figure 8-1" and "Figure 8-2" in section 8.3.5.12.2 cannot be found. Please provide the correct reference.	As per comment	2017/1/9 9:42
7473	Lei Huang	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	"RDP Trigger frame" should be changed to "RDP Control subfield".	As per comment	2017/1/9 9:42
7474	Lei Huang	225	1 9.3.1.9.1	34	10	T	Y	34.10 9.3.1.9.1	"B6" in Figure 9-33 should be changed back to "B5".	As per comment	2017/1/9 9:42
7475	Lei Huang	225	1 9.3.1.9.7	38	54	T	Y	38.54 9.3.1.9.7	The second row under the column "Presence of optional subfields in the Per STA Info field" corresponding to Ack Type = 1 and TID = 15 should be changed from "N/A" to "Block Ack Bitmap"	As per comment	2017/1/9 9:42
7476	Lei Huang	225	1 9.3.1.20	40	7	E	Y	40.07 9.3.1.20	"multiple STA info field" should be changed to "multiple STA Info fields"	As per comment	2017/1/9 9:42
7477	Lei Huang	225	1 9.3.1.20	40	25	E	Y	40.25 9.3.1.20	"STA Info subfield" should be changed to "STA Info field"	1. Change "The format of the STA Info subfield in an HE NDP Announcement Frame is defined in Figure 9-51b (STA Info subfield format in an HE NDP Announcement frame)." to "The format of the STA Info field in an HE NDP Announcement Frame is defined in Figure 9-51b (STA Info field format in an HE NDP Announcement frame)." 2. replace the title of Figure 9-51b by "STA Info field format in an HE NDP Announcement frame"	2017/1/9 9:42

7478 Lei Huang	225	1 9.3.1.20	41	8	T	Y	41.08 9.3.1.20	"Feedback Type+Ng+codebook size" should be changed to "Feedback Type And Ng + Codebook Size" since Table 9-26a shows the joint encoding for two subfields instead of three subfields.	As per comment		2017/1/9 9:42
7479 Lei Huang	225	1 9.3.1.20	41	19	T	Y	41.19 9.3.1.20	It is better to change "MU+Ng4" to "MU, Ng=4" and change "MU+Ng16" to "MU, Ng=16" in Table 9-25a	As per comment		2017/1/9 9:42
7480 Lei Huang	225	1 9.3.1.20	41	12	T	Y	41.12 9.3.1.20	It is better to change "Ng4" to "Ng=4" and change "Ng16" to "Ng=16" in Table 9-25a	As per comment		2017/1/9 9:42
7481 Lei Huang	225	1 9.3.1.20	41	28	T	Y	41.28 9.3.1.20	There is no HE STA Info field. It is better to change "in the HE STA Info" to "in an STA Info field of the HE NDP Announcement frame"	As per comment		2017/1/9 9:42
7482 Lei Huang	225	1 9.3.1.23	41	47	T	Y	41.47 9.3.1.23	"(RA)" should be changed to "RA".	As per comment		2017/1/9 9:42
7483 Lei Huang	225	1 9.3.1.23	44	23	T	Y	44.23 9.3.1.23	"Table 22-13" should be changed to "Table 21-13".	As per comment		2017/1/9 9:42
7484 Lei Huang	225	1 9.3.1.23	44	27	T	Y	44.27 9.3.1.23	The HE-SIG-A field of an HE trigger-based PPDU does not contain the Number Of HE-LTF Symbols field. "Table 28-18 (HE-SIG-A field of an HE trigger-based PPDU)" should be changed to "Table 28-17 (HE-SIG-A field of an HE MU PPDU)".	As per comment		2017/1/9 9:42
7485 Lei Huang	225	1 9.3.1.23	44	22	T	Y	44.22 9.3.1.23	The description on relation between the number of HE-LTF symbols and the total number of space-time streams is confusing	Replacing "The number of HE-LTF symbols is a function of the total number of space-time streams. For non-OFDMA PPDUs, the encoding of the Number Of HE-LTF Symbols subfield is defined in Table 22-13. For OFDMA PPDUs, the number of HE-LTFs is greater than or equal to the maximum across RUs of the total number of space time streams. The encoding of the Number Of HE-LTF Symbols subfield is the same as the Number of HE-LTF Symbols in HE-SIG-A2, which is defined in Table 28-18 (HE-SIG-A field of an HE trigger-based PPDU)." by "The number of HE-LTF symbols is a function of N_STS,total as shown in Table 21-13. For a non-OFDMA PPDU, N_STS,total is the total number of space-time streams; while for an OFDMA PPDU, N_STS,total is the maximum of the total number of space time streams per RU. The encoding of the Number Of HE-LTF	2017/1/9 9:42
7486 Lei Huang	225	1 9.3.1.23	45	4	T	Y	45.04 9.3.1.23	80+80MHz is missing.	Replacing "For 160 MHz four SR fields for each 40 MHz" by "For 80+80 MHz or 160 MHz four SR fields for each 40 MHz"		2017/1/9 9:42
7487 Lei Huang	225	1 9.3.1.23	47	15	T	Y	47.15 9.3.1.23	There is no description about the Starting Spatial Stream subfield and the Number of Spatial Streams subfield in the SS Alocation subfield	Add the following description after Figure 9-52f: "The Starting Spatial Stream subfield indicates the stream index of the first spatial stream of the HE trigger-based PPDU response of the STA identified by the AID12 subfield. The Number of Spatial Streams subfield indicates the number of spatial streams of the HE trigger-based PPDU response of the STA identified by the AID12 subfield		2017/1/9 9:42
7488 Lei Huang	225	1 9.3.1.23	48	5	T	Y	48.05 9.3.1.23	M_PAD is defined in the same manner in both (9-ax1) and (9-ax2).	delete the definition of M_PAD under (9-ax2)		2017/1/9 9:42
7489 Lei Huang	225	1 9.3.1.23	48	17	E	Y	48.17 9.3.1.23	"Trigger Frame" should be changed to "Trigger frame"	As per comment		2017/1/9 9:42

7490	Lei Huang	225	1 9.3.1.23.4	50	59	T	Y	50.59 9.3.1.23.4	The description "The mapping of B19-B13 to RU Allocation subfield follows the RU index in Table 28-3 (Subcarrier indices for RUs in a 20 MHz HE PPDU) in an increasing order." is not complete and accurate.	replacing "The mapping of B19-B13 to RU Allocation subfield follows the RU index in Table 28-3 (Subcarrier indices for RUs in a 20 MHz HE PPDU) in an increasing order." by "For a 20 MHz PPDU, the mapping of B19-B13 to RU allocation follows the RU index in Table 28-3 (Subcarrier indices for RUs in a 20 MHz HE PPDU) in an increasing order. For a 40 MHz PPDU, the mapping of B19-B13 to RU allocation follows the RU index in Table 28-4 (Subcarrier indices for RUs in a 40 MHz HE PPDU) in an increasing order. For an 80 MHz, 160 MHz and 80+80 MHz PPDU, the mapping of B19-B13 to RU allocation follows the RU index in Table 28-5 (Subcarrier indices for RUs in an 80 MHz HE PPDU) in an increasing order."		2017/1/9 9:42
7491	Lei Huang	225	1 9.4.1.62	56	21	E	Y	56.21 9.4.1.62	"the HE MIMO Control Fields" should be changed to "the HE MIMO Control field"	As per comment	2017/1/9 9:42
7492	Lei Huang	225	1 9.4.1.62	56	12	T	Y	56.12 9.4.1.62	In HE MIMO Control field of HE Compressed Beamforming And CQI frame, Ng, Feedback Type and Codebook Information are separately encoded and 4-bit is required. However, in the HE NDP Annoucement frame, Ng, Feedback Type and Codebook Information are jointly encoded and only 3-bit is required. For consistency, it is better to use a unified method for encoding Ng, Feedback Type and Codebook information in both sounding related frames. In other words, in HE MIMO Control field, 3-bit joint encoding of Ng, Feedback Type and Codebook Information should be used, and thus there is one more reserved bit in HE MIMO Control field.	As per comment		2017/1/9 9:42
7493	Lei Huang	225	1 9.4.1.62	56	3	T	Y	56.03 9.4.1.62	The reference is incorrect.	Replacing "The HE MIMO Control field is included in every HE Compressed Beamforming frame (see 9.4.1.63 (HE Compressed Beamforming Report field))." by "The HE MIMO Control field is included in every HE Compressed Beamforming And CQI frame (see 9.6.28.2 HE Compressed Beamforming And CQI frame format).		2017/1/9 9:42
7494	Lei Huang	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62	"VHT Compressed Beamforming frame" should be changed to "HE Compressed Beamforming And CQI frame".	As per comment	2017/1/9 9:42
7495	Lei Huang	225	1 9.4.1.62	57	34	T	Y	57.34 9.4.1.62	"VHT Compressed Beamforming Report field" should be changed to "HE Compressed Beamforming Report field".	As per comment	2017/1/9 9:42
7496	Lei Huang	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	The description on Sounding Dialog Token Number is incorrect.	Please fix it.	2017/1/9 9:42
7497	Lei Huang	225	1 9.4.1.62	57	51	T	Y	57.51 9.4.1.62	HE Compressed Beamforming frame should be changed to "HE Compressed Beamforming And CQI frame".	As per comment	2017/1/9 9:42
7498	Lei Huang	225	1 10.3.2.10.2	119	25	T	Y	119.25 10.3.2.10.2	"UL MU Response Scheduling A-Control field" should be changed to "UL MU Response Scheduling Control subfield".	As per comment	2017/1/9 9:42
7499	Lei Huang	225	1 10.28.3	136	31	T	Y	136.31 10.28.3	"RDP A-Control field" should be changed to "RDP Control subfield".	As per comment	2017/1/9 9:42
7500	Lei Huang	225	1 28.5	372	57	T	Y	372.57 28.5	"non-OFDMA 160MHz and 80+80MHz" should be changed to "2*996-tone RU and non-OFDMA 160MHz and 80+80MHz".	As per comment	2017/1/9 9:42

7501	Lei Huang	225	1 28.5	372	63	T	Y	372.63 28.5	DCM stands for dual carrier modulation, not dual subcarrier modulation.	Change "Dual sub-carrier modulation (DCM)" to "Dual carrier modulation (DCM)"	2017/1/9 9:42
7502	Lei Huang	225	1 28.5	401	4	T	Y	401.04 28.5	In the title of Table 28-95, "HE-MCSs for optional non-OFDMA 160 MHz and 80+80 MHz" should be changed to "HE-MCSs for optional 2*996-tone RU and optional non-OFDMA 160MHz and 80+80MHz". Do the same thing for the title of Table 28-96 to Table 28-102.	As per comment	2017/1/9 9:42
7503	Lei Huang	225	1 28.3.3.1	228	17	T	Y	228.17 28.3.3.1	The reference is incorrect. The difference between OFDM and OFMA is illustrated in Figure 28-1, not Table 28-15.	Please fix it.	2017/1/9 9:42
7504	Lei Huang	225	1 28.3.3.2	229	5	E	Y	229.05 28.3.3.2	"...484-tone RU and 996-tone RU and 2*996-tone RU" should be changed to "...484-tone RU, 996-tone RU and 2*996-tone RU".	As per comment	2017/1/9 9:42
7505	Lei Huang	225	1 28.3.3.2	235	26	T	Y	235.26 28.3.3.2	There is lack of the description on 2*996-tone RU.	Add the following description on 2*996-tone RU: "A 2*996-tone RU consists of two 996-tone RUs, each located at each half of the PPDU bandwidth for 160 MHz and 80+80 MHz HE PPDU formats."	2017/1/9 9:42
7506	Lei Huang	225	1 28.3.3.5	237	18	T	Y	237.18 28.3.3.5	The reference is incorrect. The 20MHz-only HE STA is described in 28.3.3.6, not 28.3.9	Please fix it.	2017/1/9 9:42
7507	Lei Huang	225	1 27.8	188	26	T	Y	188.26 27.8	Throughout 27.8, "OMI A-Control field" should be changed to "OM Control subfield"	As per comment	2017/1/9 9:42
7508	Lei Huang	225	1 28.3.3.5	237	19	T	Y	237.19 28.3.3.5	"ROM" should be changed to "OMI"	As per comment	2017/1/9 9:42
7509	Lei Huang	225	1 28.3.3.8.3	239	18	T	Y	239.18 28.3.3.8.3	Throughout the whole paragragh, it is better to change "beamformee group" to "MU-MIMO group" for keeping consistency.	As per comment	2017/1/9 9:42
7510	Lei Huang	225	1 28.3.3.8.3	239	22	T	Y	239.22 28.3.3.8.3	What does a multiplexing information lookup table means? Further clarification is required.	Replacing "From a multiplexing information lookup table for Nuser,r, the ordered number of spatial streams for all members in the beamformee group in RU r, NSS,r,u, u = 1, ..., Nuser,r, is obtained." by "From the spatial configuration fields of user specific blocks for RU r and Nuser,r, the ordered number of spatial streams for all members in the MU-MIMO group in RU r, NSS,r,u, u = 1, ..., Nuser,r, is obtained."	2017/1/9 9:42
7511	Lei Huang	225	1 28.3.3.10.5	240	52	T	Y	240.52 28.3.3.10.5	The User Info field of the Trigger frame does not contain Address field. The AID12 field is used instead.	Changing "Address field" to "the AID12 field" in L52 and L54 of P240	2017/1/9 9:42
7512	Lei Huang	225	1 28.3.6.7	252	34	T	Y	252.34 28.3.6.7	Throughout 28.3.6.7, "Common Block field" should be changed to "Common field"	As per comment	2017/1/9 9:42
7513	Lei Huang	225	1 28.3.6.7	252	49	T	Y	252.49 28.3.6.7	The construction procedure of HE-SIG-B is not correct. Notice that there are two HE-SIG-B content channels. The HE-SIG-B symbols from the first HE-SIG-B content channel are duplicated over every odd numbered 20 MHz of the channel bandwidth while the HE-SIG-B symbols from the second HE-SIG-B content channel are duplicated over every even numbered 20 MHz of the channel bandwidth.	Please fix it.	2017/1/9 9:42
7514	Lei Huang	225	1 28.3.7	256	7	T	Y	256.07 28.3.7	For an HE trigger-based PPDU, the HE-MCS is carried in a User Info field of the Trigger frame soliciting the HE trigger-based PPDU.	Changing "For an HE trigger-based PPDU, it is carried in the User Info fields of the Trigger frame." to "For an HE trigger-based PPDU, it is carried in a User Info field of the Trigger frame soliciting the HE trigger-based PPDU."	2017/1/9 9:42

7515 Lei Huang	225	1 28.3.9	263	7	T	Y	263.07 28.3.9	"where N_HE-SIG-B is the number of OFDM symbols in the HE-SIG-B field" is redundant since N_HE-SIG-B has been defined in the previous page (see L15 of P262)	remove "where N_HE-SIG-B is the number of OFDM symbols in the HE-SIG-B field"	2017/1/9 9:42
7516 Lei Huang	225	1 28.3.11.5.4	321	18	T	Y	321.18 28.3.11.5.4	"N_DBPS.LAST.u = N_DBPS.LAST.init.u" should be changed to "N_DBPS.last.u = N_DBPS.last.init.u".	as per comment	2017/1/9 9:42
7517 Lei Huang	225	1 28.3.11.5.4	321	47	T	Y	321.47 28.3.11.5.4	"a_init" should be changed to "a"	as per comment	2017/1/9 9:42
7518 Lei Huang	225	1 28.3.15.3	344	22	T	Y	344.22 28.3.15.3	The reference for CQI-only feedback is incorrect.	change "9.4.1.64" to "9.4.1.65".	2017/1/9 9:42
7519 Lei Huang	225	1 28.3.12	337	27	T	Y	337.27 28.3.12	The third paragraph of clause 28.3.12 only involves packet extension for HE SU PPDU or HE extended range SU PPDU.	change "For an HE PPDU,..." to "For an HE SU PPDU or HE extended range SU PPDU,..."	2017/1/9 9:42
7520 Lei Huang	225	1 28.3.12	338	50	T	Y	338.50 28.3.12	The HE preamble is inclusive of RL-SIG and HE-SIG-A.	1. T_RL-SIG and T_HE-SIG-A should be removed from (28-114) as well as the equation of N_SYM following (28-114) 2. Update T_HE-PREAMBLE by including T_RL-SIG and T_HE-SIG-A	2017/1/9 9:42
7521 Lei Huang	225	1 28.3.12	339	3	T	Y	339.03 28.3.12	In 28.3.10.7.2, it has been mentioned that HE-SIG-A includes Pre-FEC Padding Factor subfield and PE Disambiguity subfield. In 9.3.1.23, it has also been mentioned that The Packet Extension subfield of the Common Info field indicates the packet extension duration of the trigger-based PPDU response. The first two bits indicate the pre-FEC padding factor and the third bit indicates the PE-Disambiguity. Therefore, the description in L3 to L17 of P339 including Table 28-38 is unnecessary.	1. remove Editor's Note in L1 of P339; 2. remove the description in L3 to L17 including Table 28-38.	2017/1/9 9:42
7522 Lei Huang	225	1 28.3.12	340	13	T	Y	340.13 28.3.12	For an HE extended range SU PPDU, the HE-SIG-A duration is represented by T_HE-SIG-A-R only	remove T_HE-SIG-A from T_HE-PREAMBLE for an HE extended range SU PPDU	2017/1/9 9:42
7523 Lei Huang	225	1 28.3.12	340	19	T	Y	340.19 28.3.12	HE-SIG-A field does not include the Packet Extension subfield	change "b_PE-Disambiguity is PE Disambiguity subfield in the Packet Extension subfield of the HE-SIG-A field" to "b_PE-Disambiguity is PE Disambiguity subfield of the HE-SIG-A field	2017/1/9 9:42
7524 Lei Huang	225	1 9.3.1.23	44	56	T	Y	44.56 9.3.1.23	Regarding packet extension, HE-SIG-A includes 2-bit pre-FEC padding factor subfield and 1-bit PE disambiguity subfield. However, the Trigger frame includes 3-bit packet extension subfield. For keeping consistency, it is better to split 3-bit packet extension subfield in the Trigger frame into a 2-bit pre-FEC padding factor subfield and 1-bit PE disambiguity subfield.	as per comment	2017/1/9 9:42
7525 Leonardo Lanante	225	1 9.4.2.220	93	37	T	N	93.37 9.4.2.220	The Value of OCW, OCWmin and OCWmax was directly based from CW, CWmax, and CWmin from EDCA. But due to the difference between OFDMA random access and DCF, the current equations for OCW, OCWmax and OCWmin are not optimal. Specifically, the current draft allows STAs to pick a zero OCW when the minimum OCW should be one to reflect the fact that it needs to wait for a TF to send a frame..	Redefine the equations for OCWmax, OCWmin and OCW . I have a prepared contribution for this.	2017/1/9 9:42
7526 Leonardo Lanante	225	1 9.3.1.9.7	37	51	T	N	37.51 9.3.1.9.7	AIDs for unassociated STAs are still undefefined.	Allow the AP to provide AIDs for unassociated STAs and make them eligible for scheduled OFDMA transmission.	2017/1/9 9:42

7527	Li-Hsiang Sun	225	1 10.3.2.3.7	114	32	T	Y	114.32 10.3.2.3.7	HE PPDU with 'all 1' in TXOP_DURATION should still have EIFS protection if only preamble is decoded by 3rd party STA. Clause 27.11.5 specifies conditions that it can be set to 'all 1' so it is a valid parameter	changed 'if a valid TXOP_DURATION parameter' to 'if there is duration information for NAV setting indicated in the TXOP_DURATION parameter'	2017/1/9 9:42
7528	Li-Hsiang Sun	225	1 10.3.2.4	115	32	T	Y	115.32 10.3.2.4	The next paragraph in 802.11-2016 states "In non-DMG BSS NAVTimeout period is equal to (2 x aSIFSTime) + (CTS_Time) + aRxPHYStartDelay + (2 x aSlotTime). The "CTS_Time" shall be calculated using the length of the CTS frame and the data rate at which the RTS frame used for the most recent NAV update was received.". This paragraph should be updated for 11ax as CTS responding to MU-RTS are sent with a constant CTS_Time	Add the 802.11-2016 paragraph in comment, and add "In case of responding to MU-RTS, CTS_Time is calculated using 6Mbps data rate in non-HT format"	2017/1/9 9:42
7529	Li-Hsiang Sun	225	1 10.3.2.10.3	121	1	T	Y	121.01 10.3.2.10.3	10.7.6.1 in 802.11-2016 states "The following rules determine whether a Control frame is carried in a non-HT, HT or VHT PPDU: --- Otherwise, the Control frame shall be carried in a non-HT PPDU ..." However, the case of MBA in Fig. 10-12c transmitted in HT, VHT, or HE PPDU are not covered	Add 10.7.6.1 in 802.11-2016 to ax draft, and revise the condition to avoid contradiction with baseline text.	2017/1/9 9:42
7530	Li-Hsiang Sun	225	1 10.3.5	122	11	T	Y	122.11 10.3.5	How to set attribute to enable duration based RTS but also disable length-based RTS? Currently disableing length based RTS by setting dot11RTSThreshold to larger than maximum PSDU, also disables the duration-based RTS, based on this sentence	In p122.11 Removes "If dot11RTSThreshold is larger than the maximum PSDU length, all PSDUs shall be delivered without RTS/CTS exchange" Add in clause C.3 dot11RTSThreshold OBJECT-TYPE, but remove "Setting this attribute to be larger than the maximum PSDU size has the effect of turning off the RTS/CTS handshake for frames of Data or Management type transmitted by this STA"	2017/1/9 9:42
7531	Li-Hsiang Sun	225	1 10.9	127	18	E	Y	127.18 10.9	The paragraph misses some newly introduced control ID	add description for value of 6	2017/1/9 9:42
7532	Li-Hsiang Sun	225	1 10.28.3	136	50	T	Y	136.50 10.28.3	How would a non-HE STA expect a response of MBA?	removes "Multi-STA BlockAck"	2017/1/9 9:42
7533	Li-Hsiang Sun	225	1 10.28.4	137	10	T	Y	137.10 10.28.4	If the RD initiator sends a multi-TID AMPDU with RDG=1, how does the RD responder determine the primary AC? In 10.9, it says "The HT Control field of all MPDUs containing the HT Control field aggregated in the same A-MPDU shall be set to the same value.", so it is difficult to determine which AC granted the RDG	Clarify "the same AC" means the lowest AC in case of a multi-TID AMPDU from RD initiator	2017/1/9 9:42
7534	Li-Hsiang Sun	225	1 27.4.3	159	34	T	Y	159.34 27.4.3	If the negotiated buffer size is within [1, 64], not only it satisfies the 1st bullet, it also satisfies all following bullets, so it can use a length 256 bitmap	Change in p159.36 [1, 256] to [65, 256] Change in p159.43 [1,128] to [65, 128] Change in p159.45 [1.256] to [129,256]	2017/1/9 9:42
7535	Li-Hsiang Sun	225	1 27.3.4.2	155	56	T	Y	155.56 27.3.4.2	How does an MPDU or S-MPDU carry more than 1 dynamic fragments?	removes "or more"	2017/1/9 9:42
7536	Li-Hsiang Sun	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2	Maximum A-MPDU Length Exponent definition and encoding are missing	moves p80.26~39 to the table	2017/1/9 9:42
7537	Li-Hsiang Sun	225	1 9.7.1	106	32	T	Y	106.32 9.7.1	The EOF field description does not take into account of ack-enabled Multi-TID A-MPDU, in which EOF could be set to 1 but not for padding and not for S-MPDU as described in the table	add 'Set to 1 in the MPDU delimiter of a multi-TID A-MPDU as described in 27.0.4' before 'Set to 0 otherwise'	2017/1/9 9:42

7538	Li-Hsiang Sun	225	1 10.2.7 (not exist)	113	22	T	Y	113.22 10.2.7 (not exist)	10.2.7 of 802.11-2016 specifies that 'an MSDU is transmitted using an HT-immediate or HT-delayed block ack agreement or when the MSDU or MMPDU is carried in an A-MPDU that does not contain a VHT single MPDU, in which case the MSDU or MMPDU is transmitted without fragmentation.'. The block ack agreement used in 11ax is considered HT-immediate BA agreement. This clause in baseline contradicts with dynamic fragementation	add 10.2.7 of 802.11-2016 to the ax draft and revise the condition in comment to allow dynamic fragmentation		2017/1/9 9:42
7539	Li-Hsiang Sun	225	1 27.3.3.4	154	41	T	Y	154.41 27.3.3.4	The level 3 dynamic fragmentation currently has its own BA action frame for BA agreement negotiation, unlike level 1 and 2 that uses ADDBA extention of the existing BA action frame. It should be consolidated using the same mechanism as in level 1 and 2	Revise the description and ADDBA extension to include level-3 negotiation		2017/1/9 9:42
7540	Li-Hsiang Sun	225	1 27.3.4.3	156	6	T	Y	156.06 27.3.4.3	The description misses the case that the receiver responding to a ack-enabled multi-TID A-MPDU	In L6 and L42, add 'A Multi-STA Block Ack when the recceived fragment is contained in a multi-TID A-MPDU that solicits an immediate response'		2017/1/9 9:42
7541	Li-Hsiang Sun	225	1 27.3.4.3	156	10	T	Y	156.10 27.3.4.3	It is not clear why MBA is tied to responding to soliciting S-MPDU carried in trigger-based PPDU. It could be sent as in Figure 10-12b using ack frame. In addition, MBA could be sent in UL as an ack to a DL-Multi-TID A-MPDU	In L 10 and L 46, remove "that contains the acknowledgement for the soliciting S-MPDU carried in an HE trigger-based PPDU"		2017/1/9 9:42
7542	Li-Hsiang Sun	225	1 27.10.3	193	19	T	Y	193.19 27.10.3	The sentence 'The STA shall not add an A-MPDU subframe with EOF equal to 0 after any A-MPDU subframe with EOF set to 1' is not correct because ack-enabled multi-TID A-MPDU could have EOF set to 1, followed by A-MPDU subframes from another TID	change to "The STA shall not add an A-MPDU subframe with EOF equal to 0 after any A-MPDU subframe with EOF set to 1 and MPDU Length field >0'		2017/1/9 9:42
7543	Li-Hsiang Sun	225	1 27.10.4	194	24	E	Y	194.24 27.10.4	This requirement is a duplicate of the requirement described in P195.16	remove the paragraph		2017/1/9 9:42
7544	Li-Hsiang Sun	225	1 27.3.4.1	155	52	T	Y	155.52 27.3.4.1	The capability of rx fragmentation level is not necessarily the same as what level of fragmentation preferred to tx. There should be a requirement that in ADDBA response frame the value of HE Fragmentation Operation subfield should not be greater than the value of HE Fragmentation Operation subfield in the ADDBA Request frame	add 'The value of HE Fragmentation Operation subfield in ADDBA Response frame shall not be greater than the value of HE Fragmentation Operation subfield in the ADDBA Request frame		2017/1/9 9:42
7545	Li-Hsiang Sun	225	1 27.5.2.6.2	173	33	T	Y	173.33 27.5.2.6.2	Is a new attempt to use UL OFDMA random access after a successful UL OFDMA based random acces transmission, considered 'Initial HE triggered-based PPDU transmission' in L30? If yes, what happens if the OBO counter is not 0 when new attempt starts, should OBO counter still needs to be re-initialized as described in L33?	describe whether a new attempt to use UL OFDMA should use the residual OBO counter values, or re-initialize it.		2017/1/9 9:42
7546	Li-Hsiang Sun	225	1 27.5.2.6.2	173	62	T	Y	173.62 27.5.2.6.2	It is not clear how STA without AID could participate the UL MU ack procedure in 10.3.2.10.3.	describe specifically how STA without AID acquires its ack following the procedure in 10.3.2.10.3, when there are multiple acks to multiple STA without AID		2017/1/9 9:42

7547	Lisa Ward	225	1 28.3.18.1	353	52	T	N	353.52 28.3.18.1	Not all 11ax signal analyzer solutions are capable of the current RBW (25 kHz) and VBW (kHz) settings and we'd like to recommend 30 khz RBW and 10 kHz VBW .. Since, the 11ax settings are based on scaling the settings of the legacy spectral mask, I tried to research the reasons behind the legacy 11a 100 KHz RBW and 30 KHz VBW settings in order to determine if there was some specific importance in those settings but was unable to find anything in the archived documents on the 802.11 website. Since I can find no specific reasons for the 100K and 30 KHz settings in legacy OFDM PHY, I can see no real value to setting the 11ax RBW and VBW requirements based on perfect scaling of them.	Change: Measurements shall be made using a 25 kHz resolution bandwidth and a 7.5 kHz video bandwidth. to: Measurements shall be made using a 30 kHz resolution bandwidth and a 10 kHz video bandwidth.		2017/1/9 9:42
7548	Lisa Ward	225	1 28.3.18.4.4	357	38	E	N	357.38 28.3.18.4.4	Consistent terminology? In table 28-11 for tone allocation related constants in OFDMA, it states that NST=NSD+NSP where NST is the total number of subcarriers per RU, NSD is the total number of complex data numbers per RU, and NSP is the number of pilot subcarriers. However, in equations 28-122 and 28-124 NST is defined as the total number of data tones of occupied RU. I wonder if for consistency/clarity, either the term NSD should be used OR change the NST definition in eq 28-122 and 28-124 to be defined as total number of subcarriers in occupied RU.	Change NST to NSD in equations 28-122 and 28-124 or change NST definitions in those equations to total number of subcarriers in used RU.		2017/1/9 9:42
7549	Lisa Ward	225	1 28.3.18.2	354	47	E	N	354.47 28.3.18.2	typo in subcarrier index in table 28-44, it says +3 to +3441 for the 80 MHz subcarrier indices. Suggest changing 3441 to 344	Change +3441 to +344		2017/1/9 9:42
7550	Lisa Ward	225	1 27.4.4.5	162	23	E	N	162.23 27.4.4.5	Missing word in following sentence or perhaps a type? & also a typo --too many '.' after 'context' . The AP may respond with group addressed Multi-STA BlockAck frame(s) in an HE MU PPDU if the receivers of group-addressed Multi-STA BlockAck frame announce the support the reception of MU Multi-STA BlockAck frame. The Ack Type field shall be set according to the acknowledgement context..	Change to "The AP may respond with group addressed Multi-STA BlockAck frame(s) in an HE MU PPDU if the receivers of group-addressed Multi-STA BlockAck frame announce they support the reception of MU Multi-STA BlockAck frame. The Ack Type field shall be set according to the acknowledgement context." OR "The AP may respond with group addressed Multi-STA BlockAck frame(s) in an HE MU PPDU if the receivers of group-addressed Multi-STA BlockAck frame announce the support of the reception of MU Multi-STA BlockAck frame. The Ack Type field shall be set according to the acknowledgement context."		2017/1/9 9:42
7551	Liwen Chu	225	1 9.4.2.200	74	4	E	Y	74.04 9.4.2.200	Change to "In a TWT element transmitted by a TWT requesting or scheduled STA, the TWT wake interval is equal to the average time that the TWT requesting STA or TWT scheduled STA expects to elapse between successive TWT SPs."	As in comment		2017/1/9 9:42
7552	Liwen Chu	225	1 27.6.2	176	23	T	Y	176.23 27.6.2	Remove "to the STA" from the sentence	As in comment		2017/1/9 9:42
7553	Liwen Chu	225	1 9.4.2.200	74	55	E	Y	74.55 9.4.2.200	temorary primary channel?	As in comment		2017/1/9 9:42
7554	Liwen Chu	225	1 9.4.2.218.2	78	50	T	Y	78.50 9.4.2.218.2	STA is the transmitter of A-BSR. It is not necessary to indicate whether a STA can transmit A-BSR.	As in comment		2017/1/9 9:42
7555	Liwen Chu	225	1 9.4.2.218.2	79	21	T	Y	79.21 9.4.2.218.2	There is no such thing of non-broadcast RU for group-addressed frame	Remove the capability bit		2017/1/9 9:42

7556	Liwen Chu	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2	The definition of "Maximum AMPDU Length Exponent" field is missing.	Add the definition.	2017/1/9 9:42
7557	Liwen Chu	225	1 9.4.2.218.3	79	42	T	Y	79.42 9.4.2.218.3	It is not necessary to add Dual Band Support in HE PHY Capabilities Information field. If it is 1, what does it mean and what is the purpose of it?	Remove Dual Band Support from the field.	2017/1/9 9:42
7558	Liwen Chu	225	1 9.4.2.218.3	83	22	T	Y	83.22 9.4.2.218.3	It is not necessary for a transmitter to announce its transmitting capability of a feature to the receiver.	Change the definition per the comment	2017/1/9 9:42
7559	Liwen Chu	225	1 9.4.2.218.3	83	34	T	Y	83.34 9.4.2.218.3	It is not necessary for a transmitter to announce its transmitting capability of a feature to the receiver.	Change the definition per the comment	2017/1/9 9:42
7560	Liwen Chu	225	1 9.4.2.218.4	86	60	T	Y	86.60 9.4.2.218.4	This is no such thing of Channel Bandwidth Set field	Use the defined field.	2017/1/9 9:42
7561	Liwen Chu	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	This paragraph should be removed since the following paragraph replaces it.	As in comment	2017/1/9 9:42
7562	Liwen Chu	225	1 9.4.2.221	94	53	T	Y	94.53 9.4.2.221	"except that a value 0 of the AIFSN field indicates that the AIFS is equal to the value of the MU EDCA Timer " This is ok for the first backoff per MU EDCA parameters after being triggered. The normative text doesn't say for the following backoff after scheduled by Trigger MU EDCA timer is set to the value of MU EDCA Timer.	Clarify the text and harmonize the normative behavior with the text here.	2017/1/9 9:42
7563	Liwen Chu	225	1 9.4.2.224	96	53	T	Y	96.53 9.4.2.224	The start time of SP per PPDU TX time is not good because of the retransmission of the frame: the receiver can't discard the duplicated frame. It is simpler to replace the offset field with a start timer field.	As in comment	2017/1/9 9:42
7564	Liwen Chu	225	1 9.7.1	107	1	T	Y	107.01 9.7.1	Change "VHT PPDU" to "VHT and HE PPDU"	As in comment	2017/1/9 9:42
7565	Liwen Chu	225	1 9.7.1	107	13	T	Y	107.13 9.7.1	Change the note to "NOTE--The format of the MPDU Length field maintains a common encoding structure for both HE, VHT and HT PPDUs. For HT PPDUs, only the MPDU Length Low subfield is used, while for VHT and HE PPDUs, both subfields are used."	As in comment	2017/1/9 9:42
7566	Liwen Chu	225	1 9.7.1	110	53	T	Y	110.53 9.7.1	Change to "One or more Trigger frames where the Trigger Type field is Basic Trigger, MU-BAR,or BSRP " to "One or more Trigger frames where the Trigger Type field is Basic Trigger, MU-BAR, or BSRP, or BQRP." Change to "Basic Trigger frame or BSRP Trigger frame only when AP transmits the A-MPDU" to "Basic Trigger frame, or BSRP Trigger frame or BQRP Trigger frame only when AP transmits the A-MPDU"	As in comment	2017/1/9 9:42
7567	Liwen Chu	225	1 10.3.2.4	114	51	T	Y	114.51 10.3.2.4	"If the STA is an HE STA, the STA is a TXOP holder, and the frame is solicited by the STA, then the STA shall not update its NAV." If the STA is a TXOP holder, the STA will never update the NAV per the received PPDU from the TXOP resopnder. This is true for 11a/b/g/n/ac STA, and is also true for HE STA. The reason is that the received Duration will not be larger than the NAV timer value.	Remove the sentence	2017/1/9 9:42
7568	Liwen Chu	225	1 10.3.2.4	114	49	T	Y	114.49 10.3.2.4	"If the STA is an HE STA and the STA is solicited for an immediate response by the PPDU carrying the received frame, the STA shall not update its NAV." This is not needed since the solicited STA is the receiver of the soliciting frame which is similar to NDPA in 11ac.	Remove the sentence	2017/1/9 9:42

7569	Liwen Chu	225	1 10.3.2.8a.3	117	29	T	Y	117.29 10.3.2.8a.3	"The MU-RTS frame is sent by the AP with which the STA is associated and the value of the basic NAV is 0" carrier sensing bullet already cover the text after and. The text before and is not necessary since the MU-RTS is always from the associated STA.	Removing the bullet		2017/1/9 9:42
7570	Liwen Chu	225	1 9.2.4.6.4.7	27	63	T	Y	27.63 9.2.4.6.4.7	Change "assist HE DL HE MU transmission" to "assist HE DL and UL HE MU transmission"	As in comment		2017/1/9 9:42
7571	Liwen Chu	225	1 27.5.1.3	163	16	T	Y	163.16 27.5.1.3	The channel query can be used by both UL and DL MU. Move the subclause outside of DL MU subclause and change the title accordingly.	As in comment		2017/1/9 9:42
7572	Liwen Chu	225	1 27.5.1.3	163	46	T	Y	163.46 27.5.1.3	Add management frame after QoS Null, QoS Data frames	As in comment		2017/1/9 9:42
7573	Liwen Chu	225	1 9.4.2.218.3	86	11	T	Y	86.11 9.4.2.218.3	It is atrange that DL MU on partial BW is defined only for RX side but UL MU on partial BW is defined for both TX and RX sides.	Harmonize the definiition.		2017/1/9 9:42
7574	Liwen Chu	225	1 27.5.2.1	164	24	T	Y	164.24 27.5.2.1	Class A and B should also apply to UL MU also.	Change the text per the comment.		2017/1/9 9:42
7575	Liwen Chu	225	1 27.5.2.4	170	26	T	Y	170.26 27.5.2.4	Here the virtual carrier sensing is not needed if the responding are Ack/BA and the length is less than 418. However CS Required is set to 0 when the length is less than 418 and the responding from all STAs are Ack/BA.	harmonize them		2017/1/9 9:42
7576	Liwen Chu	225	1 27.16	204	56	T	Y	204.56 27.16	It seems a 20MHz HE STA doesn't need to implement VHT features. For sure HE devices in 2.4GHz band don't need to implement VHT features.	Change the text per the comment.		2017/1/9 9:42
7577	Liwen Chu	225	1 27.16	205	1	T	Y	205.01 27.16	The whole paragraph can't be true in 5GHz and 2.4GHz bands.	change the text.		2017/1/9 9:42
7578	Liwen Chu	225	1 27.16	205	18	T	Y	205.18 27.16	2.4GHz band is missing.	Change the text per the comment.		2017/1/9 9:42
7579	Liwen Chu	225	1 27.16	205	24	T	Y	205.24 27.16	"Channel Center Frequency Segment 2" is missing. Add it.	As in comment		2017/1/9 9:42
7580	Liwen Chu	225	1 27.16	205	37	T	Y	205.37 27.16	"Channel Center Frequency Segment 2" is missing. Add it.	As in comment		2017/1/9 9:42
7581	Liwen Chu	225	1 27.15.2	201	36	T	Y	201.36 27.15.2	change the paragraph to "An HE non-AP STA may transmit an HE MU PPDU to a peer STA if it has received from the peer STA an HE Capabilities element with the UL MU PPDU Support field equal to 1; otherwise the STA shall not transmit an HE MU PPDU to the peer STA"	As in comment		2017/1/9 9:42
7582	Liwen Chu	225	1 27.15.2	201	44	T	Y	201.44 27.15.2	Two issues here: 1). HE TRIG PPDU in STBC shouldn't use HE TRIG PPDU since HE TRIG PPDU is only from STA to AP. As a TXOP holder, AP can send wantever PPDU it wants to use. This also contradicts with the following bullet. So HE TRIG PPDU should be removed from the bullet. 2. HE MU PPDU should be added to the bullet.	As in comment		2017/1/9 9:42
7583	Liwen Chu	225	1 27.15.2	201	53	T	Y	201.53 27.15.2	This bullet should be removed since there is no support of transmiting FTM in various HE PPDU formats.	As in comment		2017/1/9 9:42
7584	Liwen Chu	225	1 27.15.3	202	21	T	Y	202.21 27.15.3	"and BW shall be 20 MHz" should be removed from the bullet since responding BW rules already cover this.	As in comment		2017/1/9 9:42

7585	Liwen Chu	225	1 27.15.3	202	30	T	Y	202.30 27.15.3	Change "When the Supported HE-MCS and NSS set of the receiving STA or STAs is not known, the transmitting STA shall transmit using a <HE-MCS, NSS> tuple in the basic HE-MCS and NSS set." to "When the Supported HE-MCS and NSS set of the receiving STA or STAs is not known, the transmitting STA shall transmit using a <HE-MCS, NSS> tuple in the basic HE-MCS and NSS set if basic HE MCS and NSS set is not idle, otherwise the transmitting STA shall transmit using a <HE-MCS, NSS> tuple in the mandatory HE-MCS and NSS set"	As in comment	2017/1/9 9:42
7586	Liwen Chu	225	1 27.15.3	202	33	T	Y	202.33 27.15.3	The text is ambiguous since the protection levels are different per the environment.	Delete the last sentence and add the related text to protection subclause if necessaey.	2017/1/9 9:42
7587	Liwen Chu	225	1 27.15.4.1	203	9	T	Y	203.09 27.15.4.1	There is no such thing of Supported HE-MCS and NSS Set field.	Use the correct name.	2017/1/9 9:42
7588	Liwen Chu	225	1 27.15.4.1	203	14	T	Y	203.14 27.15.4.1	There is no such thing of Rx HE-MCS Map subfield	Use the correct name.	2017/1/9 9:42
7589	Liwen Chu	225	1 27.15.4.2	203	35	T	Y	203.35 27.15.4.2	There is no such thing of Supported HE-MCS and NSS Set field.	Use the correct name.	2017/1/9 9:42
7590	Liwen Chu	225	1 27.15.4.2	203	40	T	Y	203.40 27.15.4.2	There is no such thing of Tx HE-MCS Map subfield	Use the correct name.	2017/1/9 9:42
7591	Liwen Chu	225	1 27.15.4.2	203	54	T	Y	203.54 27.15.4.2	Change "should" to "shall"	As in comment	2017/1/9 9:42
7592	Liwen Chu	225	1 27.15.4.2	203	61	T	Y	203.61 27.15.4.2	Change "should" to "shall"	As in comment	2017/1/9 9:42
7593	Liwen Chu	225	1 27.14.3.1	200	39	T	Y	200.39 27.14.3.1	The following behavior should be added: the AP shall send DL PPDU to STA or trigger UL transmission from STA if the STA has its bit in TIM element being set to 1.	As in comment	2017/1/9 9:42
7594	Liwen Chu	225	1 27.14.3.1	200	62	T	Y	200.62 27.14.3.1	The bahavior is too restrict. When the AP has only DL PPDUs to be transmitted to a STA in TWT broadcast SP and all the buffered frames are discarded, the AP doesn't need to set the bit for the STA in TIM element to 1 in the following TWT SP.	As in comment	2017/1/9 9:42
7595	Liwen Chu	225	1 27.14.3.1	200	45	T	Y	200.45 27.14.3.1	What is the type of the TWT SP?	Clarify it.	2017/1/9 9:42
7596	Liwen Chu	225	1 27.14.3.1	200	49	T	Y	200.49 27.14.3.1	Change "At the beginning of these periodic TWT SPs," to "At the beginning of these periodic TWT SPs with the TWT flow identifier field set to 3,"	As in comment	2017/1/9 9:42
7597	Liwen Chu	225	1 27.14.3.1	200	60	T	Y	200.60 27.14.3.1	What is the type of the TWT SP?	Clarify it.	2017/1/9 9:42
7598	Liwen Chu	225	1 9.4.2.200	73	4	T	Y	73.04 9.4.2.200	Add Ack/BA as the responding frame from scheduled STA. It makes no sense to only do sounding without data frame transmission.	As in comment	2017/1/9 9:42
7599	Liwen Chu	225	1 9.4.2.200	73	30	T	Y	73.30 9.4.2.200	Add Ack/BA as the responding frame from scheduled STA. It makes no sense to only do sounding without data frame transmission.	As in comment	2017/1/9 9:42
7600	Liwen Chu	225	1 9.4.2.200	72	53	T	Y	72.53 9.4.2.200	Add the following restriction "The AP doesn't transmit a TIM frame or a FILS discovery frame including a TIM element at the beginning of the TWT SP."	As in comment	2017/1/9 9:42
7601	Liwen Chu	225	1 27.14.2	200	28	T	Y	200.28 27.14.2	Clarify the following behavior: In a TWT SP whose Broadcast subfield is 1 and TWT Flow Identifier subfield is 2, can a Trigger frame with no contention RU be transmitted? If the answer is yes, can Trigger frame that has no allocated contention RU follow Trigger frame which has Cascade Indication field set to 0 and has contention RU?	Clarify it.	2017/1/9 9:42
7602	Liwen Chu	225	1 27.14.1	199	11	T	Y	199.11 27.14.1	Add the following intra-PPDU power save rules: if a PPDU is from OBSS, the STA can desicard the frame until the end of the PPDU.	As in comment	2017/1/9 9:42

7603	Liwen Chu	225	1 27.12	198	50	T	Y	198.50 27.12	There is no such thing as dot11PPEThresholdsMappingTable.	Clarify it.	2017/1/9 9:42
7604	Liwen Chu	225	1 27.11.4	197	25	T	Y	197.25 27.11.4	Add the following text: "an non-AP STA should use A1, A2, A3 fields for SR decision"	As in comment	2017/1/9 9:42
7605	Liwen Chu	225	1 27.10.4	193	44	T	Y	193.44 27.10.4	Change the text to "An HE transmitter shall not aggregate MPDU that asks for Ack in a multiple-TID A-MPDU to the HE recipient unless the HE transmitter received the recipient's HE Capabilities element with Ack Enabled Multi-TID A-MPDU Support subfield being set to 1"	As in comment	2017/1/9 9:42
7606	Liwen Chu	225	1 27.10.4	194	19	T	Y	194.19 27.10.4	It is not clear whether Action frame accounts for a TID.	Clarify it.	2017/1/9 9:42
7607	Liwen Chu	225	1 27.10.4	194	40	T	Y	194.40 27.10.4	"When any of the buffers is empty" is not right since this means when the buffer of one TID related to the primary AC is empty.	Change to "when the buffers of all TIDs related to the primay AC are empty."	2017/1/9 9:42
7608	Liwen Chu	225	1 27.10.4	194	51	T	Y	194.51 27.10.4	The paragraph at L51 is similar to the paragraph at L24. One of them should be removed.	As in comment	2017/1/9 9:42
7609	Liwen Chu	225	1 27.10.4	195	15	T	Y	195.15 27.10.4	The paragraph at P195 L15 is similar to the paragraph at P194 L24. One of them should be removed.	As in comment	2017/1/9 9:42
7610	Liwen Chu	225	1 27.9.2.1	190	51	T	Y	190.51 27.9.2.1	This is not a sentence.	Delete it.	2017/1/9 9:42
7611	Liwen Chu	225	1 27.9.2.1	190	53	T	Y	190.53 27.9.2.1	Change "SR delay entry" to SR_Delay	As in comment	2017/1/9 9:42
7612	Liwen Chu	225	1 27.9.2.2	192	22	T	Y	192.22 27.9.2.2	The sentence is wrong. Here is an example, suppose the STA which sets OBSS PD level to -76 dbm, it receives the signal strength of inter-BSS PPDU is -72dbm, and the STA set NAV and assumes medium busy. Per "The minimum OBSS_PDlevel used by the STA shall be above the received signal strength of the inter-BSS PPDU, which means that the maximum TXPWRmax shall be calculated with OBSS_PDlevel equal to the received signal strength of the inter-BSS PPDU , with Equation (27-1).", the OBSS PD level is changed to -72dbm and TX Power is changed to TX Power Ref- (-72+82).	Update the sentence or deletre it.	2017/1/9 9:42
7613	Liwen Chu	225	1 27.8.1	188	29	T	Y	188.29 27.8.1	Why management frmae is not mentioned here?	Add management frame.	2017/1/9 9:42
7614	Liwen Chu	225	1 27.8.2	189	8	T	Y	189.08 27.8.2	The meaning of the following sentence is not clear "After transmitting the acknowledgement frame immediate response immediate acknowledgement for the frame containing the OMI A-Control field, the OMI responder may transmit subsequent SU PPDUs or MU PPDUs that are addressed to the OMI initiator."	Clarify it.	2017/1/9 9:42
7615	Liwen Chu	225	1 27.8.1	188	48	T	Y	188.48 27.8.1	The following behavior should be added: a ROMI intiator shall not transmit ROMI to a STA that doesn't support the receiption of A-Control with ROMI.	As in comment	2017/1/9 9:42
7616	Liwen Chu	225	1 27.8.3	189	18	T	Y	189.18 27.8.3	Before sending TOMI, the initiator should make sure that the responder can receive OMI Control. Arguably in this case the reponder can always receive the OMI Control since the responder is always AP. But the sentence is not clear that the responder is always an AP.	Change the sentence to "An OMI initiator that is a non-AP STA may indicate changes in its transmit parameters by sending a frame that contains the OMI A-Control field to the OMI responder which is an AP."	2017/1/9 9:42
7617	Liwen Chu	225	1 27.8	188	17	T	Y	188.17 27.8	NSS behavior is not harmonized with HE Capabilities element.	Change the nomative behavior to make them consistent.	2017/1/9 9:42

7618	Liwen Chu	225	1 27.7.1	179	54	T	Y	179.54 27.7.1	Add the following sentence: "An HE STA can negotiate broasdcast TWT values, as defined in 10.43 (Target wake time (TWT)), subject to the additional rules and restrictions that are defined in 27.7.3 (broadcastTWT agreements)."	As in comment	2017/1/9 9:42
7619	Liwen Chu	225	1 27.7.1	179	66	T	Y	179.66 27.7.1	Change the text to "STAs need not be made aware of the TWT values of other STAs or that a TWT service period (SP) can be used to exchange frames with other STAs."	As in comment	2017/1/9 9:42
7620	Liwen Chu	225	1 27.7.2	180	31	T	Y	180.31 27.7.2	Change "If the TWT responding STA is an AP then it may set the Responder PM Mode subfield to 1 only if all non-AP STAs, which are associated to it, indicate support of TWT in the role of a TWT requester" to "If the TWT responding STA is an AP then it may set the Responder PM Mode subfield to 1 only if all non-AP STAs, which are associated to it, indicate support of TWT in the role of a TWT requester and the AP announces the TWT Required subfield to 1 in its HE Operation element"	As in comment	2017/1/9 9:42
7621	Liwen Chu	225	1 27.7.2	180	48	T	Y	180.48 27.7.2	20MHz operation can be indicated by OMI, operation mode management frame. It is not necessary to add another method.	Change "May set the TWT Channel subfield in the TWT element it transmits to a value that corresponds to the primary channel of the BSS to indicate a 20 MHz operation; otherwise it shall set it to 0" to "Shall set the TWT Channel subfield in the TWT element it transmits to 0"	2017/1/9 9:42
7622	Liwen Chu	225	1 27.7.2	181	4	T	Y	181.04 27.7.2	This is not necessary for the following reasons: 1, TWT Information can do this. 2, TWT Information provide accurate behavior, something can be done something can't be done. 3, with unsoliciited TWT response, anything can be done which is bad.	Remove "An HE AP may send an unsoliciited TWT response frame with the Trigger subfield equal to 1 to an HE non-AP STA that has set the TWT Requester Support subfield to 1 in the HE Capabilities elements that it transmits to the AP."	2017/1/9 9:42
7623	Liwen Chu	225	1 27.7.2	181	13	T	Y	181.13 27.7.2	"(for both implicit TWT and trigger-enabled TWT)" should be "(for both non trigger-enabled TWT and trigger-emabled TWT)"	As in comment	2017/1/9 9:42
7624	Liwen Chu	225	1 27.7.2	181	19	T	Y	181.19 27.7.2	With these rules, a trigger-enabled TWT allows DL MU with Trigger/A-Control trigger + UL MU acknowledgement only frame exchange. But DL MU +BA/Ack+BAR+BA frame exchange is disallowed.	Allow DL MU +BA/Ack+BAR+BA frame exchange in Trigger-enabled TWT. The simple way is to define trigger-enabled TWT as the STA's transmission is always triggered/solicited by AP's transmission.	2017/1/9 9:42
7625	Liwen Chu	225	1 27.7.2	181	22	T	Y	181.22 27.7.2	"The TWT responding STA that intends to transmit additional Trigger frames during a trigger-enabled TWT SP shall set the Cascade Indication field of the Trigger frame to 1 to indicate that it will transmit another Trigger frame within the same TWT SP. The TWT responding STA shall set the Cascade Indication field to 0 when the Trigger frame is the last Trigger frame of the TWT SP or when the Trigger frame is sent outside of a TWT SP." The sentences are not in line with the behavior of STA's definiiton about the last Trigger frame to a STA.	Harmonize them.	2017/1/9 9:42

7626	Liwen Chu	225	1 27.7.2	182	6	T	Y	182.06 27.7.2	The behavior of a STA which is scheduled by Trigger with Cascade Indicate being 0 is not defined.	Add the following text:"The finishing of frame exchange solicted by a Trigger frame with the Cascade Indication field equal to 0 that is intended to the STA and does not allocate any random RU during an unannounced TWT"		2017/1/9 9:42
7627	Liwen Chu	225	1 27.7.3.1	182	28	T	Y	182.28 27.7.3.1	Change to "A TWT scheduling STA is an HE AP with dot11TWTOptionActivated equal to true that includes Broadcast TWT Support being set to 1 in HE Capabilities element and optionally a broadcast TWT element in the Beacon frame, and follows the rules described in 27.7.3.2 (Rules for TWT scheduling STA).". The reason for this is that since STA and AP can negotiate broadcast TWT. At the begining of BSS operation, the AP may not include broadcast TWT in Beacon.	As in comment		2017/1/9 9:42
7628	Liwen Chu	225	1 27.7.3.1	182	39	T	Y	182.39 27.7.3.1	A STA can both have individual TWT and broadcast TWT. So the following bullet should be deleted: "Has not negotiated any implicit TWT agreement with the HE AP as described in 27.7.2 (Individual TWT agreements)."	As in comment		2017/1/9 9:42
7629	Liwen Chu	225	1 27.7.3.2	184	11	T	Y	184.11 27.7.3.2	"Alternate TWT when the periodic TWT is being modified" This should be removed since TWT Information provide better solution.	As in comment		2017/1/9 9:42
7630	Liwen Chu	225	1 27.7.3.2	184	14	T	Y	184.14 27.7.3.2	Change "It shall set the Trigger field to 0 to indicate an implicit TWT." to "It shall set the Trigger field to 0 to indicate an non Trigger-enabled TWT."	As in comment		2017/1/9 9:42
7631	Liwen Chu	225	1 27.7.3.2	184	42	T	Y	184.42 27.7.3.2	It should be TWT scheduled STA here. For TWT scheduling STA, there is no restriction about the types of frames to be transmitted.	As in comment		2017/1/9 9:42
7632	Liwen Chu	225	1 27.7.3.2	184	42	T	Y	184.42 27.7.3.2	For Flow ID 3, whether random RU can be allocated in UL MU is missing. Add it.	As in comment		2017/1/9 9:42
7633	Liwen Chu	225	1 27.7.3.3	185	38	T	Y	185.38 27.7.3.3	Whether a scheduled STA can do transmission is decided by the MU EDCA parameters. No additional rules are needed.	Change the text per the comment.		2017/1/9 9:42
7634	Liwen Chu	225	1 27.7.3.3	185	42	T	Y	185.42 27.7.3.3	"A TWT scheduled STA that is in PS mode may go to doze state after receiving the Beacon frame and shall be in the awake state at a broadcast TWT start time during which the STA intends to exchange frames with the TWT scheduling STA." This is not harmonized with AP's trigger rules: in a bloadcast TWT SP, AP should schedule the STAs that negotiate the TWT SP with it.	Harmonize them.		2017/1/9 9:42
7635	Liwen Chu	225	1 27.7.3.4	185	42	T	Y	185.42 27.7.3.4	The behavior of the scheduling AP is not complete. Add the following rule: an AP shall not incude Per STA Info of a STA in a TWT SP which is announced in a Beacon whose TBTT is not the STA's wake TBTT.	As in comment		2017/1/9 9:42
7636	Liwen Chu	225	1 27.7.4	187	12	T	Y	187.12 27.7.4	This should not be mandatory at the receiving side.	Change the reception of it to be optional		2017/1/9 9:42
7637	Liwen Chu	225	1 27.6.2	176	26	T	Y	176.26 27.6.2	"otherwise it shall be set to the MAC address of the STA whose AID is included in the STA Info field" This is not true. Otherwise HE sounding can't be used in IBSS, MBSS.	modify it to allow HE sounding in IBSS, MBSS.		2017/1/9 9:42
7638	Liwen Chu	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	Replace YY-1 with realreference.	As in comment		2017/1/9 9:42

7639	Liwen Chu	225	1 27.6.2	177	30	T	Y	177.30 27.6.2	CCFS 2 is not in VHT Operation Information field which needs to be used to decide maxmum 26-tone RU. Include CCFS 2.	As in comment	2017/1/9 9:42
7640	Liwen Chu	225	1 27.6.2	178	22	T	Y	178.22 27.6.2	Change "shall compute the HE compressed beamforming feedback after receiving the HE NDP" to "shall compute the HE compressed beamforming feedback per NDPA's requirement (Feedback Type + Ng + codebook size) after receiving the HE NDP"	As in comment	2017/1/9 9:42
7641	Liwen Chu	225	1 27.6	176	1	T	Y	176.01 27.6	Sounding feedback segmentation rules are missing from the draft. Add them.	As in comment	2017/1/9 9:42
7642	Liwen Chu	225	1 27.5.1.1	162	52	T	Y	162.52 27.5.1.1	A-MPDU in HE DL MU PPDU doesn't use the rules in 27.10.3. Padding rules for A-MPDU in VHT PPDU is used.	As in comment	2017/1/9 9:42
7643	Liwen Chu	225	1 27.5.1.1	162	56	T	Y	162.56 27.5.1.1	Paragraph at L56 is duplicated with the paragraph at L44.	Remove the paragraph at L44	2017/1/9 9:42
7644	Liwen Chu	225	1 27.5.2.2.1	165	21	T	Y	165.21 27.5.2.2.1	This requirement must be true to the last Trigger frame in A-MPDU. Change the text accordingly.	As in comment	2017/1/9 9:42
7645	Liwen Chu	225	1 27.5.2.2.2	166	56	T	Y	166.56 27.5.2.2.2	This paragraph is duplicated with the rules in multi-TID A-MPDU subclause. Delete it.	As in comment	2017/1/9 9:42
7646	Liwen Chu	225	1 27.5.2.2.2	167	6	T	Y	167.06 27.5.2.2.2	It shouldn't be any value from 0 to 7. The value should be less than the STA's maximal TC levels being announced.	As in comment	2017/1/9 9:42
7647	Liwen Chu	225	1 27.5.1	162	36	T	Y	162.36 27.5.1	The rules about when the DL MU frame exchange is successful is missing from the draft.	Add the related rules.	2017/1/9 9:42
7648	Liwen Chu	225	1 27.5.2.3	167	54	T	Y	167.54 27.5.2.3	Add random OFDMA here	As in comment	2017/1/9 9:42
7649	Liwen Chu	225	1 27.5.2.3	169	50	T	Y	169.50 27.5.2.3	MAC padding of A-MPDU in HE TRIG PPDU should be in subcaluse 27	Change the padding subclause.	2017/1/9 9:42
7650	Liwen Chu	225	1 27.5.2.4	170	37	T	Y	170.37 27.5.2.4	"both of the NAVs are considered" Clarify when both NAVs are considered for UL MU transmission.	As in comment	2017/1/9 9:42
7651	Liwen Chu	225	1 27.5.2.6.1	172	35	T	Y	172.35 27.5.2.6.1	It seems reasonable to add BQRP here.	As in comment	2017/1/9 9:42
7652	Liwen Chu	225	1 27.5.2.6.1	173	48	T	Y	173.48 27.5.2.6.1	"If the selected RU is considered busy as a result of either physical or virtual carrier sensing, then the HE STA shall not transmit its HE trigger-based PPDU in the randomly selected RU and it randomly selects any one of the RUs that are assigned to AID value 0 in the subsequent Trigger frame." This violates backoff basic assumption and may create high collision. Change it to "If the selected RU is considered busy as a result of either physical or virtual carrier sensing, then the HE STA shall not transmit its HE trigger-based PPDU in the randomly selected RU and it start another backoff by doubling its CW"	As in comment	2017/1/9 9:42
7653	Liwen Chu	225	1 27.4.1	157	28	T	Y	157.28 27.4.1	This is also applicable to IBSS and MBSS case.	As in comment	2017/1/9 9:42
7654	Liwen Chu	225	1 27.4.1	157	36	T	Y	157.36 27.4.1	Change to "An HE AP may send a Multi-STA BlockAck frame in response to an HE trigger-based PPDU"	As in comment	2017/1/9 9:42
7655	Liwen Chu	225	1 27.4.2	158	53	T	Y	158.53 27.4.2	Change supporting 32 bit capability field to supporting bitmap optimization capability. If a STA does not announce supporting bitmap optimization capability, another STA can't send bitmap 32 to it, bitmap 32/64 to it when 128 bitmap is negotiated, bitmap 32/64/128 to it when 256 bitmap is negotiated.	As in comment	2017/1/9 9:42
7656	Liwen Chu	225	1 27.4.4.1	160	39	T	Y	160.39 27.4.4.1	MU-BAR Trigger is not allowed to be aggregated in A-MPDU. This is like BAR is not allowed to be aggregated in A-MPDU	As in comment	2017/1/9 9:42

7657	Liwen Chu	225	1 27.4.4.5	162	22	T	Y	162.22 27.4.4.5	Since broadcast RU is used to carry group-addressed M-BA. It is mandatory supported by all STAs. Reqrite the paragraph.	As in comment	2017/1/9 9:42
7658	Liwen Chu	225	1 27.3.3.3	154	7	T	Y	154.07 27.3.3.3	Change "...that are not sent under a block ack.." to "...that are sent under a block ack...".	As in comment	2017/1/9 9:42
7659	Liwen Chu	225	1 27.2.1	149	16	T	Y	149.16 27.2.1	The priority of partial AID is missing. Add it.	As in comment	2017/1/9 9:42
7660	Liwen Chu	225	1 27.2.1	152	15	T	Y	152.15 27.2.1	Change "for all the ACs from which QoS Data frames were transmitted in the HE trigger-based PPDU" to "for all the ACs from which QoS Data frames were transmitted successfully in the HE trigger-based PPDU"	As in comment	2017/1/9 9:42
7661	Liwen Chu	225	1 11.49	144	27	T	Y	144.27 11.49	Move the content in 11.49 to subclause 27	As in comment	2017/1/9 9:42
7662	Liwen Chu	225	1 10.3.2.4	114	52	T	Y	114.52 10.3.2.4	"If the STA is an HE STA, the STA is a TXOP holder, and the frame is solicited by the STA, then the STA shall not update its NAV." This sentence is not needed since in 11baseline, a TXOP holder will not update its NAV. Delete it.	As in comment	2017/1/9 9:42
7663	Liwen Chu	225	1 10.3.2.8a.3	117	5	T	Y	117.05 10.3.2.8a.3	Add the folowing text: if the AP detects idle medium, the AP may send CF-End frame before backoff.	As in comment	2017/1/9 9:42
7664	Liwen Chu	225	1 10.3.2.10.1	118	37	T	Y	118.37 10.3.2.10.1	Update Figure 10-11 through removing Ack from the PPDU solicted by BAR	As in comment	2017/1/9 9:42
7665	Liwen Chu	225	1 10.3.2.10.3	120	1	T	Y	120.01 10.3.2.10.3	Change "an AP may send either multiple BlockAck frames (or Ack frames) in an HE MU PPDU, or a Multi-STA BlockAck frame (see 27.4 (Block acknowledgement)). Multi-STA BlockAck frame transmissions are allowed in a non-HT Duplicate PPDU, HT PPDU, VHT PPDU, HE SU PPDU, HE extended range SU PPDU and OFDMA HE MU PPDU." to "an AP may send either multiple BlockAck frames (or Ack frames) in an HE MU PPDU, or a Multi-STA BlockAck frame (see 27.4 (Block acknowledgement)). Multi-STA BlockAck frame transmissions are allowed in a non-HT Duplicate PPDU, HT PPDU, VHT PPDU, HE SU PPDU, HE extended range SU PPDU and OFDMA HE MU PPDU where each multi-STA BlockAck frame is in a broadcast RU."	As in comment	2017/1/9 9:42
7666	Liwen Chu	225	1 10.9	126	43	T	Y	126.43 10.9	The paragraph started with "If the HT variant HT Control field is present in an MPDU, the DEI subfield provides information on the drop eligibility of the..." is missing. Add it back.	As in comment	2017/1/9 9:42
7667	Liwen Chu	225	1 10.22.2.5	130	44	T	Y	130.44 10.22.2.5	Add MU puncturing mode here.	As in comment	2017/1/9 9:42
7668	Liwen Chu	225	1 10.22.2.7	132	1	T	Y	132.01 10.22.2.7	The bullet at L1 should be separated to two cases, DL MU + UL MU acknowledgement, Trigger + UL MU acknowledgement.	As in comment	2017/1/9 9:42
7669	Liwen Chu	225	1 10.22.2.7	131	51	T	Y	131.51 10.22.2.7	HE MU sounding is missing fron the frame exchange sequence. Add it.	As in comment	2017/1/9 9:42
7670	Liwen Chu	225	1 10.22.2.8	133	15	T	Y	133.15 10.22.2.8	Add HE sounding subclause	As in comment	2017/1/9 9:42
7671	Lochan Verma	225	1 9.3.1.23	44	57	T	N	44.57 9.3.1.23	The sentence "first two bits indicate the pre-FEC padding factor and third bit indicates the PE-Disambiguity" is confusing since endianess is not stated.	The bits B34-B35 indicate the pre-FEC padding factor and the bit B36 indicates the PE-disambiguity	2017/1/9 9:42

7672 Lochan Verma	225	1 28.3.12	338	41	T	N	338.41 28.3.12	The sentence "The first two bits in the packet extension subfield indicate the pre-FEC padding factor and the thir bit indicates the PE-disambiguity" does not belong here. Further, if it is retained, the language needs improvement	Delete the sentence.	2017/1/9 9:42
7673 Lochan Verma	225	1 28.3.12	338	59	T	N	338.59 28.3.12	"b_{PE-Disambiguity} is B2 of the Packet Extension subfield of the Common Info field in the Trigger frame" is inaccurate	Replace with "b_{PE-Disambiguity} corresponds to the bit B36 in the Trigger frame"	2017/1/9 9:42
7674 Lochan Verma	225	1 28.3.12	339	8	T	N	339.08 28.3.12	Delete Table 28-38 and its references since the "Packet Extension field in HE-SIG-A" does not exist. In lieu we have "pre-FEC padding factor" and "PE Disambiguity" fields in HE-SIG-A.	refer to comment	2017/1/9 9:42
7675 Lochan Verma	225	1 28.3.12	339	1	T	N	339.01 28.3.12	Remove Editor's Note	One method to resolve Editor's comment is as follows. Delete lines 1 - 18. Edit line 20: "The Pre-FEC Padding Factor in HE-SIG-A is encoded as shown in Table 28-39 (Pre-FEC Padding Factor subfield encoding)." Edit line 40: "The PE-Disambiguity subfield in HE-SIG shall be set to 1 if the condition in Equation (28-115) is met, otherwise it shall be set to 0."	2017/1/9 9:42
7676 Lochan Verma	225	1 28.3.12	338	50	T	N	338.50 28.3.12	Define "m" in the Equation 28-114	refer to comment	2017/1/9 9:42
7677 Lochan Verma	225	1 9.3.1.23	44	50	T	N	44.50 9.3.1.23	"Values 0 - 61 maps to -20 dBm to 40 dBm" is inaccurate in Table 9-25e.	"Values 0 - 60 maps to -20 dBm to 40 dBm"	2017/1/9 9:42
7678 Lochan Verma	225	1 28.3.14.2	341	63	T	N	341.63 28.3.14.2	Reference to MSB bit of the UL Headroom subfield can be clarified further by referring to the exact bit location.	Replace "Note that the MSB bit of the UL Headroom subfield being set to 1 indicates that the STA is transmitting the HE trigger-based PPDU at its minimum Tx^{STA}_{pwr} for the assigned MCS" with "that the bit B5 of the UL Headroom subfield being set to 1 indicates that the STA is transmitting the HE trigger-based PPDU at its minimum Tx^{STA}_{pwr} for the assigned MCS	2017/1/9 9:42
7679 Lochan Verma	225	1 28.3.10.7	274	17	T	N	274.17 28.3.10.7	Specify that values 2-3 are reserved (Table 281-16)	For an HE extended range SU PPDU "Values 2 and 3 are reserved"	2017/1/9 9:42
7680 Lochan Verma	225	1 28.2.2	221	15	T	N	221.15 28.2.2	define in spec meaning of "right" 106-tone RU	refer to comment	2017/1/9 9:42
7681 Lochan Verma	225	1 9.4.1.63	60	53	E	N	60.53 9.4.1.63	In Table 9-76c the 20 MHz (S,E) FB tone corresponding to RU index 8 in the last column of the table is missing	Please refer to 11-16-0836/r1, Table YY-1.	2017/1/9 9:42
7682 Lochan Verma	225	1 9.4.1.63	62	7	E	N	62.07 9.4.1.63	In Table 9-76d the 20 MHz (S,E) FB tone corresponding to RU index 0 in the last column are incorrect.	Please refer to 11-16-836/r1, Table YY-2.	2017/1/9 9:42
7683 Lochan Verma	225	1 9.4.1.63	62	25	E	N	62.25 9.4.1.63	In Table 9-76d the 20 MHz (S,E) FB tone corresponding to RU index 8 in the last column of the table is missing	Please refer to 11-16-0836/r1, Table YY-2.	2017/1/9 9:42
7684 Lochan Verma	225	1 9.4.2.218.3	84	56	T	N	84.56 9.4.2.218.3	Beamformee STS for <= 80' and 'NSTS total for <= 80 MHz' capabilities should be combined into one capability. They mean the same thing since Nsts,total = beamformee STS value	Delete 'Nsts Total for <= 80 MHz'	2017/1/9 9:42
7685 Lochan Verma	225	1 9.4.2.218.3	84	56	T	N	84.56 9.4.2.218.3	Beamformee STS for > 80' and 'NSTS total for > 80 MHz' capabilities should be combined into one capability. They mean the same thing since Nsts,total = beamformee STS value	Delete 'Nsts Total for > 80 MHz'	2017/1/9 9:42
7686 Lochan Verma	225	1 27.6.3	179	1	E	N	179.01 27.6.3	Rules for segmented feedback in HE sounding is missing text from 11-16-773/r4, which was motioned and accepted (CR Motion 95, Aug 2016)	See comment	2017/1/9 9:42

7687 Lochan Verma	225	1 28.3.11.9	327	14	T	N	327.14 28.3.11.9	There is a typo here missing something in the sentence. After "frequency diversity for a", should point out what kind of RU it is here (a 26-, 52, 106-, 242-, 484-, or 996-tone RU).	Refer to comment	2017/1/9 9:42
7688 Lochan Verma	225	1 27.5.1.1	162	46	T	N	162.46 27.5.1.1	Downlink MU-MIMO on Partial Bandwidth Rx' is no HE Capability	Replace with ""An AP shall not transmit to a STA an HE MU PPDU with HE-SIG-B assigning MU-MIMO RU in an DL OFDMA PPDU when the RU does not span the entire PPDU bandwidth, to a STA from which it has not received an HE Capabilities element with DL MU-MIMO on Partial Bandwidth subfield set to 1". "	2017/1/9 9:42
7689 Lochan Verma	225	1 27.5.1.1	162	56	T	N	162.56 27.5.1.1	DL OFDMA With MIMO Support is no capability in HE capabilities	Delete lines 56-59.	2017/1/9 9:42
7690 MARC EMMELMANN	225	1 0	0	0	G	Y	0.00 0	The current amendment to the standard has been produced by a process which was subject to dominance. Technical content contained in the draft has been produced by an interest group external to IEEE 802.11. Produced technical content has been voted into the draft under a process which was subject to "dominance" as concluded by the IEEE 802.11 / EC investigation. Technical content requires a 75% approval to be included in the draft. Several votes conducted to include technical submissions in the draft were conducted while the process was dominated by members of the external interest group. Even though companies having had participated in the interest group have declared that they would no longer participate in the interest group, the established state is that the technical content of the draft was (partially) created	Apply the special measures to all subsequent votes on the TGax amendment; especially the working group voter pool and any subsequent voter pools should be subject to special measures.	2017/1/9 9:42
7691 Mark Hamilton	225	1 1	1	1	E	Y	1.01 1	11ah D10.0 includes the following editorial instruction: Change "[a] VHT Single MPDU" to "[an] S-MPDU" throughout the baseline draft. This needs to be applied to the baseline quoted text in 11ax.	Change "[a] VHT Single MPDU" to "[an] S-MPDU" throughout the draft	2017/1/9 9:42
7692 Mark Hamilton	225	1 3.2	3	35	E	N	3.35 3.2	For native speakers, the phrase is "a high" (not "an high").	Change "an high" to "a high". Also at P6L42.	2017/1/9 9:42
7693 Mark Hamilton	225	1 3.2	6	53	T	Y	6.53 3.2	The phrases "HE PPDU", "HE BSS", "HE MU/SU PPDU" and "HE-MCS" are used in the text, similarly to the equivalent VHT/HT phrases. These terms should be well-defined.	Define "HE PPDU", similar to HT PPDU and VHT PPDU. Same for "BSS", "MU PPDU", "SU PPDU", "extended range SU PPDU", "trigger-based PPDU", and "MCS".	2017/1/9 9:42
7694 Mark Hamilton	225	1 3.2	6	58	T	Y	6.58 3.2	Define OFDMA (we only have "non-OFDMA")	Add a defintion for OFDMA: Orthogonal Frequency Division Multiple Access (OFDMA): An OFDM-based multiple access scheme where different subsets of subcarriers are allocated to different users of the channel, allowing simultaneous data transmission to or from several users of the channel.	2017/1/9 9:42
7695 Mark Hamilton	225	1 3.2	6	58	T	Y	6.58 3.2	Add a definition of RU	Add a defintition of RU: Resource Unit (RU): A group of subcarriers used within OFDMA to allocate subchannels to users of the channel.	2017/1/9 9:42
7696 Mark Hamilton	225	1 4.3	9	7	E	Y	9.07 4.3	Clause 4 introduction for HE makes more sense after VHT (4.3.14). Maybe that is what's meant?	Change "4.3.12" to "4.3.14"	2017/1/9 9:42
7697 Mark Hamilton	225	1 4.3.14a	9	20	T	Y	9.20 4.3.14a	Combination of "shall support operation ... only" is confusing. It shall only support such operation?	Reword to clarify the relation of "shall support" and "only". Suggest something like "shall support operation in a mode with only 20 MHz channel bandwidth". (If this use of "mode" isn't yet another problem.)	2017/1/9 9:42

7698	Mark Hamilton	225	1 4.3.14a	9	12	T	Y	9.12 4.3.14a	Why say HE works between 1 GHz and 6 GHz, and then only describe 5 GHz and 2.4 GHz operation, and relation to VHT and HT? If HE only works in those bands, just say so.	Change "frequency bands between 1 GHz and 6 GHz" to "the 2.4 GHz and 5 GHz frequency bands".	2017/1/9 9:42
7699	Mark Hamilton	225	1 4.3.14a	9	18	T	Y	9.18 4.3.14a	A VHT STA only optionally supports 160 MHz or 80+80 MHz. Likewise for HE. So, an HE non-AP STA that does not support 160 MHz or does not support 80+80 MHz, is not "also a VHT non-AP STA"?	Reword to relfect intent. Since the requiremnent for bandwidth operation seem to be the same for HE and VHT, perhaps just leave this list of operating modes as "when not operating in 20 MHz-only bandwidth"	2017/1/9 9:42
7700	Mark Hamilton	225	1 4.3.14a	9	24	T	Y	9.24 4.3.14a	An HE AP in 2.4 GHz should also be an HT AP	Add "An HE AP is also an HT AP"	2017/1/9 9:42
7701	Mark Hamilton	225	1 4.3.14a	9	29	T	Y	9.29 4.3.14a	These features are not present in an HT AP, either.	Delete "non-AP". Same thing on P9L48.	2017/1/9 9:42
7702	Mark Hamilton	225	1 4.3.14a	9	52	T	Y	9.52 4.3.14a	What is "dynamic fragmentation level 0"? (The PICS has no reference for it, either)	Clarify what is meant by "dynamic fragmentation level 0", probably in 27.3.2, and put in the reference in the PICS	2017/1/9 9:42
7703	Mark Hamilton	225	1 4.3.14a	9	65	T	Y	9.65 4.3.14a	This statement is not intended to be normative, but a declaration that the normative capability is specified later in the text	Change "may" to "can"	2017/1/9 9:42
7704	Mark Hamilton	225	1 6.3.3.3.2	11	26	T	Y	11.26 6.3.3.3.2	HE Capabilities and HE Operation values are only present if they were present in a matching Probe Reponse or Beacon for the this BSSDesciptor.	Add, in the Description column, similar language to that in 802.11-2016 for HT Capabilities and VHT Capabilities, to both the HE Capabilities and HE Operation rows.	2017/1/9 9:42
7705	Mark Hamilton	225	1 6.3.4.2.4	12	14	T	Y	12.14 6.3.4.2.4	MLME-JOIN needs to check for unsupported HE-MCS in the Basic HE-MCS and NSS Set.	Add a change to 6.3.4.2.4, to add a paragraph after the similar VHT paragraph: "If the MLME of an HE STA receives an MLME-JOIN.request primitive with a SelectedBSS parameter containing a Basic HE-MCS And NSS Set field in the HE Operation parameter that contains any unsupported <HE-MCS, NSS> tuple, the MLME response in the resulting MLME-JOIN.confirm primitive shall contain a ResultCode parameter that is not set to the value SUCCESS." Same thing in 6.3.11.2.4.	2017/1/9 9:42
7706	Mark Hamilton	225	1 6.3.27	13	58	T	Y	13.58 6.3.27	MLME-DLS.confirm needs HE Capabilities, like MLME-DLS.indication.	Add HE Capabilities parameter and row to MLME-DLS.confirm, similar to the baseline for HT/VHT Capabilities for this primitive.	2017/1/9 9:42
7707	Mark Hamilton	225	1 8.3.5.2.2	15	34	T	Y	15.34 8.3.5.2.2	How is STA_INDEX different from USER_INDEX?	Remove the new parameter. Merge the reference to Table 28-1 into the existing text for USER_INDEX on condition of an HE MU PPDU.	2017/1/9 9:42
7708	Mark Hamilton	225	1 9.2.4.1.8	19	40	T	Y	19.40 9.2.4.1.8	Bad use of "can". This does not appear to be a declarative statement that this is defined elsewhere, but rather a future potential statement.	Change "can" to "might". Same thing at P19L49.	2017/1/9 9:42
7709	Mark Hamilton	225	1 9.2.4.5.4	20	44	T	Y	20.44 9.2.4.5.4	Ambiguous addition. Also, unnecessary behavioral text.	Presumably, the two paragraphs before the insertion are for the cases when the frame is not carried in a DL HE MU PPDU. So, add "For a frame not carried in a DL HE MU PPDU, and ..." to the beginning of both paragraphs. Reword the added text, following the colon, to "An immediate response in an HE Trigger-based PPDU is expected." Delete the following sentence completely, as this is behavior described in clause 10.	2017/1/9 9:42
7710	Mark Hamilton	225	1 9.2.4.5.6	21	2	T	Y	21.02 9.2.4.5.6	Addition causes ambiguity. A sentence is added that starts "A non-AP HE STA uses ...". Is this intended to be in addition to how other STAs use it, or an exclusive (exhaustive) list of the STAs that use it? (There is no other text saying how other STAs use it, hence the confusion caused.)	Add text describing which other STAs (HE APs, non-HE STAs, etc.?) use this subfield, and what they are indicating, if it is different from what a non-AP HE STA is indicating.	2017/1/9 9:42

7711 Mark Hamilton	225	1 9.2.4.5.6	21	6	T	Y	21.06 9.2.4.5.6	Poor change of "might" to "can". "Can" is discouraged, because it causes potential confusion. Generally, agreed (per Style Guide) that 'can' is used when there is a normative statement giving the option, that is made elsewhere, and the text with 'can' is referencing that statement. That is not the case here. 'Might' is the better choice, as this is a possible future action that a device could take, without any normative text for the stuation.	Revert the change from 'might' to 'can', so the baseline text ('might') remains unchanged.	2017/1/9 9:42
7712 Mark Hamilton	225	1 9.2.4.5.6	21	13	T	Y	21.13 9.2.4.5.6	Why overload the meaning of this subfield, for HE versus non-HE transmitters? This reaults in receivers that are compatible with both HE and pre-HE peers to process the field values differently depending on the source's capabilities (which are potentially non-obvious from the frame itself.)	Remove the HE versus non-HE distinction.	2017/1/9 9:42
7713 Mark Hamilton	225	1 9.2.4.6.4.1	22	60	T	Y	22.60 9.2.4.6.4.1	Unnecessary constraint. If a Control subfield with Control ID equal to 0 (UL MU response scheduling) is present, then the entire Aggregated Control field is filled, so "first" is meaningless.	Delete the sentence "The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence.	2017/1/9 9:42
7714 Mark Hamilton	225	1 9.2.4.6.4.1	22	60	T	Y	22.60 9.2.4.6.4.1	There is no clear constraint that all the Control subfields must have total length of 26 bits or less.	Add a sentence, "The total length of all Control subfields contained in the Aggregate Control subfield must be 26 bits or less."	2017/1/9 9:42
7715 Mark Hamilton	225	1 9.2.4.6.2	24	24	T	Y	24.24 9.2.4.6.2	Can refers to normative permission, not appropriate in this note	Change "can not satisfy" to "is unable to satisfy"	2017/1/9 9:42
7716 Mark Hamilton	225	1 9.2.4.6.4.3	24	54	T	Y	24.54 9.2.4.6.4.3	Can refers to normative permission, not appropriate here	Change "can receive" to "is capable of receiving"	2017/1/9 9:42
7717 Mark Hamilton	225	1 9.2.4.6.4.3	25	1	T	Y	25.01 9.2.4.6.4.3	Can refers to normative permission, not appropriate here	Change "can transmit to "is capable of transmitting	2017/1/9 9:42
7718 Mark Hamilton	225	1 9.2.4.6.4.4	25	28	E	Y	25.28 9.2.4.6.4.4	For everyone's sanity, but a hyphen in all occurances of "HE MCS"	Replace "HE MCS" with "HE-MCS" throughout	2017/1/9 9:42
7719 Mark Hamilton	225	1 9.2.4.6.4.5	27	9	T	Y	27.09 9.2.4.6.4.5	This is a normative permission. In clause 9, state it declaratively.	Change "can remain" to "optionally remains"	2017/1/9 9:42
7720 Mark Hamilton	225	1 9.2.4.6.4.7	28	53	T	Y	28.53 9.2.4.6.4.7	Use of "may" in a NOTE	Change "may" to "might"	2017/1/9 9:42
7721 Mark Hamilton	225	1 9.2.4.7.1	29	57	T	Y	29.57 9.2.4.7.1	Also reference HE Capabilities Information field, which has further MPDU length info (Length Exponent)	Add Table 9-262z to the "see also" in the HE PPDU column	2017/1/9 9:42
7722 Mark Hamilton	225	1 9.2.4.7.1	30	25	E	Y	30.25 9.2.4.7.1	Reference should be to HE PHY characteristics table	Change reference from Table 21-29 to Table 28-46, in HE PPDU column	2017/1/9 9:42
7723 Mark Hamilton	225	1 9.2.5.2	30	65	E	N	30.65 9.2.5.2	Add to the editing instructions to renumber after the insertion	Add "... and renumber appropriately" to the editing instructions.	2017/1/9 9:42
7724 Mark Hamilton	225	1 9.2.5.2	31	33	T	Y	31.33 9.2.5.2	Requirement is too vague. How many "multiple BlockAck frames, Ack frames" should be accounted for?	Specify the requirement in sufficient detail to be implementable/testable.	2017/1/9 9:42
7725 Mark Hamilton	225	1 9.3.1.8.2	33	54	E	Y	33.54 9.3.1.8.2	Modification to obsolete text. Subclause 9.3.1.8.2 is marked as obsolete in 802.11-2016.	Remove this change.	2017/1/9 9:42
7726 Mark Hamilton	225	1 9.3.1.9.1	34	23	T	Y	34.23 9.3.1.9.1	The implication of adding "or the address of the recipient STA..." is that this is not always the transmitter of the soliciting frame. If that is the case (there is a different possibility for transmitter and recipient), that case needs to be clarified. Also, "the recipient STA whose data/management frames are acknowledged" is confusing.	Delete after the "or", or clarify when this other alternative is supposed to be used. Reword the end of the sentence to clarify the STA being referenced. (STAs don't "own" frames, so "whose" is confusing. Perhaps it is the STA that transmitted the frames being acknowledged?) Same thing at P34L33 (for the HE non-AP STA).	2017/1/9 9:42
7727 Mark Hamilton	225	1 9.3.1.9.1	34	25	E	N	34.25 9.3.1.9.1	Suggest a new paragraph for the Multi-STA Block Ack case	Start a new paragraph at the first occurance of "An HE AP that transmits"	2017/1/9 9:42
7728 Mark Hamilton	225	1 9.3.1.9.1	34	27	T	Y	34.27 9.3.1.9.1	AID is not a subfield of the Multi-STA BlockAck frame, Per STA Info is the subfield.	Change "AID" to "Per STA Info". ("An HE AP that transmits a Multi-STA BlockAck frame with a single _Per STA Info_ subfield set the RA field ...") Same thing in the next setence, for the HE non-AP STA.	2017/1/9 9:42

7729 Mark Hamilton	225	1 9.3.1.9.1	34	28	E	Y	34.28 9.3.1.9.1	Clarification	Add "all", to clarify that "the same value of the AID subfield in all Per STA Info subfields" is required. (Also, make "values" singular.) Same thing for the non-AP stentence, following.	2017/1/9 9:42
7730 Mark Hamilton	225	1 9.3.1.9.1	34	30	E	N	34.30 9.3.1.9.1	Clarification and simplification.	Change sentence to "Since an HE non-AP STA always transmits ..., it sets the RA field to the TA field ..."	2017/1/9 9:42
7731 Mark Hamilton	225	1 9.3.1.9.1	35	50	T	Y	35.50 9.3.1.9.1	The baseline text that talks about the "GCR field" in subclause 9.3.1.9.1 (802.11-2016 P678L3) will need to be updated, since the subfield has been removed.	TGak has not made its modifications to this text either. Appropriate, and building/matching changes will need to be worked out.	2017/1/9 9:42
7732 Mark Hamilton	225	1 9.3.1.9.3	36	36	T	Y	36.36 9.3.1.9.3	Ambigous use of "can only". Use declarative verbs in clause 9.	Reword this NOTE: "A Compressed ... is not sent to an ... whose ... is not 3." Same thing at P39L30.	2017/1/9 9:42
7733 Mark Hamilton	225	1 9.3.1.9.7	37	23	T	Y	37.23 9.3.1.9.7	There appears to be no such terms as "multi-STA multi-TID" or "multi-STA single TID"	Delete "multi-TID, and multi-STA single TID"	2017/1/9 9:42
7734 Mark Hamilton	225	1 9.3.1.9.7	37	46	T	Y	37.46 9.3.1.9.7	Per STA Info is a poor choice of name, since this subfield can be repeated more than once for a given STA.	Change 'Per STA Info' subfield name to 'Per AID TID Info' subfield. Change the first subfield within this subfield from 'Per AID TID Info' to 'AID TID Info', since there is only one of these per 'Per AID TID Info', and it provides the AID and TID information for that 'Per AID TID' pair.	2017/1/9 9:42
7735 Mark Hamilton	225	1 9.3.1.9.7	37	59	T	Y	37.59 9.3.1.9.7	AIDs are 14 bits. The AID subfield here is a truncated AID.	Change "the AID" to "the 11 least significant bits of the AID"	2017/1/9 9:42
7736 Mark Hamilton	225	1 9.3.1.9.7	38	4	T	Y	38.04 9.3.1.9.7	This is a normative statement, and shouldn't be a NOTE.	Change text to normal (normative) text instead of a NOTE.	2017/1/9 9:42
7737 Mark Hamilton	225	1 9.3.1.9.7	38	15	T	Y	38.15 9.3.1.9.7	Circular definition of BASSC subfield format. The sentence says, "When B0 of the Fragment Number subfield of the Block Ack Starting Sequence Control subfield is 0, the Block Ack Starting Sequence Control subfield is as defined in Figure 9-28." But, without knowing the format of hte BASSC subfield (if it is defined per Figure 9-28 or not), the receiver can't find B0 of the Fragment Number subfield.	Add a paragraph, before the sentence at P39L1: "The Block Ack Starting Sequence Control subfield format, if present, is as defined in Figure 9-28. " Change the start of the paragraph at P38L36, to: "When B0 of the Fragment Number subfield of the Block Ack Starting Sequence Control subfield is 0, the Block Ack Bitmap subfield of the BA Information field conatins an 8-octet, 16-octet, 32-octet or 4-octet bitmap subfield depending on B2-B1 of the Fragment Number subfield ..."	2017/1/9 9:42
7738 Mark Hamilton	225	1 9.3.1.20	40	22	T	Y	40.22 9.3.1.20	If the previously reserved bits in the Sounding Dialog Token field are to be used to distinguish between a VHT NDP Announcement and an HE NDP Announcement, that should be stated explicitly, with appropriate changes to Figure 9-50 and related text.	Add text, a generic VHT/HE NDP Announcement frame format (with "variable" sized STA Info field), and an updated Figure 9-50, indicating a new use for B1 of the Sounding Dialog Token field, as the VHT/HE identifier, that distinguishes these two formats of the STA Info field. Delete the paragraph at P40L22, instead putting this concept earlier in the subclause (near Figure 9-50). Move the baseline text and Figure 9-49 to follow this new text, explicitly for the VHT/HE field set to 0 case. Replace the first sentence at P40L6 with something like "When the VHT/HE field is set to 1, the VHT/HE NDP Announcement frame format is shown in Figure 9-51a."	2017/1/9 9:42
7739 Mark Hamilton	225	1 9.3.1.20	40	39	T	Y	40.39 9.3.1.20	No description of the AID11 subfield.	Insert paragraph: "The AID11 subfield contains the least significant 11 bits of the AID of the STA expected to process this STA Info subfield. The AID11 subfield is equal to zero if the STA is an AP, mesh STA, or a member of an IBSS."	2017/1/9 9:42
7740 Mark Hamilton	225	1 9.3.1.20	41	8	T	Y	41.08 9.3.1.20	Use of "+" for natural language "and" is a poor choice. It can be confused with addition. Also, which bits in the column relate to which subfield is unclear	Change the column heading to "Feedback Type And Ng, and Codebook Size subfield values". Either split the column into two, to indicate which bits are which subfield, or provide a bit mapping hint similar to "B25, B26, B28".	2017/1/9 9:42

7741	Mark Hamilton	225	1 9.3.1.20	41	28	T	Y	41.28 9.3.1.20	How does the Disambiguation subfield prevent this? There is no explanation anywhere I can find.	Add a description (here, or perhaps better in clause 10 or 27) of how this mechanism works.	2017/1/9 9:42
7742	Mark Hamilton	225	1 9.3.1.23	42	26	T	Y	42.26 9.3.1.23	"can" is not appropriate for a normative permission. Use declarative verbs in clause 9.	Change "can include an optional ... and optional ..." to "optionally includes a ... and ..."	2017/1/9 9:42
7743	Mark Hamilton	225	1 9.3.1.23	43	2	T	Y	43.02 9.3.1.23	Use 'shall' for normative requirements.	Change "are required to" to "shall"	2017/1/9 9:42
7744	Mark Hamilton	225	1 9.3.1.23	43	5	T	Y	43.05 9.3.1.23	Use normative verbs to state requirements (or non-requirements)	Change "are not required to consider" to "may ignore"	2017/1/9 9:42
7745	Mark Hamilton	225	1 9.3.1.23	45	36	T	Y	45.36 9.3.1.23	This sentence is confusing. Also, there is no need to say that all User Info fields come before the Padding, that is part of the format per Figure 9-52c.	Reword: "All User Info fields with AID12 not equal to zero appear before any User Info fields with AID12 equal to zero."	2017/1/9 9:42
7746	Mark Hamilton	225	1 9.3.1.23	47	44	T	Y	47.44 9.3.1.23	The Padding field appears to always be "present", just potentially zero length, per Equation 9-ax1. But this text assumes it is non-zero length, but not always present.	Align the text and the Equation. Suggest to remove the "0" case from the Equation, as that allows the text to talk about the special AID without a lot of wording to special-case the zero length padding case.	2017/1/9 9:42
7747	Mark Hamilton	225	1 9.3.1.23	47	46	T	Y	47.46 9.3.1.23	"STAID" here is probably referring to the AID12 subfield of the User Info field. That should be more clear. Also, the Padding field doesn't have any such subfields, so it needs to be explained that this parsed is as if there were a User Info field starting here, so the parser knows it has hit the Padding. Also, per Equation 9-ax1 and 9-ax2, the Padding field is always 2 or 4 octets.	Change "STAID[11:0]" to "AID12". Reword this and the preceeding sentences as, "The Padding field of the Trigger frame, if present, is 2 or 4 octets. The Padding field starts with 0xFFF in the first 12 bits, thus corresponding to a User Info field with the special value of 0xFFF in the AID12 field, and the rest of the bits of the Padding field are all set to one."	2017/1/9 9:42
7748	Mark Hamilton	225	1 9.3.1.23	47	56	T	Y	47.56 9.3.1.23	Math equation is a little messed up.	Add a multiplication glyph between N_DBPS and m_PAD.	2017/1/9 9:42
7749	Mark Hamilton	225	1 9.3.1.23	48	4	T	Y	48.04 9.3.1.23	Math equation is a little messed up. What is "SHORT"?	Replace the comma with a multiplication glyph between N_DBPS and m_PAD. Delete "SHORT" (or explain what it means).	2017/1/9 9:42
7750	Mark Hamilton	225	1 9.3.1.23.1	48	60	T	Y	48.60 9.3.1.23.1	Can refers to normative permission, not appropriate here	Change "can be aggregated by a STA" to "the STA supports aggregating"	2017/1/9 9:42
7751	Mark Hamilton	225	1 9.3.1.23.1	48	64	T	Y	48.64 9.3.1.23.1	This is a normative statement, and shouldn't be a NOTE.	Change text to normal (normative) text instead of a NOTE.	2017/1/9 9:42
7752	Mark Hamilton	225	1 9.3.1.23.4	50	28	E	Y	50.28 9.3.1.23.4	Starting at P50L28 through P51L16 (with exception of the two NOTES about the Trigger Dependent fields) is duplicative of text in 9.3.1.23, for all Trigger frames.	Delete the text from P50L28 to P51L16, except for the two NOTES about Trigger Dependent fields. (These should be NOTEs, as covered by a separate comment.)	2017/1/9 9:42
7753	Mark Hamilton	225	1 9.3.1.23.4	50	43	T	Y	50.43 9.3.1.23.4	The NOTES in 9.3.1.23.4 about the Trigger Dependent fields (both are not present) is normative text, and should not be NOTEs.	Change the text at P50L43 and P51L15 to normal (normative) text instead of NOTEs.	2017/1/9 9:42
7754	Mark Hamilton	225	1 9.3.3.6	53	20	T	Y	53.20 9.3.3.6	Association Request doesn't have a TWT element, according to 9.3.3.5.	Either remove this condition from Association Response, or add TWT element to Assocation Request. Same thing for Reassociation Request/Response.	2017/1/9 9:42
7755	Mark Hamilton	225	1 9.4.1.11	55	54	E	Y	55.54 9.4.1.11	Reference error - Quiet Time Period Action frame is in subclause 9.6.29.	Change clause reference for Quiet Time Period Action frame to 9.6.29.	2017/1/9 9:42
7756	Mark Hamilton	225	1 9.4.1.63	58	25	T	Y	58.25 9.4.1.63	This looks like a definitive, normative requirement.	Change "may take" to "takes"	2017/1/9 9:42
7757	Mark Hamilton	225	1 9.4.2.3	67	44	T	Y	67.44 9.4.2.3	Draft 11ak is using values 125 and 124.	Change "125" to "123"	2017/1/9 9:42
7758	Mark Hamilton	225	1 9.4.2.27	68	19	T	Y	68.19 9.4.2.27	"A STA" is non-specific, but this information is for _this_ STA	Change "A STA" to "The STA" in both occurrances.	2017/1/9 9:42
7759	Mark Hamilton	225	1 9.4.2.218.2	77	55	T	Y	77.55 9.4.2.218.2	Can refers to normative permission, not appropriate here	Change "can be concurrently received by a STA" to "the STA is capable of receiving concurrently"	2017/1/9 9:42
7760	Mark Hamilton	225	1 9.4.2.218.2	77	39	T	Y	77.39 9.4.2.218.2	"a STA" is non-specific, but this information is for _this_ STA	Change "a STA" to "the STA" throughout this subclause (3 occurances)	2017/1/9 9:42
7761	Mark Hamilton	225	1 9.4.2.218.2	78	21	T	Y	78.21 9.4.2.218.2	Can refers to normative permission, not appropriate here	Change "can aggregate" to "is capable of aggregating"	2017/1/9 9:42
7762	Mark Hamilton	225	1 9.4.2.218.2	78	19	E	Y	78.19 9.4.2.218.2	Potentially confusing language. Reword	Change the Encoding description to "Set to 1 less than the number of TIDs of QoS Data frames that an HE STA is capable of aggregating in a multi-TID A-MPDU."	2017/1/9 9:42

7763 Mark Hamilton	225	1 9.4.2.218.2	78	31	T	Y	78.31 9.4.2.218.2	Can refers to normative permission, not appropriate here	Change "can" to "is capable of"	2017/1/9 9:42
7764 Mark Hamilton	225	1 9.4.2.218.2	78	13	T	Y	78.13 9.4.2.218.2	Clarify what "additional time needed to process" means.	Change the Definition column entry to: "Indicates the amount of time needed from the end of the User Info field with an AID indicating this STA until the end of the PPDU that contains a Trigger frame, for the STA to be able to process a received Trigger frame."	2017/1/9 9:42
7765 Mark Hamilton	225	1 9.4.2.218.2	79	16	E	N	79.16 9.4.2.218.2	Unnecessary confusion caused by "can"	Change "can solicit" to "solicits"	2017/1/9 9:42
7766 Mark Hamilton	225	1 9.4.2.218.2	80	28	T	Y	80.28 9.4.2.218.2	Can refers to normative permission, not appropriate here	Change "can Receive" to "is capable of receiving". Same thing in next sentence, and two similar sentences in the next paragraph.	2017/1/9 9:42
7767 Mark Hamilton	225	1 9.4.2.218.2	80	36	T	Y	80.36 9.4.2.218.2	"is" for normative requirement	Change "is 7" to "is set to 7"	2017/1/9 9:42
7768 Mark Hamilton	225	1 9.4.2.218.3	84	50	T	Y	84.50 9.4.2.218.3	Can refers to normative permission, not appropriate here	Change "can receive" to "is capable of receiving", in both the Definition and Encoding cells.	2017/1/9 9:42
7769 Mark Hamilton	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3	Can refers to normative permission, not appropriate here	Chane "can be sent to the STA" to "the STA is capable of receiving"	2017/1/9 9:42
7770 Mark Hamilton	225	1 9.4.2.218.3	84	58	T	Y	84.58 9.4.2.218.3	Can refers to normative permission, not appropriate here	Change "can receive" to "is capable of receiving"	2017/1/9 9:42
7771 Mark Hamilton	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3	Can refers to normative permission, not appropriate here	Change "can receive" to "is capable of receiving", in both the Definition and Encoding cells.	2017/1/9 9:42
7772 Mark Hamilton	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	Can refers to normative permission, not appropriate here	Chane "can be sent to the STA" to "the STA is capable of receiving"	2017/1/9 9:42
7773 Mark Hamilton	225	1 9.4.2.218.3	85	15	T	Y	85.15 9.4.2.218.3	Can refers to normative permission, not appropriate here	Change "can receive" to "is capable of receiving"	2017/1/9 9:42
7774 Mark Hamilton	225	1 9.4.2.219	91	64	T	Y	91.64 9.4.2.219	Use 'shall' for normative requirements.	Change "must" to "shall"	2017/1/9 9:42
7775 Mark Hamilton	225	1 9.4.2.219	92	2	T	Y	92.02 9.4.2.219	Redundant text, with behavioral statements, that should not be in clause 9.	Delete this description of behavior (that is already in 11.49.1), and replace with "See 11.49.1."	2017/1/9 9:42
7776 Mark Hamilton	225	1 9.4.2.222	95	43	T	Y	95.43 9.4.2.222	This is a normative permission. In clause 9, state it declaratively.	Change "can be included" to "is optionally included"	2017/1/9 9:42
7777 Mark Hamilton	225	1 9.4.2.223	96	22	T	Y	96.22 9.4.2.223	What does "the HE STA support it can transmit frames" mean?	Clarify. Same thing in 9.4.2.224 and 9.4.2.225.	2017/1/9 9:42
7778 Mark Hamilton	225	1 9.7.3	110	58	E	Y	110.58 9.7.3	Reword to clarify declarative intent of this NOTE.	Reword NOTE 2 to: "It is optional for an AP including a Trigger frame and Block frame to include QoS Data in that A-MPDU." Same thing at P111L32.	2017/1/9 9:42
7779 Mark Hamilton	225	1 10.3.1	113	51	T	Y	113.51 10.3.1	Use proper normative verbs	Change "This mechanism requires STAs to" to When this mechanism is enabled, STAs shall"	2017/1/9 9:42
7780 Mark Hamilton	225	1 10.3.2.10.1	119	7	E	Y	119.07 10.3.2.10.1	Text does not match baseline	Change "Single MPDU" to "VHT single MPDU". (Note capitalization.) (Or, "S-MPDU", per instructions in 11ah.)	2017/1/9 9:42
7781 Mark Hamilton	225	1 10.3.5	122	13	T	Y	122.13 10.3.5	Is this "non-requirement" stated somewhere?	Add to the NOTE a reference to where this is stated normatively.	2017/1/9 9:42
7782 Mark Hamilton	225	1 10.5	122	40	T	Y	122.40 10.5	Use proper normative verbs	Change "is" to "shall be"	2017/1/9 9:42
7783 Mark Hamilton	225	1 10.7	122	52	T	Y	122.52 10.7	Rate selection rules are needed for new HE-MCS options.	New rules, or clarity about applicability of existing rules, is needed for all transmissions that can use the new HE-MCS rates, throughout subclause 10.7.	2017/1/9 9:42
7784 Mark Hamilton	225	1 10.7.6.5.2	123	38	T	Y	123.38 10.7.6.5.2	Why is this only for APs?	Change "An AP that transmits" to "A STA that transmits"	2017/1/9 9:42
7785 Mark Hamilton	225	1 10.7.6.5.2	123	33	T	Y	123.33 10.7.6.5.2	How does this relate to the rest of the (baseline) text? If Multi-STA is unique (and it might be, because there isn't a single "previous frame"), then clarify in the existing text that it applies to BlockAck excpet Multi-STA BlockAck.	Clarify throughout 10.7.6.5 baseline text, where the rules are different for HE, or for new frame types introduced in 11ax (like Multi-STA BlockAck). Especially consider 10.7.6.5.1's limitations on the scope of the new 10.7.6.5.2 text in 11ax draft.	2017/1/9 9:42
7786 Mark Hamilton	225	1 10.24.10.3	134	40	T	Y	134.40 10.24.10.3	There is no "User Identifier" subfield in an MU-BAR frame.	Change "User Identifier" to "AID12". Change "set to the AID" to "set to the least significant 12 bits of the AID".	2017/1/9 9:42
7787 Mark Hamilton	225	1 10.24.10.3	135	53	T	Y	135.53 10.24.10.3	AID12 fields hold only a truncation of AIDs	Change "AID12 fields set to AIDs" to "AID12 fields set to the 12 least significant bits of AIDs"	2017/1/9 9:42

7788	Mark Hamilton	225	1 11.3.5.3	143	49	T	Y	143.49 11.3.5.3	Need to add basic HE-MCS to the association rules in 11.3.5.3	Add a bullet after bullet (h), "The SME shall refuse an association request from an HE STA that does not support all of the <HE-MCS, NSS> tuples indicated by the Basic HE-MCS And NSS Set field of the HE Operation parameter in the MLME-START.request primitive." Same thing in 11.3.5.5. Similarly in 11.4.2.	2017/1/9 9:42
7789	Mark Hamilton	225	1 11.49.1	144	39	T	Y	144.39 11.49.1	To make the AID12 field (in Trigger frames, etc) unique, and the values 0 and 0xFFF in the least significant 12 bits of AID have special meaning, there are more AID assignment rules.	Change title of subclause to "AID assignment rules". Add paragraph that states that the assigned AID may not have 0 or 0xFFF in the least significant 12 bits. Add a paragraph that says the AID must be unique in the least significant 11 bits (to make Tigger and HE ND Announcement work). Or, just say AIDs must be allocated between 1 and 2045 (2046 is also a special value for an unallocated/unused RU). This needs to have an exception for MultiBSSID also, though.	2017/1/9 9:42
7790	Mark Hamilton	225	1 17.3.9.10	145	63	T	Y	145.63 17.3.9.10	Confusing sentence. Doesn't seem necessary.	Delete the sentence "This requirement does not include round trip delay."	2017/1/9 9:42
7791	Mark Hamilton	225	1 17.3.9.10	145	64	T	Y	145.64 17.3.9.10	This sentence should be a NOTE, as it is not adding normative requirements	Change the sentence starting "This requirement is the same ..." to be a NOTE.	2017/1/9 9:42
7792	Mark Hamilton	225	1 27.1	149	10	T	Y	149.10 27.1	What does "are banned" mean?	Replace with "An HE STA shall not support HCCA or TSPECs."	2017/1/9 9:42
7793	Mark Hamilton	225	1 27.1	149	10	T	Y	149.10 27.1	Backward compatibility problems around TSPEC. Since an HE STA is also a VHT STA (per 4.3.14a), to disallow any use of TSPEC by an HE STA means that any peer pre-HE (VHT or older STA) that sends a TSPEC in to the HE STA will get indeterminate and incompatible results.	Clarify the expected behavior for an HE STA when in peer communication with a pre-HE STA, when TSPEC use is attempted.	2017/1/9 9:42
7794	Mark Hamilton	225	1 27.2.2	150	27	T	Y	150.27 27.2.2	Use proper normative verbs	Change this paragraph to, "An HE STA maintaining two NAVs shall fulfil the requirements in 10.3.2.1 (CS mechanism). For such a STA, when both the NAV timers are 0, the virtual CS indication shall be idle; if one or both of the NAV timers is nonzero, the virtual CS indication shall be busy."	2017/1/9 9:42
7795	Mark Hamilton	225	1 27.2.3	152	11	T	Y	152.11 27.2.3	Trigger frame User Info fields only have AID12, not full AIDs.	Change "with the AID of the STA" to "with AID12 matching the least significant 12 bits of the AID of the STA"	2017/1/9 9:42
7796	Mark Hamilton	225	1 27.3.1	152	41	T	Y	152.41 27.3.1	Use proper normative verbs	Change these sentences to, "An HE STA shall support the … In addition, an HE STA may support the …"	2017/1/9 9:42
7797	Mark Hamilton	225	1 27.3.1	152	45	T	Y	152.45 27.3.1	U	Change "can" to "may". Same thing at P157L21, and P158L1.	2017/1/9 9:42
7798	Mark Hamilton	225	1 27.3.2	153	3	T	Y	153.03 27.3.2	Use proper normative verbs	Change "The length of each framgement is not required to be equal" to "The length of each fragment may differ"	2017/1/9 9:42
7799	Mark Hamilton	225	1 27.4.1	157	33	T	Y	157.33 27.4.1	This sentence could use some re-wording clarification. However, the concept is already stated in 10.7.6.5.2, anyway - except that sentence says "An AP that ..." which seems overly limiting.	At P123L38 change "An AP that transmits" to "A STA that transmits"	2017/1/9 9:42
7800	Mark Hamilton	225	1 27.4.1	157	36	T	Y	157.36 27.4.1	This sentence implies that any STA that gets an HE trigger-based PPDU can always send a Multi-STA Block Ack. But, the sentence at P157L49 implies that only some HE STAs will support Multi-STA BlockAck. These are inconsistent. Is there anything preventing an AP from sening a Multi-STA BlockAck to a STA that doesn't support it? Also, PICS is blank for this, so unclear if support is Mandatory or not.	If Multi-STA support is optional, where is it indicated (only "All ACK Support" and "Group Addressed Multi-STA Block-Ack In DL MU Support" is currently in the HE Capabilities)? Text needs to be added to clarify that it is optional. The PICS entry is blank, and should indicate Optional.	2017/1/9 9:42

7801	Mark Hamilton	225	1 27.4.3	159	29	T	Y	159.29 27.4.3	Clarify that these bitmap lengths are in bits.	Add "in bits" after "The Block Ack Subfield length" at the start of this sentence.		2017/1/9 9:42
7802	Mark Hamilton	225	1 27.4.3	159	53	T	Y	159.53 27.4.3	Why is there a special case for support of a 32-bit BlockAck Bitmap in a Multi-STA BlockAck?	Delete this paragraph. Also delete this item from the HE Capabilities element in subclause 9.4.218.2.		2017/1/9 9:42
7803	Mark Hamilton	225	1 27.4.3	160	3	T	Y	160.03 27.4.3	Use proper normative verbs	Change "can be used by" to "is supported by"		2017/1/9 9:42
7804	Mark Hamilton	225	1 27.4.3	160	21	T	Y	160.21 27.4.3	Unclear reference, using "it", and vague requirements using "are" (and "may be"?).	Reword this paragraph, to be clear about actors, and use 'shall' as appropriate.		2017/1/9 9:42
7805	Mark Hamilton	225	1 27.4.4.1	160	31	T	Y	160.31 27.4.4.1	Use proper normative verbs	Change "can" to "shall"		2017/1/9 9:42
7806	Mark Hamilton	225	1 27.4.4.4	161	42	E	Y	161.42 27.4.4.4	In this context, the phrase "single MPDU" is just a general use of the English word "single", not a technical term	Change "Single MPDU" to "single MPDU"		2017/1/9 9:42
7807	Mark Hamilton	225	1 27.5.1.3	163	19	T	Y	163.19 27.5.1.3	Use proper normative verbs	Change "delivers" to "shall deliver"		2017/1/9 9:42
7808	Mark Hamilton	225	1 27.5.1.3	163	21	T	Y	163.21 27.5.1.3	Use proper normative verbs	Change "can" to "may". Same thing at P163L35, P164L47, P167L2, P171L12, P171L52, P174L36.		2017/1/9 9:42
7809	Mark Hamilton	225	1 27.5.2.2.1	164	46	T	Y	164.46 27.5.2.2.1	AID12 only has the least significant 12 bits of the AID	Change "AID of the STA" to "12 least significant bits of the AID of the STA"		2017/1/9 9:42
7810	Mark Hamilton	225	1 27.5.2.21	165	24	E	Y	165.24 27.5.2.21	Wording fix	Change "and" to "to" to match the "from".		2017/1/9 9:42
7811	Mark Hamilton	225	1 27.5.2.2.1	165	26	E	Y	165.26 27.5.2.2.1	The subfield name is missing "Duration". Called "field" on line 27.	Add "Duration" at the end of the subfield name on lines 26 and 27. Change "field" to "subfield" on line 27.		2017/1/9 9:42
7812	Mark Hamilton	225	1 27.5.2.2.1	165	26	T	Y	165.26 27.5.2.2.1	This sentence is inconsistent with the next paragraph, and the previous sentence. The only rule we need, is for the AP to protect each non-AP STA's requested time. No need for a maximumizing function.	Delete this sentence.		2017/1/9 9:42
7813	Mark Hamilton	225	1 27.5.2.2.1	165	35	E	Y	165.35 27.5.2.2.1	NOTE 1 is not relevant here. Plus, this concept is clearly stated in 9.3.1.23, and duplication leads to trouble.	Delete NOTE 1		2017/1/9 9:42
7814	Mark Hamilton	225	1 27.5.2.3	167	57	T	Y	167.57 27.5.2.3	AID12 is equal to the least significant 12 bits of the AID	Change "AID12 subfield is equal to the AID" to "AID12 subfield is equal to the 12 least significant bits of the AID"		2017/1/9 9:42
7815	Mark Hamilton	225	1 27.5.2.3	169	30	T	Y	169.30 27.5.2.3	Use proper normative verbs	Change "is not required" to "is optional".		2017/1/9 9:42
7816	Mark Hamilton	225	1 27.5.2.3	169	57	T	Y	169.57 27.5.2.3	Clarify 'required'.	Change "required type" to "type requested by the Trigger frame". Same thing at P170L2.		2017/1/9 9:42
7817	Mark Hamilton	225	1 27.5.2.5	171	56	T	Y	171.56 27.5.2.5	AID12 is equal to the least significant 12 bits of the AID	Change "the STA's AID" to "the 12 least significant bits of the STA's AID". Same thing at P181L43, P184L1. Similarly "recipient's AID" to "12 least significant bits of the reipcient's AID" at P181L44.		2017/1/9 9:42
7818	Mark Hamilton	225	1 27.6.2	176	27	T	Y	176.27 27.6.2	AID in HE NDP Announcement is only the lower 11 bits of the AID	Change "the STA whose AID is" to "the STA whose least significant 11 bits of AID are"		2017/1/9 9:42
7819	Mark Hamilton	225	1 27.6.2	177	55	T	Y	177.55 27.6.2	AID in HE NDP Announcement is only the lower 11 bits of the AID	Change "the HE beamformee's AID" to "the least significant 11 bits of the HE beamformee's AID". Same thing at P178L21, P178L25.		2017/1/9 9:42
7820	Mark Hamilton	225	1 27.7.2	181	2	T	Y	181.02 27.7.2	Use proper normative verbs	Change "shall not be required to" to "may optionally"		2017/1/9 9:42
7821	Mark Hamilton	225	1 27.7.2	181	28	T	Y	181.28 27.7.2	Use proper normative verbs	Change "is not required to" to might optionally". Same thing at P184L25.		2017/1/9 9:42
7822	Mark Hamilton	225	1 27.7.3.3	186	8	T	Y	186.08 27.7.3.3	AID12 is equal to the least significant 12 bits of the AID	Change "AID" to "12 least significant bits of the AID". Same thing at P186L22, P189L51, P189L55.		2017/1/9 9:42
7823	Mark Hamilton	225	1 27.9.2.1	190	24	T	Y	190.24 27.9.2.1	Inconsistency in basic NAV operation. At P150L36, P151L1 and P151L28, a frame (matching the other criteria) that is "cannot be identified as intra-BSS or inter-BSS" will update the basic NAV. But at P190L24, does not include the "cannot be determined" case.	Add "or cannot be identified as intra-BSS or inter-BSS" to the first bullet.		2017/1/9 9:42

7824	Mark Hamilton	225	1 28.1.1	211	64	T	Y	211.64 28.1.1	It says, "... except if the non-AP STA is 20 MHz-only capable", which is not a well-defined term. Per the PICS (and the top of page 210), all HE non-AP STAs are 20 MHz-only "capable" (it is 'M'). I think in this clause it means doing 20 MHz-only operation. (Or, is that called "20 MHz operation", or a "20 MHz operating STA" - see 28.3.3.5?)	Change "20 MHz-only capable" to "a 20 MHz-only STA", at P212L1, and throughout page 212. Clarify (due to the statement at P210L1 that all HE non-AP STAs are inclusive of 20 MHz-only STAs), that the bullets at P212L1, P212L13 and P212L25 when they say "are not applicable/supported" don't mean that all HE non-AP STAs don't apply/suport these.		2017/1/9 9:42
7825	Mark Hamilton	225	1 28.2.2	223	40	E	Y	223.40 28.2.2	Improper use of 'might'. By convention, the statements in the TXVECTOR/RXVECTOR tables are declarative, and reference normative statements elsewhere. Modify to not use 'might', and keep the reference.	Change "might be" to "are"		2017/1/9 9:42
7826	Mark Hamilton	225	1 28.3.3.1	228	16	E	Y	228.16 28.3.3.1	Incorrect cross-reference	Reference should be to Figure 28-1, not Table 28-15.		2017/1/9 9:42
7827	Mark Hamilton	225	1 28.3.3.6	238	3	T	Y	238.03 28.3.3.6	The term "20-MHz only" (and variants) is very confusing. The lack of clear terminology and normative statements in this subclause (and 28.3.3.5) isn't helping.	Rewrite this subclause, using clearly normative words ('shall', etc.) and clarify if this is a capability, a mode of operation, or a limitation of the implementation, and if it is static for the instantiation of the STA. (I think it is static)		2017/1/9 9:42
7828	Mark Hamilton	225	1 28.3.10.7.1	272	57	E	Y	272.57 28.3.10.7.1	Don't make this look like a specification requirement, it is a necessity.	Change "required" to "necessary"		2017/1/9 9:42
7829	Mark Hamilton	225	1 28.3.10.7.2	273	11	T	Y	273.11 28.3.10.7.2	Why list the bits explicitly, and also the "Number of bits" column?	Delete the Number of bits column from Table 28-16. Same thing for Tables 28-17, 28-18, 28-22, and 28-23.		2017/1/9 9:42
7830	Mark Hamilton	225	1 28.3.14.1	340	51	E	Y	340.51 28.3.14.1	Don't make this look like a specification requirement, it is a necessity.	Change "it requires" to "it is necessary to have", and change "by" to "completed by" on the next line.		2017/1/9 9:42
7831	Mark Hamilton	225	1 28.3.14.1	340	55	E	Y	340.55 28.3.14.1	Don't make this look like a specification requirement, it is a necessity.	Change "required" to "necessary"		2017/1/9 9:42
7832	Mark Hamilton	225	1 28.3.14.3	342	59	T	Y	342.59 28.3.14.3	Confusing sentence. Doesn't seem necessary.	Delete the sentence "This requirement does not include round trip delay."		2017/1/9 9:42
7833	Mark Hamilton	225	1 28.3.17.3	346	63	T	Y	346.63 28.3.17.3	Use proper normative verbs	Change sentence to, "If the regulatory domain permits a 160 MHz band plan, then the STA shall be measured for adjacent channel rejection for 160 MHz operation, otherwise such measurement is optional." Similarly for nonadjacent channel, at P347L47.		2017/1/9 9:42
7834	Mark Hamilton	225	1 28.3.17.6.2	348	3	T	Y	348.03 28.3.17.6.2	Sentence is out of place ("also", in addition to what?), and redundant with the following text.	Delete the first setence of 28.3.17.6.2.		2017/1/9 9:42
7835	Mark Hamilton	225	1 28.3.18.1	350	17	T	Y	350.17 28.3.18.1	Is this "non-requirement" stated somewhere?	Add to the NOTE a reference to where this is stated normatively.		2017/1/9 9:42
7836	Mark Hamilton	225	1 28.3.18.2	355	1	T	Y	355.01 28.3.18.2	Use proper normative verbs	Change "requirements apply" to "requirements shall apply". Same thing at P355L44.		2017/1/9 9:42
7837	Mark Hamilton	225	1 B.4.3	407	60	E	Y	407.60 B.4.3	What is "CFIndSTA"? Probably meant "CFIndepSTA".	Change all "CFIndSTA" to "CFIndepSTA" in the PICS		2017/1/9 9:42
7838	Mark RISON	225	1 9.4.2.1	67	19	E	Y	67.19 9.4.2.1	"9.4.2.214" is a stale xref	Change to "9.4.2.219"		2017/1/9 9:42
7839	Mark RISON	225	1			G	Y		Many cross-references are not logically cross-references, and many of those are stale	Make all subclause/figure/table cross-references actual logical cross-references (i.e. clickable)		2017/1/9 9:42
7840	Mark RISON	225	1 27.6.2	176	14	T	Y	176.14 27.6.2	There should be a mechanism to allow an HE BFer to poll for missed segments. It is not clear whether a BRP frame can be used in the SU case, and the BRP variant Trigger frame cannot be used in the MU case as it is preceded by an NDP that will take precedence	Allow Beamforming Report Poll frames to be used to solicit SU retransmission of missed segments (cf. 10.34.5.3). Define a new Trigger frame variant to solicit MU retransmission of missed segments (without a preceding NDP+NDPA). Delete the Feedback Segment Retransmission Bitmap from the Trigger Dependent User Info field of the Beamforming Report Poll variant Trigger frame (leaving it blank); this is the field needed for the new Trigger frame variant to solicit retransmission of missing segments		2017/1/9 9:42

7841	Mark RISON	225	1 27.2.1	149	51	T	Y	149.51 27.2.1	A frame without BSS_COLOR that is part of a Multiple BSSID Set but is not the BSSID of the AP to which the STA is associated will be identified as both infra-BSS (line 27) and inter-BSS (line 51). This does not appear to be the intention (line 58), and is not resolved by giving priority to MAC address decisions (page 150 line 15).	Either: i) Expand the precedence rule on (page 150 line 15) so that the intra-BSS designation takes priority over the inter-BSS designation, -or- ii) Gate the inter-BSS BSSID check (page 149 line 51) on the AP not being a member of a Multiple BSSID Set.		2017/1/9 9:42
7842	Mark RISON	225	1 27.2.2	150	57	E	Y	150.57 27.2.2	"The STA is not solicited an immediate response" is non-grammatical and does not make sense.	Change the bullet to "An immediate response is not solicited from the STA by the PPDU carrying the frame".		2017/1/9 9:42
7843	Mark RISON	225	1 27.2.2	151	5	E	Y	151.05 27.2.2	"The STA is not solicited an immediate response" is non-grammatical and does not make sense.	Change the bullet to "An immediate response is not solicited from the STA by the PPDU carrying the frame".		2017/1/9 9:42
7844	Mark RISON	225	1 27.2.2	151	50	T	Y	151.50 27.2.2	Reference is made to additional conditions that may set or reset the NAV in 10.4.3.3, but it is not explicit whether this applies to the intra-BSS NAV, the basic NAV, or both.	Specify that: i) The NAV updated from the CDPMaxDuration or CFPDurRemaining value is selected based on the intra-BSS or inter-BSS designation of the received Beacon or Probe Response frame. Ii) The NAV is reset in response to CF-End or CF-End +CF-Ack frames as specified in 10.22.2.9.		2017/1/9 9:42
7845	Mark RISON	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	The behaviour if the STA is not associated with the AP is "TBD".	Delete the final sentence of the first bullet; if the STA is not associated with the AP then it should not send an HE trigger-based PPDU and hence is handled by the final bullet (line 64).		2017/1/9 9:42
7846	Mark RISON	225	1 26.1.1	209	50	E	Y	209.50 26.1.1	LTF should be HE-LTF	Change "LTF" to "HE-LTF"		2017/1/9 9:42
7847	Mark RISON	225	1 26.1.1	210	11	E	Y	210.11 26.1.1	Binary Convolutional Coding should be Binary Convolutional Code	Change "coding" to "code"		2017/1/9 9:42
7848	Mark RISON	225	1 26.1.1	210	27	E	Y	210.27 26.1.1	LDPC coding should be LDPC code	Change "coding" to "code"		2017/1/9 9:42
7849	Mark RISON	225	1 26.1.1	210	8	G	Y	210.08 26.1.1	Reception of HE extended range SU PPDU should be optional	Move it to the optional list below		2017/1/9 9:42
7850	Mark RISON	225	1 28.3.3.1	228	52	G	Y	228.52 28.3.3.1	Allocating different transmit powers to different subchannels may violate transmit spectrum flatness requirement	Add a NOTE to that effect		2017/1/9 9:42
7851	Mark RISON	225	1 28.3.3.2	230	6	G	Y	230.06 28.3.3.2	For Table 28-3 to 28-5, a note should be added explaining that the most negative indices refer to the lowest frequency.	As it says in the comment		2017/1/9 9:42
7852	Mark RISON	225	1 28.3.3.4	236	34	T	Y	236.34 28.3.3.4	What about 2x HE-LTF case, is it always present?	Clarify		2017/1/9 9:42
7853	Mark RISON	225	1 28.3.3.4	236	34	T	Y	236.34 28.3.3.4	It is desirable to always transmit pilot subcarrier even if the RU the pilot subcarriers belonging to is not allocated.	Add "Pilot subcarriers shall be transmitted even if the RU a pilot subcarrier belongs to is not allocated"		2017/1/9 9:42
7854	Mark RISON	225	1 28.3.3.8.3	239	17	E	Y	239.17 28.3.3.8.3	What does "information of each RU" refer to? And what does "RU" refer to?	Clarify. Also add RU to 3.4		2017/1/9 9:42
7855	Mark RISON	225	1 28.3.5	247	9	E	Y	247.09 28.3.5	In Figure 28-15, each user's processing, CSD is included; is CSD per user procesing or per PPDU? If it is per PPDU, during per user processing, the frequency/spatial allocation is not done and how the CSD can be carried out without frequency/spatial information?	Move CSD to outside per-user		2017/1/9 9:42
7856	Mark RISON	225	1 28.3.6.11.1	255	31	E	Y	255.31 28.3.6.11.1	It would be easier for description purpose to move CSD operation outside per user processing; as CSD operation needs global information, such as spatial and frequency allocation.	As it says in the comment		2017/1/9 9:42
7857	Mark RISON	225	1 28.3.10.8.3	288	56	E	Y	288.56 28.3.10.8.3	The section title Time domain encoding is confusing	Use a better title		2017/1/9 9:42
7858	Mark RISON	225	1 28.3.10.8.2	286	34	E	Y	286.34 28.3.10.8.2	Need a formal description of how the bits from common block and multiple user blocks are cascaded and mapped before modulation and loaded to data sub-carriers	As it says in the comment		2017/1/9 9:42
7859	Mark RISON	225	1 28.3.10.8.5	294	22	E	Y	294.22 28.3.10.8.5	Is this illustration for one content channel?	Add "for one content channel" to the caption for Figure 28-25		2017/1/9 9:42
7860	Mark RISON	225	1 28.3.10.10	301	18	G	Y	301.18 28.3.10.10	Does the frequency portion corresponding to RUs not allocated to any user carry HE-LTF symbol?	Clarify		2017/1/9 9:42

7861	Mark RISON	225	1 27.10.4	193	40	E	Y	193.40 27.10.4	Terminology differs from description of HE Capabilities element given in 9.4.2.218.2	Change "Ack Enabled Multi-TID A-MPDU Support" to "Ack-Enabled Multi-TID Aggregation Support"	2017/1/9 9:42
7862	Mark RISON	225	1 27.10.4	193	44	E	Y	193.44 27.10.4	Terminology differs from description of HE Capabilities element given in 9.4.2.218.2	Change "Ack Enabled Multi-TID A-MPDU Support" to "Ack-Enabled Multi-TID Aggregation Support"	2017/1/9 9:42
7863	Mark RISON	225	1 27.10.4	193	49	T	Y	193.49 27.10.4	Setting EOF to 1 in this manner is inconsistent with the statement "set to 0 otherwise" in first row of Table 9-422	Remove from 27.10.4 all mentions of EOF	2017/1/9 9:42
7864	Mark RISON	225	1 27.10.4	193	49	T	Y	193.49 27.10.4	Setting EOF to 1 in this manner conveys no additional information and is unnecessary	Remove from 27.10.4 all mentions of EOF	2017/1/9 9:42
7865	Mark RISON	225	1 9.2.4.6.4.5	25	54	T	Y	25.54 9.2.4.6.4.5	"Each bit of the bitmap is set to 1 to indicate that the buffer status of the AC, which ACI is identified by the location of the bit in the ACI Bitmap subfield, is reported and set to 0 otherwise." is not true. For example, 26.27 indicates that the status of 8 TIDs is being reported even if all bits in the bitmap are 0	After "is reported" add "in the ACI Bitmap subfield"	2017/1/9 9:42
7866	Mark RISON	225	1 9.2.4.5.6	21	19	T	Y	21.19 9.2.4.5.6	"If a QoS Data frame is fragmented" -- MPDUs cannot be fragmented. Also at 21.21, 27.7, 27.10	Change the cited text to "If an MSDU/A-MSDU/MMPDU is fragmented" in each case	2017/1/9 9:42
7867	Mark RISON	225	1 9.2.4.6.4.5	27	3	T	Y	27.03 9.2.4.6.4.5	It is not clear what "the present (A-)MPDU" is	Change the cited text to "the (A-)MPDU containing the BSR"	2017/1/9 9:42
7868	Mark RISON	225	1 9.2.4.5.6	21	13	T	Y	21.13 9.2.4.5.6	It is not clear what "the present (A-)MPDU" is	Change the cited text to "the (A-)MPDU containing the Queue Size subfield"	2017/1/9 9:42
7869	Mark RISON	225	1 9.2.4.5.6	21	3	T	Y	21.03 9.2.4.5.6	It is not clear that the Queue Size is a form of BSR (the wording in 27.5.2.5 indicates this is to be seen as an "implicit BSR")	At the end of the sentence inserted at the cited location, add "; this is an implicit BSR"	2017/1/9 9:42
7870	Mark RISON	225	1 9.4.2.219	91	62	T	Y	91.62 9.4.2.219	"which enables the use of RTS/CTS except for values 0 and 1023" -- 0 enables RTS/CTS too	Delete "0 and" in the cited text; also delete the following " The value 0 indicates that RTS/CTS must be used for all frame exchanges." since this follows from the specification of the use of this field	2017/1/9 9:42
7871	Mark RISON	225	1 9.4.2.219	91	63	E	Y	91.63 9.4.2.219	"must" is not a standard modal verb	Change "must be" to "is" at the cited location	2017/1/9 9:42
7872	Mark RISON	225	1 10.3.5	121	61	T	Y	121.61 10.3.5	There are several issues with duration-based RTS threshold: 10.3.1 suggests this applies to the AP too 10.3.2.4a doesn't have any actual normative behavioural specification (and misses "HE" before "duration-based") 10.3.5 has a NOTE that seems normative 10.3.1 says that this is driven by dot11DurationRTSThreshold, but nothing ties this to the value in the HE Duration Based RTS Threshold field in the HE Operation element C.3 talks of "receiving duration-based RTS threshold notification frame" but there is no such frame C.3 says "TxOP" C.3 says "should be" but 10.3.5 says "should" C.3 refers to the undefined concept "transmission or TXOP" C.3 has broken grammar	Change 10.3.1 to say the mechanism only applies to non-AP STAs (APs continue to use dot11RTSThreshold) Delete 10.3.2.4a Promote the first NOTE in 10.3.5 to a non-NOTE Add wording in 10.3.1 to say that dot11DurationRTSThreshold is updated whenever an HE non-AP STA receives an HE Operation element from an AP to which it is associated Change C.3 422.31 to talk of receiving an HE Operation element from an AP to which an HE non-AP STA is associated Change "TxOP" to "TXOP" in C.3 Delete "Value zero means the RTS should be always used for TxOP transmission." in C.3 Delete "transmission or" at 422.35 Add "The" at the start of the sentence at 422.38, and a full stop at the end	2017/1/9 9:42
7873	Mark RISON	225	1 10.3.5	121	63	T	Y	121.63 10.3.5	dot11RTSThreshold should be used for EDCA as well as DCF, as for dot11DurationRTSThreshold	Add "or EDCA" after "DCF" at the cited location	2017/1/9 9:42
7874	Mark RISON	225	1			G	Y		New amendment style is a bad idea. It means you need to look in multiple places to find what the requirements really are	Use traditional style, i.e. incorporate 802.11ax into 802.11 baseline text, by merging Clause 27 into Clauses 10 and 11	2017/1/9 9:42
7875	Mark RISON	225	1 9.2.4.6.4.4	25	8	E	Y	25.08 9.2.4.6.4.4	"9.31.4 (Link adaptation using the HE variant HT Control field))" is a broken reference	Refer to 27.13 instead	2017/1/9 9:42
7876	Mark RISON	225	1 9.4.2.200	73	14	E	Y	73.14 9.4.2.200	"25.14 (Link adaptation using the HE variant HT Control field)" is a broken reference	Refer to 27.13 instead	2017/1/9 9:42

7877	Mark RISON	225	1 9.4.2.200	73	39	E	Y	73.39 9.4.2.200	"25.14 (Link adaptation using the HE variant HT Control field)" is a broken reference	Refer to 27.13 instead	2017/1/9 9:42
7878	Mark RISON	225	1 10.9	126	26	E	Y	126.26 10.9	"10.31.4 (Link adaptation using the HE variant HT Control field))" is a broken reference	Refer to 27.13 instead	2017/1/9 9:42
7879	Mark RISON	225	1 9.4.2.218.2	76	42	E	Y	76.42 9.4.2.218.2	The figure says "HE Link Adaptation", the text at 78.26 says "HE Link Adaptation Capable"	Change both locations to "HE Link Adaptation Supported"	2017/1/9 9:42
7880	Mark RISON	225	1 B.4	411	29	T	Y	411.29 B.4	BQR and RDP A-Controls are missing	Add rows HEWM4.6/7 for them	2017/1/9 9:42
7881	Mark RISON	225	1 10.22.2.8	133	17	T	Y	133.17 10.22.2.8	Link adaptation is also described in 27.13	Add "and 27.13" after "10.31"	2017/1/9 9:42
7882	Mark RISON	225	1 9.4.2.218.2	78	31	T	Y	78.31 9.4.2.218.2	Solicited HE MFB/MRQ is not described	Delete "Set to 3 (Both) if the STA can provide HE MFB in response to HE MRQ and if the STA provides unsolicited HE MFB."	2017/1/9 9:42
7883	Mark RISON	225	1 9.2.4.6.4.1	22	48	E	Y	22.48 9.2.4.6.4.1	The field is "Aggregated Control" not "Aggregate Control"	Change "Aggregate" to "Aggregated" at the cited location	2017/1/9 9:42
7884	Mark RISON	225	1			E	Y		The things in an Aggregated Control subfield are Control subfields, not A-Control subfields	Delete "A-" in "UL MU Response Scheduling A-Control subfield", "BQR A-Control subfield", "BSR A-Control subfield" throughout Delete "A-" and add "sub" before "field" in "BSR A-Control field", "OMI A-Control field", "BQR A-Control field", "UL MU Response Scheduling A-Control field", "RDP A-Control field" throughout	2017/1/9 9:42
7885	Mark RISON	225	1 10.9	127	52	T	Y	127.52 10.9	An HE STA that receives an A-Control field shall ignore the remainder of the A-Control field that follows a Control ID subfield whose value is not recognized or is not supported by the STA." -- this is a interop/forward-compatibility disaster waiting to happen	Change to "An HE STA that receives an A-Control field shall ignore a Control field with a Control ID subfield whose value is not recognized or is not supported by the STA."	2017/1/9 9:42
7886	Mark RISON	225	1 10.9	127	44	T	Y	127.44 10.9	"If an A-Control field is present in a frame then it shall contain at least one Control subfield, and the Control subfield shall be present in the A-Control field only if it is supported by the receiving STA" -- this does not cover A-Controls in multicast frames	Add "(s)" after "STA"	2017/1/9 9:42
7887	Mark RISON	225	1 9.2.4.6.4.6	27	14	T	Y	27.14 9.2.4.6.4.6	There is no behavioural MAC specification of UL power headroom Control subfields	Move the text at the end of 28.3.14.2 to a new subclause in 27	2017/1/9 9:42
7888	Mark RISON	225	1 9.2.4.6.4.4	25	5	T	Y	25.05 9.2.4.6.4.4	There is no behavioural MAC specification of HE link adaptation Control subfields	Change 27.13 to refer to the HE link adaptation Control subfield	2017/1/9 9:42
7889	Mark RISON	225	1 27.8.1	188	24	E	Y	188.24 27.8.1	The Control subfield is called Operating Mode not Operating Mode Indication	Change "Operating mode indication (OMI)" to "Operating Mode (OM) indication" at the cited location and change OMI to OM throughout	2017/1/9 9:42
7890	Mark RISON	225	1 27.8.1	188	29	T	Y	188.29 27.8.1	Is dot11OMIOptionImplemented for tx, rx or both?	Change the para at the cited location to "If dot11OMIOptionImplemented is true, an HE STA may send a QoS Data or QoS Null frame that contains the OMI A-Control field to indicate a change in its receive and/or transmit operating parameters and shall support the reception of the OMI A-Control field. If dot11OMIOptionImplemented is false, an HE STA shall not send a QoS Data or QoS Null frame that contains the OMI A-Control field and shall ignore the OMI A-Control field if received. An HE AP shall set dot11OMIOptionImplemented to true." At 421.28 change "generating" to "transmitting and receiving" and change "the station" to "the non-AP STA"	2017/1/9 9:42
7891	Mark RISON	225	1 27.13	198	60	T	Y	198.60 27.13	This just has a statement on how to set the HE MCS subfield. Everything else is missing (setting of caps for solicited, unsolicited, expected behaviour at TX and at RX, etc.)	Add all the missing LA/MFB detail	2017/1/9 9:42

7892	Mark RISON	225	1			T	Y		"legacy preamble" is ambiguous because HE builds on top of more than one existing PHY	Change "legacy preamble" to "OFDM/ERP PPDU preamble" throughout	2017/1/9 9:42
7893	Mark RISON	225	1			T	Y		"right 106-tone RU" is not defined, nor is "left 106-tone RU"	Change "right 106-tone RU" to "highest-frequency 106-tone RU" throughout Change "left 106-tone RU" to "lowest-frequency 106-tone RU" throughout	2017/1/9 9:42
7894	Mark RISON	225	1 9.4.2.3	67	50	T	Y	67.50 9.4.2.3	Should make it clear that an AP must not include the 126 membership selector (VHT) if it wants to allow 20-MHz-only HE STAs	Add a "NOTE—To allow association of 20 MHz-only STAs, an HE AP omits the VHT PHY BSS membership selector and only includes the HT PHY and HE PHY membership selectors."	2017/1/9 9:42
7895	Mark RISON	225	1			E	Y		Multi-STA BlockAcks are very badly named, as they are also used in single-STA contexts	Change "Multi-STA BlockAck" to "Extended BlockAck" throughout	2017/1/9 9:42
7896	Mark RISON	225	1			G	Y		UL MU-MIMO should be optional	Make UL MU-MIMO optional rather than mandatory	2017/1/9 9:42
7897	Mark RISON	225	1 9.3.1.20	40	7	E	Y	40.07 9.3.1.20	"STA info" is wrong	Change to "STA Info"	2017/1/9 9:42
7898	Mark RISON	225	1 9.3.1.20	40	7	E	Y	40.07 9.3.1.20	"STA info element" is doubly wrong	Change to "STA Info field"	2017/1/9 9:42
7899	Mark RISON	225	1 9.3.1.20	41	28	E	Y	41.28 9.3.1.20	"ifs" is wrong	Change to "its"	2017/1/9 9:42
7900	Mark RISON	225	1 9.3.1.20	40	5	T	Y	40.05 9.3.1.20	"The frame format of the HE NDP Announcement frame with multiple STA info field is shown in Figure 9-51a" implies there's a different format without multiple STA Info fields	Delete "with multiple STA info field" (sic)	2017/1/9 9:42
7901	Mark RISON	225	1 9.3.1.20	41	28	T	Y	41.28 9.3.1.20	"The Disambiguation subfield is set to 1 to prevent a VHT STA from wrongly determining it's AID in the HE STA Info." is not clear (and grammatically wrong)	Change to "The Disambiguation subfield is set to 1. NOTE—A VHT STA interprets this as a STA Info field with an invalid AID."	2017/1/9 9:42
7902	Mark RISON	225	1 9.3.1.20	40	6	T	Y	40.06 9.3.1.20	The format/contents of the RA, TA and Sounding Dialog Token fields in an HE NDPA is not specified	Change the para at line 22 to: "The RA, TA and Sounding Dialog Token fields are set as in a VHT NDP Announcement frame, except that bit 1 of the Sounding Dialog Token field is set to 1."	2017/1/9 9:42
7903	Mark RISON	225	1 9.3.1.20	41	9	T	Y	41.09 9.3.1.20	Showing "Feedback Type + Ng + codebook size" is a recipe for interop problems	Show the information in three columns, one for b25 of the STA Info, one for b26 and one for b28	2017/1/9 9:42
7904	Mark RISON	225	1 9.3.1.20	40	53	T	Y	40.53 9.3.1.20	"indicates the first 26-tone RU" - how exactly? Does it start from 0 or from 1? What does 0/1 indicate? This is not clear	Append ", where tone 0 is the lowest-frequency tone,"	2017/1/9 9:42
7905	Mark RISON	225	1 9.2.5.2	31	52	T	Y	31.52 9.2.5.2	Need to account for HE beamforming too	After "VHT NDP," add "HE NDP,"	2017/1/9 9:42
7906	Mark RISON	225	1 10.22.2.7	132	4	T	Y	132.04 10.22.2.7	Need to account for HE beamforming too	Add a para "an HE NDP Announcement frame followed after SIFS by an HE NDP followed after SIFS by a PPDU containing one or more HE Compressed Beamforming frames, or" and a para " an HE NDP Announcement frame followed after SIFS by an HE NDP followed after SIFS by a BRP Trigger frame followed after SIFS by a PPDU containing one or more HE Compressed Beamforming frames, or"	2017/1/9 9:42
7907	Mark RISON	225	1 27.9.2.1	190	50	E	Y	190.50 27.9.2.1	"SR Backoff procedure for SR delayed case." is not a sentence	Delete the full stop and make into a subclause heading (27.9.2.2)	2017/1/9 9:42
7908	Mark RISON	225	1 27.9.2.1	190	52	T	Y	190.52 27.9.2.1	"carrying the SR delay entry" -- it is not clear what is meant by carrying an entry	Change to "not indicating SR_Disallowed"; also at lines 55 and 56	2017/1/9 9:42
7909	Mark RISON	225	1			E	Y		"SR Disallowed" is missing an underscore at 179.27 (also wrong case), 274.6, 276.40, 279.13, 279.35, 280.17, 280.41	Change to "SR_Disallowed" at the cited locations	2017/1/9 9:42
7910	Mark RISON	225	1 27.11.6	198	29	T	Y	198.29 27.11.6	"to SR_Delay entry" -- it is not clear what is meant by setting to an entry	Change to "to a value other than SR_Disallowed"	2017/1/9 9:42
7911	Mark RISON	225	1			T	Y		There is no definition of "SR_Delay" (it can be any number from 1 to 15)	At 190.37 change "indicates SR_Delay" to "does not indicate SR_Disallowed" and at 274.12 change "Set to SR_Delay" to "Set to a value other than SR_Disallowed"	2017/1/9 9:42
7912	Mark RISON	225	1 4.3.14a	9	65	E	Y	9.65 4.3.14a	"The Trigger frames schedule may be set between the non-AP STA and the AP using TWT operation." -- missing apostrophe	Add an apostrophe after "frames"	2017/1/9 9:42

7913 Mark RISON	225	1 9.3.1.23	42	59	T	Y	42.59 9.3.1.23	"If the Cascade Indication subfield is 1, then a subsequent Trigger frame as defined in 27.7 (TWT operation) and in 27.14.2 (Power save with UL OFDMA-based random access) follows the current Trigger frame. " -- these xrefs look wrong	Fix the xrefs to the two subclauses that discuss the subsequent Trigger frames	2017/1/9 9:42
7914 Mark RISON	225	1 9.3.3.6	53	17	T	Y	53.17 9.3.3.6	The deletion has lost the "otherwise not present" case	Add a para "Otherwise, the TWT element is not present." at the end of the cell	2017/1/9 9:42
7915 Mark RISON	225	1 9.3.3.6	53	19	T	Y	53.19 9.3.3.6	The change is not compatible with existing implementations that do not include a TWT element in the assoc rsp even though dot11TWT is true and there was a TWT element in the assoc req	Add "optionally" before "present". Ditto Table 9-32	2017/1/9 9:42
7916 Mark RISON	225	1 9.3.3.6	53	19	T	Y	53.19 9.3.3.6	The change is not compatible with existing implementations that do not include a TWT element in the assoc rsp even though dot11TWT is true and there was a TWT element in the assoc req	Do not make any change in this cell. Ditto Table 9-32	2017/1/9 9:42
7917 Mark RISON	225	1 9.3.3.11	55	18	E	Y	55.18 9.3.3.11	Broken grammar	Change "is true" to "are true"	2017/1/9 9:42
7918 Mark RISON	225	1 9.4.2.6	67	60	E	Y	67.60 9.4.2.6	The field names are not referred to correctly	Change to "DTIM Count field" and "DTIM Period field"	2017/1/9 9:42
7919 Mark RISON	225	1 9.4.2.6	68	1	T	Y	68.01 9.4.2.6	" the AP does not intend to transmit to the STA or to trigger the STA for an UL MU transmission" -- triggering is done by transmitting to the STA	Delete "or trigger the STA for an UL MU transmission"	2017/1/9 9:42
7920 Mark RISON	225	1 9.4.2.27	68	19	T	Y	68.19 9.4.2.27	The change is not compatible with existing implementations that do not set the bit even though dot11TWT is true	Add "and dot11HEOptionImplemented is true"	2017/1/9 9:42
7921 Mark RISON	225	1 9.4.2.27	68	23	T	Y	68.23 9.4.2.27	This bit serves no purpose as it is always the same as the one immediately above it	Delete this row, and delete "Requester" twice at line 19	2017/1/9 9:42
7922 Mark RISON	225	1 9.4.2.200	69	63	T	Y	69.63 9.4.2.200	"The Wake TBTT Negotiation subfield indicates" -- how exactly does it indicate this?	Add similar sentences to the "The Broadcast field is 1 to indicate that the TWT SP(s) defined by the TWT element are associated with broadcast TWT(s). The Broadcast field is 0, otherwise." above	2017/1/9 9:42
7923 Mark RISON	225	1 9.4.2.200	72	37	T	Y	72.37 9.4.2.200	" the TWT Flow Identifier subfield contains a value that indicates recommendations on the types of frames that are transmitted by scheduled STAs during the broadcast TWT SP, encoded according to Table 9-262k1" -- but that table discusses both the scheduling STA and scheduled STA	Delete "scheduled"	2017/1/9 9:42
7924 Mark RISON	225	1 9.4.2.200	70	27	T	Y	70.27 9.4.2.200	"Description when transmitted by a TWT scheduling STA, Wake TBTT Negotiation subfield = 1" is incompatible with " The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA." at line 2 above	Change "1" to "0"	2017/1/9 9:42
7925 Mark RISON	225	1 9.4.2.200	70	27	T	Y	70.27 9.4.2.200	Descriptions of the other four cases (requesting/responding when Wake TBTT Negotiation Subfield = 1 and scheduling/scheduled when = 0) are missing	Delete ", Wake TBTT Negotiation subfield = [0/1]" in each cell (4 deletions)	2017/1/9 9:42
7926 Mark RISON	225	1 9.4.2.200	70	43	E	Y	70.43 9.4.2.200	Spurious asterisk	Delete the asterisk	2017/1/9 9:42
7927 Mark RISON	225	1 9.4.2.200	71	30	T	Y	71.30 9.4.2.200	There can be no TWT request to accept since a scheduled STA cannot make a request (see 70.35)	Change the cell to "N/A"	2017/1/9 9:42
7928 Mark RISON	225	1 9.4.2.200	71	33	E	Y	71.33 9.4.2.200	It says "(See" in the 4th column	Change to "(see"	2017/1/9 9:42
7929 Mark RISON	225	1 9.4.2.200	73	22	T	Y	73.22 9.4.2.200	"There are no restrictions on the frames transmitted by the schedul- ing STA of the broadcast TWT SP." -- but the scheduling STA is the AP, so the next para does introduce restrictions	Delete the cited text; also at line 49. Also fix at line 56 to only refer to the scheduled STA	2017/1/9 9:42

7930	Mark RISON	225	1 9.4.2.200	73	9	T	Y	73.09 9.4.2.200	"Feedback can be contained is the QoS Control field or in the HE variant HT Control field of the frame," -- a PS-Poll cannot carry either	At line 8 and line 33 change "PS-Poll and QoS Null frames" to "QoS Null frames and PS-Poll frames contained in Control Wrapper frames"	2017/1/9 9:42
7931	Mark RISON	225	1 9.4.2.200	73	45	E	Y	73.45 9.4.2.200	There are 3 instances of "(Re-)Association" in the document	Change each to "(Re)Association"	2017/1/9 9:42
7932	Mark RISON	225	1 9.4.2.200	73	58	E	Y	73.58 9.4.2.200	There are 2 instances of "FILS discovery frame" in the document	Change each to "FILS Discovery frame"	2017/1/9 9:42
7933	Mark RISON	225	1 9.3.1.9.7	38	50	E	Y	38.50 9.3.1.9.7	There are 3 instances of "Action Ack frame" in the document	Change each to "Action frame"	2017/1/9 9:42
7934	Mark RISON	225	1 9.3.1.9.7	38	4	T	Y	38.04 9.3.1.9.7	"NOTE---When a Multi-STA BlockAck frame is used to acknowledge a management frame, the TID value is set to 15." -- according to e.g. Table 9-24b this is only the case for Action frames	Delete this NOTE	2017/1/9 9:42
7935	Mark RISON	225	1 9.3.1.9.7	38	53	E	Y	38.53 9.3.1.9.7	"N/A" is not the name of a subfield	Change to "Block Ack Bitmap"	2017/1/9 9:42
7936	Mark RISON	225	1 9.3.1.9.7	38	39	E	Y	38.39 9.3.1.9.7	"N/A" in the third column is not the name of a subfield	Change to "Block Ack Starting Sequence Control and Block Ack Bitmap" in the third column at lines 39, 41 and 49	2017/1/9 9:42
7937	Mark RISON	225	1 9.7.1	106	32	T	Y	106.32 9.7.1	"Set to 1 in an A-MPDU subframe that has 0 in the MPDU Length field and that is used to pad the A-MPDU in a VHT or HE PPDU as described in 10.13.6 (A-MPDU padding for VHT PPDU). Set to 1 in the MPDU delimiter of a S-MPDU as described in 10.13.7 (Setting the EOF field of the MPDU delimiter). Set to 0 otherwise." -- it can also be set to 1 in a multi-TID A-MPDU	Before the last sentence add "Can be set to 1 in the MPDU delimiter of one or more MPDUs in a multi-TID A-MPDU as described in 27.10.4."	2017/1/9 9:42
7938	Mark RISON	225	1 27.4.4.1	160	34	T	Y	160.34 27.4.4.1	"in an A-MPDU or multi-TID A-MPDU" -- a multi-TID A-MPDU is an A-MPDU	Delete "or multi-TID A-MPDU"	2017/1/9 9:42
7939	Mark RISON	225	1 27.4.4.1	160	34	T	Y	160.34 27.4.4.1	"when these frames are carried in an A-MPDU or multi-TID A-MPDU" -- it can do so even if they are not (e.g. using the Ack Policy in an MPDU sent in an 11abg PPDU)	Delete the cited text	2017/1/9 9:42
7940	Mark RISON	225	1 27.10.4	193	32	T	Y	193.32 27.10.4	There are 5 instances of "nonzero length MPDU delimiter". All MPDU delimiters have non-zero length (they all have a length of 4 octets)	Change each instance to "MPDU delimiter with the MPDU Length subfield not equal to 0"	2017/1/9 9:42
7941	Mark RISON	225	1 27.10.4	193	50	T	Y	193.50 27.10.4	" if the QoS Data frame or Action frame solicits an immediate Ack frame." -- as indicated at line 61, it does not solicit an Ack frame, it solicits a MSBA frame	Change to "[...] that solicits an Ack indication in a Multi-STA Block Ack frame"	2017/1/9 9:42
7942	Mark RISON	225	1 27.10.4	193	56	T	Y	193.56 27.10.4	" that solicits BlockAck" -- this is unclear	Change to "[...] that solicits a BlockAck indication in a Multi-STA Block Ack frame"	2017/1/9 9:42
7943	Mark RISON	225	1 27.10.4	193	53	T	Y	193.53 27.10.4	"A multi-TID A-MPDU may contain multiple noncontiguous nonzero length MPDU delimiters with EOF subfield equal to 1, one for each TID that solicits Ack and/or multiple noncontiguous nonzero length MPDU delimiters with EOF subfield equal to 0, one for each TID that solicits BlockAck." -- this is extremely unclear (and some aspects seem wrong, e.g. there can be more than one per TID for the BA case)	Change to "A multi-TID A-MPDU may contain multiple nonzero length MPDU delimiters with EOF subfield equal to 1, but no more than one for each TID. A multi-TID A-MPDU may contain multiple nonzero length MPDU delimiters with EOF subfield equal to 0. NOTE---The MPDUs may be in any order, irrespective of their TID and the EOF subfield of their delimiter."	2017/1/9 9:42
7944	Mark RISON	225	1 27.10.4	193	58	T	Y	193.58 27.10.4	"that receives a multi-TID A-MPDU" -- it is not clear how such an A-MPDU is identified	Change to "that receives an A-MPDU with more than one MPDU delimiter with the EOF subfield equal to 1 and the MPDU Length subfield not equal to 0, or with MPDUs from more than one TID, or with both Management and Data frames"	2017/1/9 9:42

7945	Mark RISON	225	1 27.10.4	194	14	T	Y	194.14 27.10.4	"An HE STA may aggregate in a multi-TID A-MPDU QoS Data frames with multiple TIDs as defined in Table 9-425 (A-MPDU contents in the data enabled immediate response context) or Table 9-426 (A-MPDU contents in the data enabled no immediate response context)." duplicates "An HE STA shall construct a multi-TID A-MPDU as defined in 9.7" above	Delete the (first) cited text		2017/1/9 9:42
7946	Mark RISON	225	1 27.10.4	194	31	E	Y	194.31 27.10.4	It says "TXOP limit" twice	Add "the" before the cited text at line 31 and line 32		2017/1/9 9:42
7947	Mark RISON	225	1 27.10.4	194	1	T	Y	194.01 27.10.4	"One Per STA Info field indicating a BlockAck for each TID of a successfully received MPDU that solicits a response that is preceded by a nonzero length MPDU delimiter whose EOF is 0 (TID value equals that of the QoS Data frame)." -- this is unclear in the case where there is more than one such frame per TID	Change to "One Per STA Info field indicating a BlockAck for each TID present in the successfully received MPDUs that solicited a response that is preceded by a nonzero length MPDU delimiter whose EOF is 0 (TID value equals that of the QoS Data frame)."		2017/1/9 9:42
7948	Mark RISON	225	1 27.10.4	193	50	T	Y	193.50 27.10.4	" if the QoS Data frame or Action frame solicits an immediate Ack frame." -- it is not clear what the condition is	Add a "NOTE---A QoS Data frame solicits an immediate non-block acknowledgement if the Ack Policy is Normal Ack or Implicit Block Ack Request and the TID does not correspond to a block ack agreement. An Action frame always solicits an immediate acknowledgement."		2017/1/9 9:42
7949	Mark RISON	225	1 27.10.4	193	56	T	Y	193.56 27.10.4	"that solicits BlockAck" -- it is not clear what the condition is	Add a "NOTE---A QoS Data frame solicits an immediate block acknowledgement if the Ack Policy is Normal Ack or Implicit Block Ack Request and the TID corresponds to a block ack agreement."		2017/1/9 9:42
7950	Mark RISON	225	1 27.10.4	193	47	T	Y	193.47 27.10.4	There is no need for this overloading of the EOF field	Replace lines 193.47 to 194.4 with: An HE STA shall construct a multi-TID A-MPDU as defined in 9.7 (Aggregate MPDU (A-MPDU)) and 10.13 (A-MPDU operation) except that there may be QoS Data frames with different TIDs in the A-MPDU (but no more than one per TID if not sent under a block ack agreement) and there may be an Action frame in the A-MPDU. An HE STA that receives a multi-TID A-MPDU shall respond with a Multi-STA BlockAck frame that contains (see 27.4 (Block acknowledgement)) one Per STA Info field per TID of the successfully received MPDUs and also one Per STA Info field if an Action frame was successfully received, where: - For MPDUs sent under a block ack agreement, the Ack		2017/1/9 9:42
7951	Mark RISON	225	1 9.3.1.9.7	37	23	E	Y	37.23 9.3.1.9.7	"The format defined below is used for multi-STA multi-TID, and multi-STA single TID BlockAck variant." -- there is no such thing as a "multi-STA single TID BlockAck variant	Change to "The format defined below is used for both multi-TID and single-TID multi-STA operation."		2017/1/9 9:42
7952	Mark RISON	225	1 9.3.1.9.7	37	23	E	Y	37.23 9.3.1.9.7	"The format defined below is used for multi-STA multi-TID, and multi-STA single TID BlockAck variant." -- it's also used for single-STA multi-TID operation	Change to "The format defined below is used for both multi-TID and single-TID multi-STA operation, and for multi-TID single-STA operation."		2017/1/9 9:42
7953	Mark RISON	225	1			E	Y		We don't include representation details in field names	Delete "M1" throughout (in "Highest NSS Supported M1" and "NSS M1")		2017/1/9 9:42
7954	Mark RISON	225	1 9.3.1.23	48	17	T	Y	48.17 9.3.1.23	"STBC is disallowed for Trigger Frame transmission." is behaviour, not format	Move to 27.15.2 (and lowercase "frame")		2017/1/9 9:42

7955	Mark RISON	225	1 9.3.1.23	47	44	E	Y	47.44 9.3.1.23	" The Padding field of the Trigger frame, if present, is an integer number of octets >= 2. Padding field starts with special STAID[11:0] as 0xFFF and the rest bits of the Padding field are all set to one. 0xFFF is reserved as the special value to indicate the start of the MAC padding. The length of the Padding field is in units of octets and is set as defined in the following formulas" -- "starts with special STAID[11:0] as 0xFFF" is meaningless and "0xFFF is reserved as the special value to indicate the start of the MAC padding." is not normative and "The length of the Padding field is in units of octets" is meaningless	Change to "The Padding field, if present, is at least 2 octets long and contains all-ones. NOTE—This field starts like a User Info field with AID12 equal to 4095, which is reserved."		2017/1/9 9:42
7956	Mark RISON	225	1 9.3.1.23	48	4	T	Y	48.04 9.3.1.23	"N_DBPS,SHORT" is not defined	Give a xref to Equation (28-61)		2017/1/9 9:42
7957	Mark RISON	225	1 28.3.11.5.4	320	14	E	Y	320.14 28.3.11.5.4	"N_DBPS,short" is not defined	Change to "N_DBPS,SHORT" at 320.14 and 321.22		2017/1/9 9:42
7958	Mark RISON	225	1 9.3.1.23	47	55	T	Y	47.55 9.3.1.23	"N_DBPS" is not defined	Give a xref to some equation or table in Clause 28		2017/1/9 9:42
7959	Mark RISON	225	1 27.6.2	177	38	T	Y	177.38 27.6.2	It is not clear how missed segments are requested in the SU PPDU case. The problem is that the only way to do this is to send a BRP variant Trigger, but such a trigger would be preceded by an NDPA with only one STA Info, which would confuse the beamformee	Add a "NOTE—If an HE beamformer does not successfully receive all feedback segments from the HE beamformee, it cannot use a Beamforming Report Poll variant Trigger frame unless it has another HE beamformee to poll. In this case it can only repeat the entire sequence."		2017/1/9 9:42
7960	Mark RISON	225	1 27.5.2.5	171	40	E	Y	171.40 27.5.2.5	Invalid xref	Change "XX" to "18c"		2017/1/9 9:42
7961	Mark RISON	225	1 11.1.3.10	141	37	T	Y	141.37 11.1.3.10	For dual beacons to work w.r.t. both non-HE STAs and distant HE STAs, group-addressed traffic needs to be sent twice, once after each of the beacon types	After "When Beacon frames are transmitted in two PHY formats, the HE AP shall transmit Beacon frames in non-HE format and in HE_EXT_SU format." add "The HE AP shall transmit buffered non-GCR-SP group addressed BUs twice, once immediately after each of these Beacon frames, when they are DTIM Beacons frames (see 11.2.3.4)." Also add a bit to HE Operation to indicate which kind of beacon it is (cf. STBC Beacon in 802.11-2016 page 953)		2017/1/9 9:42
7962	Mark RISON	225	1 27.10.4	193	49	T	Y	193.49 27.10.4	In an A-MPDU containing multiple MPDUs of different TID, each with EOF = 1, it is unclear whether each of these MPDUs is to be treated as a VHT Single MPDU	At the end of the sentence add "(these frames are treated as S-MPDUs)"		2017/1/9 9:42
7963	Mark RISON	225	1 10.43.1	137	58	E	Y	137.58 10.43.1	Table uses terms first STA and second STA whilst the text uses the terms requesting station and responding station	In the table, change "first STA" to "requesting STA" throughout, and "second STA" to "responding STA" throughout		2017/1/9 9:42
7964	Mark RISON	225	1 10.43.1	138	33	E	Y	138.33 10.43.1	Non-IEEE terminology	Change "The requesting STA can send a new request with any set of TWT parameters and the responder might entertain the creation of an individual TWT agreement using those parameters." to "The requesting STA may send a new request considering the alternative parameters." Ditto at 139.29		2017/1/9 9:42
7965	Mark RISON	225	1 27.4.3	159	32	E	Y	159.32 27.4.3	In the buffer size lists the previous is a subset of the subsequent item making the bitmap widrth rules contradictory	Change, in this order of appearance, "within [1, 64]" to "less than 65" "within [1, 256]" to "more than 64" "within [1, 64]" to "less than 65" "within [1, 128]" to "between 65 and 128" "within [1, 256]" to "more than 128"		2017/1/9 9:42

7966	Mark RISON	225	1 27.4.3	160	14	E	Y	160.14 27.4.3	10.24.7 should be updated us use the term BitmapLength. Even without that, this note is more than informative.	Modify 10.24.7. to use BitmapLength and BitmapLength - 1 rather than the magic numbers 63 and 64, and in one place state that for non-HE STAs BitmapLength is 64. Then here state that BitmapLength is whatever bitmap length results from the rules in this subclause.		2017/1/9 9:42
7967	Mark RISON	225	1 27.4.3	160	17	T	Y	160.17 27.4.3	The length is also limited by this UL RU duration	Add this and any other limitations		2017/1/9 9:42
7968	Mark RISON	225	1 27.5.2.1	163	19	T	Y	163.19 27.5.2.1	This is normative, not just informative	Change "Non-AP STAs transmit their response frames using HE trigger-based PPDU format, in either UL OFDMA, UL MU-MIMO, or both, except when the Trigger frame is of type MU-RTS, in which case the response (CTS) is sent in a non-HT PPDU format (see 10.3.2.8a (MU-RTS/CTS procedure))." to "Non-AP STAs shall transmit their response frames using HE trigger-based PPDU format, in either UL OFDMA, UL MU-MIMO, or both, except when the Trigger frame is of type MU-RTS, in which case the response (CTS) shall be sent in a non-HT PPDU format (see 10.3.2.8a (MU-RTS/CTS procedure))."		2017/1/9 9:42
7969	Mark RISON	225	1 27.5.2.1	164	19	E	Y	164.19 27.5.2.1	Inconsistent use of STA, AP and HE AP for procedures that appear to be AP specific procedures	Change "A STA shall not transmit a Trigger frame assigning an MU-MIMO RU in an UL OFDMA PPDU when the RU does not span that entire PPDU bandwidth to a STA from which it has not received an HE Capabilities element with B23 of the UL MU subfield of the HE PHY Capabilities Information field set to 1. A STA shall not transmit a Trigger frame soliciting a full bandwidth UL MU-MIMO HE trigger-based PPDU from a STA from which it has not received an HE Capabilities element with B22 of the UL MU subfield of the HE PHY Capabilities Information field set to 1. " to "An HE AP shall not transmit a Trigger frame assigning an MU-MIMO RU in an UL OFDMA PPDU when the RU does not span that entire PPDU bandwidth to a STA from which it has not received		2017/1/9 9:42
7970	Mark RISON	225	1 27.8.1	188	29	T	Y	188.29 27.8.1	No mention of support of OMI A-Control in receiver	Change "If dot11OMIOptionImplemented is true, an HE STA may send a QoS Data or QoS Null frame that contains the OMI A-Control field to indicate a change in its receive and/or transmit operating parameters." to "If dot11OMIOptionImplemented is true, an HE STA may send to a STA that indicated OMI A-Control support in its HE Capabilities element a QoS Data or QoS Null frame that contains the OMI A-Control field to indicate a change in its receive and/or transmit operating parameters."		2017/1/9 9:42
7971	Mark RISON	225	1 27.10.3	193	19	T	Y	193.19 27.10.3	Constraint on EOF not reverting to 0 after 1 inconsistent with 27.10.4	Remove setting EOF for Ack policy in 27.10.4		2017/1/9 9:42

7972	Mark RISON	225	1 27.6.2	176	21	T	Y	176.21 27.6.2	"If an HE AP does not receive an HE Capabilities element with the Rx Control Frame To MultiBSS subfield in the HE MAC Capabilities Information field equal to 1 from a STA, the HE AP shall not send a NDP Announcement frame whose destination STAs associate with more than one APs to the STA." is not clear ("APs to the STA" is especially confusing, as is "associate with more than one AP"). Also wrong pronoun before "NDP" and plurality for "APs"	Change to "If an HE AP does not receive from a STA an HE Capabilities element with the Rx Control Frame To MultiBSS subfield in the HE MAC Capabilities Information field equal to 1, the HE AP shall not send to the STA an NDP Announcement frame whose destination STAs are associated with more than one BSS."	2017/1/9 9:42
7973	Mark RISON	225	1 26.5.2.3	168	17	T	Y	168.17 26.5.2.3	There is an issue if this length is shorter than the CBR that we generated, because 27.6.3 says we can't always fragment CBRs	Add at 168.19 a "NOTE—It is not always possible to fragment HE compressed beamforming feedback (see 27.6.3). If the length is insufficient to contain the HE compressed beamforming feedback requested by a Beamforming Report Poll variant Trigger frame, no feedback is sent."	2017/1/9 9:42
7974	Mark RISON	225	1 27.5.2.5	171	50	T	Y	171.50 27.5.2.5	If the queue size of both fields is a non-255 value the values need to be consistent	Append to the NOTE "If neither is 255, the values ought to be consistent (e.g. if the latter refers to the same TID as the former, the value ought to be the same)."	2017/1/9 9:42
7975	Mark RISON	225	1 10.3.2.8a.2	117	10	T	Y	117.10 10.3.2.8a.2	It is not clear whether an MU-RTS can be carried in a VHT MU PPDU	Add "VHT or" before "HE" at the cited location	2017/1/9 9:42
7976	Mark RISON	225	1 10.3.2.8a.3	118	30	T	Y	118.30 10.3.2.8a.3	In the example shown in Figure 10-9c, if STA2 does not respond with a CTS, it is not clear whether the AP is permitted to transmit using both primary and secondary 20MHz channels	At the end of 10.3.2.8a.2 add a para "The transmitter of an MU-RTS frame shall not subsequently transmit during the TXOP in any 20 MHz channel for which it did not receive a CTS frame."	2017/1/9 9:42
7977	Mark RISON	225	1 11.1.3.10	141	39	T	Y	141.39 11.1.3.10	"The Beacon frame transmitted in non-HE PPDU format has TBTT at the TSF value 0." is unclear	Change to "Time 0 is defined to be a TBTT for the Beacon frame transmitted in non-HE PPDU format (see 11.1.3.2)."	2017/1/9 9:42
7978	Mark RISON	225	1 11.1.3.10	141	44	T	Y	141.44 11.1.3.10	"The Beacon frame transmitted in HE extended range SU PPDU has TBTT at the TSF value 0 plus the TBTT offset which value is a half of the value of the Beacon Interval field of the Beacon frame sent in non-HE format." is unclear	Change to "The TBTT for the Beacon frame transmitted in HE extended range SU PPDU format shall be offset by half of a beacon interval from the TBTT of the Beacon frame transmitted in non-HE PPDU format."	2017/1/9 9:42
7979	Mark RISON	225	1 11.1.3.10	141	50	T	Y	141.50 11.1.3.10	"The non-HE format and HE EXT_SU PPDU format Beacon frames may contain different set of elements." is far too loose	Change to "Except for the setting of the TIM field and TSF field, all other fields inside the Beacon frame transmitted in HE extended range SU PPDU format shall be identical to the Beacon frame transmitted in non-HE PPDU format." At 141.41 delete "as indicated in the Beacon frame transmitted in non-HE PPDU format" and change "Beacon interval" to "beacon interval". At 141.48 delete "as indicated in the Beacon frame transmitted in the HE extended range SU PPDU."	2017/1/9 9:42
7980	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the BSR acronym in subclause 3.4	As in comment.	2017/1/9 9:42
7981	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the BQR acronym in subclause 3.4	As in comment.	2017/1/9 9:42
7982	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the BSRP acronym in subclause 3.4	As in comment.	2017/1/9 9:42
7983	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the BQRP acronym in subclause 3.4	As in comment.	2017/1/9 9:42
7984	Massinissa Lalam	225	1 9.4.2.218.3	83	26	E	Y	83.26 9.4.2.218.3	In Table 9-262aa, check font size for B17 definition	As in comment.	2017/1/9 9:42
7985	Massinissa Lalam	225	1 9.4.2.218.3	82	45	E	Y	82.45 9.4.2.218.3	In Table 9-262aa, add extra line between each Bxx definition for the Preamble Puncturing Rx row	As in comment.	2017/1/9 9:42
7986	Massinissa Lalam	225	1 9.4.2.218.3	83	40	T	Y	83.40 9.4.2.218.3	The "Doppler procedure" is not defined in this draft. Either add its definition or referred to its definition if it is already defined in another amendment.	As in comment.	2017/1/9 9:42
7987	Massinissa Lalam	225	1 9.4.2.218.3	84	6	E	Y	84.06 9.4.2.218.3	In Table 9-262aa, replace "support of Tx" with "support of transmission" in the DCM encoding at Tx and Rx row	As in comment.	2017/1/9 9:42

7988	Massinissa Lalam	225	1 9.4.2.218.3	84	33	E	Y	84.33 9.4.2.218.3	In Table 9-262aa, check font size of "Set to 1 if sent by an HE AP with support for 4 or more spatial streams" in the SU Beamformer row	As in comment.	2017/1/9 9:42
7989	Massinissa Lalam	225	1 9.4.2.218.3	85	48	E	Y	85.48 9.4.2.218.3	In Table 9-262aa, add extra line between each Bxx definition for the Tx Beamforming Feedback With Trigger Frame row,	As in comment.	2017/1/9 9:42
7990	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the PPE acronym in subclause 3.4	As in comment.	2017/1/9 9:42
7991	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the PE (Packet Extension) acronym in subclause 3.4	As in comment.	2017/1/9 9:42
7992	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the SRP acronym in subclause 3.4	As in comment.	2017/1/9 9:42
7993	Massinissa Lalam	225	1 9.4.2.218.4	87	56	T	Y	87.56 9.4.2.218.4	How can a STA know the size of the "Tx Rx HE MCS Support field" since Tx BW Bitmap and Rx BW Bitmap may not be present as they are "beyond Highest MCS Supported filed" in case all of their bits are equal to zero? Indeed, the sentence "If all of the bits of the Tx BW Bitmap subfield and all of the bits of the Rx BW Bitmap subfield are zero, then none of the subfields of the Tx Rx HE MCS Support field beyond Highest MCS Supported need to be present." implies that the Tx Rx HE MCS Support field can have a size as low as 6 bits. In my opinion the "Tx BW Bitmap" and "Rx BW bitmap" should always be present to maintain a minimum of a 2 bytes field (coherent with Figure 9-589cj), extended by one byte each time a bit is at 1 Tx BW Bitmap and Rx BW Bitmap. Therefore, the begining of the next subfield "PPE Thresholds (optional)" can also be uniquely defined.	Please consider revision. For instance, replacing the whole paragraph with "If all of the bits of the Tx BW Bitmap subfield and all of the bits of the Rx BW Bitmap subfield are zero, then none of the subfields of the Tx Rx HE MCS Support field beyond Rx BW Bitmap are present."	2017/1/9 9:42
7994	Massinissa Lalam	225	1 9.4.2.218.5	88	64	T	Y	88.64 9.4.2.218.5	What does "RU allocation index 0" means? Please give a definition of "RU allocation index".	As in comment.	2017/1/9 9:42
7995	Massinissa Lalam	225	1 9.4.2.219	92	7	T	Y	92.07 9.4.2.219	The whole paragraph about the "nontransmitted BSSID", "Nontransmitted BSSID", "transmitted BSSID" and "Transmitted BSSID" is really confusing. Please consider revision since one can not easily make the distinction all the terms use (some times with capital letter, some without).	As in comment.	2017/1/9 9:42
7996	Massinissa Lalam	225	1 9.4.2.219	92	19	T	Y	92.19 9.4.2.219	It is not clear if the BSS Color Disabled set to 1 is a recommendation or an action that non-AP STAs associated to the AP shall perform (i.e. disabling BSS colos)	Replace "The BSS Color Disabled subfield indicates whether the transmitting AP recommends the ..." with "The BSS Color Disabled subfield indicates whether the transmitting AP commands the ..." if the intent is to have a mandatory behavior. Otherwise, replace in the next sentence "An HE AP sets the BSS Color Disabled subfield to 1 if the HE AP decides to disable ..." with "An HE AP sets the BSS Color Disabled subfield to 1 if the HE AP recommends to disable ...".	2017/1/9 9:42
7997	Massinissa Lalam	225	1 9.4.2.219	92	36	T	Y	92.36 9.4.2.219	It seems to me that the Dual Beacon subfield does not "indicate" the TBTT offset of the Beacon frame in HE extended range SU PPDU format. This offset is fixed and defined in subclause 11.1.3.10.	Delete the sentence "The Dual Beacon subfield also indicates the TBTT offset of Beacon frame in HE extended range SU PPDU in 11.1.3.10 (Beacon generation in an HE BSS)." Add the sentence "The TBTT offset of Beacon frame in HE extended range SU PPDU is defined in 11.1.3.10 (Beacon generation in an HE BSS)." after "The subfield is set to 1 if the HE AP transmits beacons in an HE extended range SU PPDU and a non-HE PPDU.".	2017/1/9 9:42

7998	Massinissa Lalam	225	1 9.4.2.219	93	10	T	Y	93.10 9.4.2.219	Is VHT Operation Information field necessary for HE AP operating in the 5 GHz band? Since an HE STA is also a VHT STA in the 5 GHz band, does it make sense to repeat these 3 bytes? Especially since it is more than likely that a VHT Operation Element will also be present in a 5 GHz AP for backward compatibility reason. The only interest seems to be in the 2,4 GHz band where VHT is not defined.	Consider deleting "VHT Operation Information" from the "HE Operation" element if the "VHT Operation" is also present in the frame carrying the "HE Operation" element. The sentence "The VHT Operation Information field is present in the HE Operation element only if no VHT Operation element is present in the same management frame carrying the HE Operation element." should be placed before "The structure of the VHT Operation Information field is defined in Figure 9-564 (VHT Operation Information field) and its subfields are defined in Table 9-252 (VHT Operation Information subfields)". Figure 9-589cq should also be changed with the size of VHT Operation Information being 0 or 3 octets instead of 3.		2017/1/9 9:42
7999	Massinissa Lalam	225	1 9.4.2.220	93	26	E	Y	93.26 9.4.2.220	Replace "Lenght" with "Length" in Figure 9-589ct	As in comment.		2017/1/9 9:42
8000	Massinissa Lalam	225	1 3.2	3	47	E	N	3.47 3.2	I think that in the sentence "Clause 21 (Very High Throughput (VHT) PHY specification(11ac))", the "(11ac)" part should be deleted. However, I admit that this is more a comment for a possible rev md than 11ax, unless we want to align also the sentence "Clause 28 (High Efficiency (HE) PHY specification)", by adding "Clause 28 (High Efficiency (HE) PHY specification(11ax))", But I do not favor this option. My preference would be to take the opportunity to delete this extra text if possible.	If within the scope/perimeter of the 11ax WG, please replace "Clause 21 (Very High Throughput (VHT) PHY specification(11ac))" with "Clause 21 (Very High Throughput (VHT) PHY specification".		2017/1/9 9:42
8001	Massinissa Lalam	225	1 3.2	4	26	E	Y	4.26 3.2	The "j)" subsection should be underligned as it basically introduces HE40 PPDU.	Please underlign the whole "j)" bullet sentence.		2017/1/9 9:42
8002	Massinissa Lalam	225	1 3.2	4	27	E	Y	4.27 3.2	In the "j)" subsection, "Clause 26" should be replaced with "Clause 28".	As in comment.		2017/1/9 9:42
8003	Massinissa Lalam	225	1 3.2	4	53	E	Y	4.53 3.2	Add "PPDUs" at the end of the sentence "One of the following" to be aligned with the "40 MHz mask ..." subsection.	Replace "One of the following:" with "One of the following PPDUs:".		2017/1/9 9:42
8004	Massinissa Lalam	225	1 3.2	4	57	E	Y	4.57 3.2	In the "a)" subsection, terminate the sentence with point (.).	As in comment.		2017/1/9 9:42
8005	Massinissa Lalam	225	1 3.2	4	61	E	Y	4.61 3.2	In the "b)" subsection, terminate the sentence with point (.).	As in comment.		2017/1/9 9:42
8006	Massinissa Lalam	225	1 3.2	4	65	E	Y	4.65 3.2	In the "c)" subsection, terminate the sentence with point (.).	As in comment.		2017/1/9 9:42
8007	Massinissa Lalam	225	1 3.2	5	4	E	Y	5.04 3.2	In the "d)" subsection, terminate the sentence with point (.).	As in comment.		2017/1/9 9:42
8008	Massinissa Lalam	225	1 3.2	5	9	E	Y	5.09 3.2	Delete the extra "f)" added at the begining of the sentence.	As in comment.		2017/1/9 9:42
8009	Massinissa Lalam	225	1 3.2	5	10	E	Y	5.10 3.2	Delete the extra "g)" added at the begining of the sentence.	As in comment.		2017/1/9 9:42
8010	Massinissa Lalam	225	1 3.2	5	28	E	Y	5.28 3.2	Add "PPDUs" at the end of the sentence "One of the following" to be aligned with the "40 MHz mask ..." subsection.	Replace "One of the following:" with "One of the following PPDUs:".		2017/1/9 9:42
8011	Massinissa Lalam	225	1 3.2	5	26	E	Y	5.26 3.2	Terminate all subsections (from "a)" to "h)") with a point (.).	As in comment.		2017/1/9 9:42
8012	Massinissa Lalam	225	1 3.2	6	8	E	Y	6.08 3.2	Add "PPDUs" at the end of the sentence "One of the following" to be aligned with the "40 MHz mask ..." subsection.	Replace "One of the following:" with "One of the following PPDUs:".		2017/1/9 9:42
8013	Massinissa Lalam	225	1 3.2	6	6	E	Y	6.06 3.2	Terminate all subsections (from "a)" to "e)") with a point (.).	As in comment.		2017/1/9 9:42
8014	Massinissa Lalam	225	1 4.3.14a	9	25	T	Y	9.25 4.3.14a	I would have thought that in the 2.4GHz band an HE AP would also be an HT AP for at least two reasons 1) backward compatibility reason dictated by the PAR, 2) since an HE non-AP STA is also an HT non-AP STA.	Please replace "- An HE non-AP STA is also an HT non-AP STA" with "- An HE STA is also an HT STA".		2017/1/9 9:42
8015	Massinissa Lalam	225	1 9.2.4.5.6	21	6	E	N	21.06 9.2.4.5.6	Replace "can" with "may".	As in comment.		2017/1/9 9:42

8016	Massinissa Lalam	225	1 9.3.1.8.1	33	43	E	Y	33.43 9.3.1.8.1	The sentence "Change the 4th paragraph as follows:" should be in italic (+bold).	As in comment.	2017/1/9 9:42
8017	Massinissa Lalam	225	1 9.3.1.9.3	36	13	E	Y	36.13 9.3.1.9.3	Please precise where the Fragment Number subfield comes from. For instance, replace "The Fragment Number subfield is set as defined in Table 9-24a" with "The Fragment Number subfield of the Block Ack Starting Sequence Control subfield is set as defined in Table 9-24a".	As in comment.	2017/1/9 9:42
8018	Massinissa Lalam	225	1 9.3.1.9.7	38	13	E	Y	38.13 9.3.1.9.7	"Ack Type subfield" is used through all the subclause. Please stay consistent and replace "The Ack Type field is not set to 1 when responding to a BlockAckReq frame or an MU-BAR frame." with "The Ack Type subfield is not set to 1 when responding to a BlockAckReq frame or an MU-BAR frame."	As in comment.	2017/1/9 9:42
8019	Massinissa Lalam	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23	In Figure 9-52d, add a space between "GI" and "And" in the "GIAnd LTF Type" subfield (B20-B21).	As in comment.	2017/1/9 9:42
8020	Massinissa Lalam	225	1 9.1.3.23	41	34	E	Y	41.34 9.1.3.23	In this subclause, we have for the subfields description of the Common Info field for instance: "The CS Required subfield is ...", "The BW subfield indicates ...", and "The GI And LTF Type subfield of the Common Info field indicates ...", "The MU-MIMO LTF Mode subfield of the Common Info field". Either add "of the Common Info field" each time a subfield description of the Common Info field is missing it (e.g. Cascade Indication, CS Required, BW, Spatial Reuse, Doppler, HE-SIG-A Reserved) or delete it each time it appears in a subfield description of the Common Info field to stay consistent. I do prefer the first option though (more precise).	As in comment.	2017/1/9 9:42
8021	Massinissa Lalam	225	1 9.1.3.23	44	50	E	Y	44.50 9.1.3.23	In table 9-25e, correct the description when AP Tx Power subfield value is between 0 and 60. Replace "Values 0 to 61 maps to -20 dBm to 40 dBm" with "Values 0 to 60 maps to -20 dBm to 40 dBm".	As in comment.	2017/1/9 9:42
8022	Massinissa Lalam	225	1 9.1.3.23	45	11	T	Y	45.11 9.1.3.23	The "high doppler mode of transmission" is not clearly defined in the draft. What is the criteria to consider it "high" or not? What are the consequences for the STA? Also through all the document the "Doppler procedure" is also mentionned in relation with this Doppler bit, but no clear link is established between this procedure and this mode of transmission. Please clarify.	Please, add clarifications on what the "high doppler mode transmission" is and what are the consequences of it for a STA.	2017/1/9 9:42
8023	Massinissa Lalam	225	1 9.1.3.23	47	46	G	N	47.46 9.1.3.23	So the special STAID[11:0] is in fact AID12 with the value 0xFFF? I think that it should be more clearly stated that the padding is in fact a special User Info Field with AID12 subfiled being equal to 0xFFF, the rest being filed with ones. At least, one could replace "starts with special STAID[11:0] as" with "starts with special AID12 subfield as".	As in comment.	2017/1/9 9:42
8024	Massinissa Lalam	225	1 9.2.4.6.4.1	24	34	E	Y	24.34 9.2.4.6.4.1	Please consider replacing "Operation Mode" with "Operating Mode Indication (OMI)" in Table 9-18a (and subsequent clause 9.2.4.6.4.3) to make the link with the "OMI A-Control Support" field the HE MAC capabilities Table 9-262z more obvious for the reader (like it is done for BSR and BQR).	As in comment.	2017/1/9 9:42

8025	Massinissa Lalam	225	1 9.3.1.23.3	49	62	E	Y	49.62 9.3.1.23.3	For consistency with previous trigger frame variants description, the first sentence should be "If the Trigger frame is a MU-BAR variant, the Trigger Dependent Common Info field is not present and the Trigger Dependent User Info field is defined in Figure 9-52i (Trigger Dependent User Info field for the MU-BAR variant).".	As in comment.	2017/1/9 9:42
8026	Massinissa Lalam	225	1 9.3.1.23.4	50	22	E	Y	50.22 9.3.1.23.4	For consistency with previous trigger frame variants description, the first sentence should be "If the Trigger frame is a MU-RTS variant, the Trigger Dependent Common Info field is not present and the Trigger Dependent User Info field is not present". The two NOTEs (pg50,ln43 and pg51,ln15) can be deleted.	As in comment.	2017/1/9 9:42
8027	Massinissa Lalam	225	1 9.3.1.23.4	50	22	E	Y	50.22 9.3.1.23.4	In general, the presentation of this subclause should be aligned with the previous trigger frame variant presentations. If specific values are set for given subfields (Common or User) then it is worth mentioning them, but lines 22, 31, 46 are useless in my opinion (or by default covered by the parent subclause 9.3.1.23).	As in comment.	2017/1/9 9:42
8028	Massinissa Lalam	225	1 9.3.1.23.5	51	17	E	Y	51.17 9.3.1.23.5	Replace the subclause title "BSRP variant" with "Buffer Status Report Poll variant" to stay consitent with the BQRP subclause title and the Table 9-25a.	As in comment.	2017/1/9 9:42
8029	Massinissa Lalam	225	1 9.3.1.23.5	51	20	E	Y	51.20 9.3.1.23.5	For consistency with previous trigger frame variants description, this whole subclause should read "If the Trigger frame is a Buffer Status Report Poll (BSRP) variant, the Trigger Dependent Common Info field is not present and the Trigger Dependent User Info field is not present.".	As in comment.	2017/1/9 9:42
8030	Massinissa Lalam	225	1 9.3.1.23.6	51	33	E	Y	51.33 9.3.1.23.6	For consistency with previous trigger frame variants description, the first sentence should be "If the Trigger frame is a GCR MU-BAR variant, the Trigger Dependent Common Info field is defined in Figure 9-52j (Trigger Dependent Common Info field for the GCR MU-BAR variant) and the Trigger Dependent User Info field is not present.".	As in comment.	2017/1/9 9:42
8031	Massinissa Lalam	225	1 9.3.1.23.7	51	60	E	Y	51.60 9.3.1.23.7	For consistency with previous trigger frame variants description, the first three sentences of this subclause could be replaced with "If the Trigger frame is a Bandwidth Query Report Poll (BQRP) variant, the Trigger Dependent Common Info field is not present and the Trigger Dependent User Info field is not present.".	As in comment.	2017/1/9 9:42
8032	Massinissa Lalam	225	1 9.3.1.23.7	52	5	E	Y	52.05 9.3.1.23.7	Replace "The CS Required subfield is set to 1." with "The CS Required subfield of the Common Info field is set to 1."	As in comment.	2017/1/9 9:42
8033	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the RAPS (Random Access Parameter Set) acronym to the subclause 3.4	As in comment.	2017/1/9 9:42
8034	Massinissa Lalam	225	1 9.3.3.11	55	24	E	N	55.24 9.3.3.11	In Table 9-34, check the horizontal line width between row 95 and 96, It should be thinner.	As in comment.	2017/1/9 9:42
8035	Massinissa Lalam	225	1 9.4.1.62	56	9	E	N	56.09 9.4.1.62	In Figure 9-121a, consider spliting the row (B0-B39) in two rows (e.g. B0-B11, and B12-B39) to avoid overlapping and stick within the page margins.	As in comment.	2017/1/9 9:42

8036	Massinissa Lalam	225	1 9.4.1.62	57	21	T	Y	57.21 9.4.1.62	In Table 9-76a, the Remaining Feedback Segments description is not clear. In particular the way the split is done between 1 and 6 and 1 and 7 for the remaining feedback segments of a segmented reports. It is clear that for the last feedback segment (or unsegmented feedback) this subfield will have the value 0. However, for the first feedback fragment in case of segmented feedback, the only possible value to be set is 7 since this precision ("Set to a value between 1 and 6 for a feedback segment that is neither the first nor the last of a segmented report.") forbids other values. Please clarify the description as it is confusing right now.	As in comment.	2017/1/9 9:42
8037	Massinissa Lalam	225	1 9.4.1.62	57	51	T	Y	57.51 9.4.1.62	What does the sentence "In an HE Compressed Beamforming frame not carrying all or part of an HE Compressed Beamforming report" means? In such case, what information does the HE Compressed Beamforming report carry? Please clarify the use case when this can happen or reference it to a correct subclause in the Draft if this 0 information feedback transmission use case is already covered.	As in comment.	2017/1/9 9:42
8038	Massinissa Lalam	225	1 9.4.2.218.2	77	22	E	Y	77.22 9.4.2.218.2	In Table 9-262z describing the HE MAC capabilities, some times "HE STA", " is used, some times only "STA". Since this table only addresses HE-capable device, I don't think that it is necessary to add "HE". Anyway please uniform the table by consistently using eilher {"HE STA", "HE non-AP STA", "HE AP"} or {"STA", "non-AP STA", "AP}.	As in comment.	2017/1/9 9:42
8039	Massinissa Lalam	225	1 9.4.2.218.2	78	78	E	N	78.78 9.4.2.218.2	In Table 9-262z, use a consistent definition for the support of a specific Control ID subfield value in an HE variant HT Control field. For instance the definition associated to the support of Control ID = 0 (UL MU response scheduling,pg78,ln43), Control ID = 2 (HE Link adaptation, pg78,ln27) and Control ID = 3 (Buffer Status Report,pg78,ln49) do not follow the same format. I would prefer to stick with something equivalent to the first definition format provided for HE link adaptation support, i.e, "Indicates whether the STA supports <Control ID Meaning from Table 9-18a> using the HE variant HT Control field". This gives - For HE Link Adaptation Capable pg78,ln27: "Indicates whether the STA supports HE link adaptation using the HE variant HT Control field." - For UL MU Response Scheduling Support,pg78,ln43: "Indicates whether the non-AP STA supports UL MU response	As in comment.	2017/1/9 9:42
8040	Massinissa Lalam	225	1 9.4.2.218.2	79	28	E	N	79.28 9.4.2.218.2	Consider replacing "OMI A-Control Support" with "A-OMI Support" to stay consistent with "A-BSR Support" and "A-BQR Support" subfields	As in comment.	2017/1/9 9:42
8041	Massinissa Lalam	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2	In Table 9-262z, the row for "Maximum AMPDU Length Exponent" is empty. Please fill it.	As in comment.	2017/1/9 9:42
8042	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the QTP acronym in subclause 3.4	As in comment.	2017/1/9 9:42
8043	Massinissa Lalam	225	1 9.4.2.220	93	60	E	Y	93.60 9.4.2.220	Replace "EOCW_max" with "EOCWmax"	As in comment.	2017/1/9 9:42
8044	Massinissa Lalam	225	1 9.4.2.224	96	38	E	Y	96.38 9.4.2.224	In Figure 9-589da, replace "Vender" with "Vendor".	As in comment.	2017/1/9 9:42

8045	Massinissa Lalam	225	1 9.4.2.225	97	16	E	Y	97.16 9.4.2.225	In Figure 9-589db, replace "Vender" with "Vendor".	As in comment.	2017/1/9 9:42
8046	Massinissa Lalam	225	1 27.2.1	149		E	Y	149.00 27.2.1	Please terminate sentences with a point(.) when one is missing. Many bullet points in this subclause are not correctly terminated.	As in comment.	2017/1/9 9:42
8047	Massinissa Lalam	225	1 27.2.1	150	16	E	Y	150.16 27.2.1	Delete extra space added after before the point (.) in the sentence "If the received frame satisfies both intra-BSS and inter-BSS conditions, the decision made by using the MAC address takes precedence over the decision made by using the RXVECTOR parameter BSS_COLOR .".	As in comment.	2017/1/9 9:42
8048	Massinissa Lalam	225	1 27.2.2	150		E	Y	150.00 27.2.2	Please terminate sentences with a point(.) when one is missing. Many bullet points in this subclause are not correctly terminated.	As in comment.	2017/1/9 9:42
8049	Massinissa Lalam	225	1 27.3.4.1	155	21	E	Y	155.21 27.3.4.1	Replace "Set to 3 if the STA supports reception of dynamic fragments following the procedure defined in 227.3.3.4 (Level 3 dynamic fragmentation)" with "Set to 3 if the STA supports reception of dynamic fragments following the procedure defined in 27.3.3.4 (Level 3 dynamic fragmentation)"	As in comment.	2017/1/9 9:42
8050	Massinissa Lalam	225	1 27.4.1	157	36	T	Y	157.36 27.4.1	I was under the impression that only an HE AP is the recipient of an HE trigger-based PPDU, meaning that "An HE STA may send a Multi-STA BlockAck frame in response to an HE trigger-based PPDU." should be replaced by "An HE AP may send a Multi-STA BlockAck frame in response to an HE trigger-based PPDU."	As in comment.	2017/1/9 9:42
8051	Massinissa Lalam	225	1 27.4.1	157	28	E	Y	157.28 27.4.1	Delete sentence "An HE non-AP STA that sends a Multi-STA BlockAck frame shall set the AID subfield in the Per STA Info field of the Multi-STA BlockAck frame to 0 and the RA field to the BSSID when the intended receiver of the frame is the AP." and add the sentence after "An HE non-AP STA shall transmit a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields and shall set the RA field to the address of the recipient STA that requested the Block Ack frame. In case the intended recipient STA is the AP the HE non-AP STA is associated to, the AID is set to 0 and the RA field is set to the BSSID of the AP."	As in comment.	2017/1/9 9:42
8052	Massinissa Lalam	225	1 27.4.1	157	48	E	Y	157.48 27.4.1	Replace "An HE STA that supports Multi-STA BlockAck shall examine each received Multi-STA sent by an STA ..." with "An HE STA that supports Multi-STA BlockAck shall examine each received Multi-STA BlockAck frames sent by an STA ...", otherwise define what a "Multi-STA" is.	As in comment.	2017/1/9 9:42
8053	Massinissa Lalam	225	1 27.5.1.1	162	58	T	Y	162.58 27.5.1.1	There is no "DL OFDMA With MIMO Support" field defined in the HE Capabilities element subclause 9.4.2.218. Either add this field if missing or refer to the correct one(s). So far the intent of the sentence is not really clear for me to decide to which already existing fields of the HE Capabilities element to refer. Does the sentence refer to a DL OFDMA transmission plus DL MU-MIMO on some RUs, or just DL OFDMA with more than one spatial streams on some RUs?	As in comment.	2017/1/9 9:42

8054	Massinissa Lalam	225	1 27			G	N	27	On the whole clause, "HE STA", "HE non-AP STA", "HE AP", "STA", "non-AP STA", "AP" are used. Since this clause only applies to HE STA, should we drop the "HE" prefix or should we ensure that it is always present?	Use either "HE STA", "HE non-AP STA", "HE AP" or "STA", "non-AP STA", "AP" on the whole clause.	2017/1/9 9:42
8055	Massinissa Lalam	225	1 28			G	N	28	On the whole clause, "HE STA", "HE non-AP STA", "HE AP", "STA", "non-AP STA", "AP" are used. Since this clause only applies to HE STA, should we drop the "HE" prefix or should we ensure that it is always present?	Use either "HE STA", "HE non-AP STA", "HE AP" or "STA", "non-AP STA", "AP" on the whole clause.	2017/1/9 9:42
8056	Massinissa Lalam	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	Remove the extra point(.) in "For recipient STAs that are associated with the AP, the User Info field is addressed to a recipient STA if the value of the AID12 subfield of the User Info field is equal to the AID of the STA or to 0 (indicating a random access allocation).."	As in comment.	2017/1/9 9:42
8057	Massinissa Lalam	225	1 27.5.2.2.2	166	22	T	Y	166.22 27.5.2.2.2	In "Spatial Reuse is set to SR_Disallowed", the value "SR_Disallowed" is not defined. Please add a definition or clearly state that "Spatial Reuse is set to 0 (SR disallow)" if same meaning as Table 28-19 is meant.	As in comment.	2017/1/9 9:42
8058	Massinissa Lalam	225	1 27.5.2.2.3	167	34	T	N	167.34 27.5.2.2.3	The sentence "An AP may use any AC for sending a PPDU that contains only Trigger frames." allows an AP to use the voice AC to "preempt" the medium, event if it knows, through reporting for instance, that the addressed STAs only have background traffic to transmit. In my opinion, we should at least recommend for data traffic that if the AP knows the AC categories of the buffered traffic of the addressed STAs, it should use the lowest AC reported for sending a PPDU that contains such Trigger frame.	As in comment.	2017/1/9 9:42
8059	Massinissa Lalam	225	1 27.5.2.3	167	65	E	Y	167.65 27.5.2.3	"– Otherwise, a STA shall not send an HE trigger-based PPDU" should not be a bullet point. Remove the sentence from the bullet list.	As in comment.	2017/1/9 9:42
8060	Massinissa Lalam	225	1 27.5.2.3	169	18	T	Y	169.18 27.5.2.3	In "– SPATIAL_REUSE shall be set to the value indicating SR_Disallowed", the parameter "SR_Disallowed" is not defined in the Draft. please define it or rephrase if based on Table Table 28-19, e.g. ""– SPATIAL_REUSE shall be set to 0 (SR disallow)".	As in comment.	2017/1/9 9:42
8061	Massinissa Lalam	225	1 27.5.2.4	170	26	T	Y	170.26 27.5.2.4	From the text, it seems that a STA that is solliciteb by a trigger frame for an UL transmission will not consider a NAV set by intra-BSS, i.e. by a STA from the same BSS ... is it really the wanted behavior? If so, then "If one or both of the NAVs are considered and the considered NAV's counter is nonzero" only refers to the inter-BSS NAV and should be rephrased accordingly.	As in comment.	2017/1/9 9:42
8062	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the RA (Random Access) acronym in subclause 3.4	As in comment.	2017/1/9 9:42
8063	Massinissa Lalam	225	1 27.5.2.6.1	172	28	E	Y	172.28 27.5.2.6.1	Replace "A STA shall set the UL OFDMA RA Support subfield in the HE Capabilities element to 1 if it supports UL OFDMA-based random access and set it 0, otherwise." with "A STA shall set the UL OFDMA RA Support subfield in the HE Capabilities element to 1 if it supports UL OFDMA-based random access and set it to 0, otherwise.".	As in comment.	2017/1/9 9:42

8064	Massinissa Lalam	225	1 27.5.2.6.2	173	45	E	Y	173.45 27.5.2.6.2	Separate the two sentences by adding a point(.) followed by a blank space. Ie replace "For an HE STA, if the OBO counter is 0 or if the OBO counter decrements to 0, then the STA randomly selects one of the RUs assigned to AID value 0If ..." with ""For an HE STA, if the OBO counter is 0 or if the OBO counter decrements to 0, then the STA randomly selects one of the RUs assigned to AID value 0. If ..."	As in comment.		2017/1/9 9:42
8065	Massinissa Lalam	225	1 27.5.2.6.3	174	12	E	Y	174.12 27.5.2.6.3	Delete the sentence "This subclause defines the retransmission procedure that a STA may follow using random access." as it brings no additional information not already conveyed.	As in comment.		2017/1/9 9:42
8066	Massinissa Lalam	225	1 27.6.4	179	28	T	Y	179.28 27.6.4	In "-- SPATIAL_REUSE set to SR disallowed", what is "SR disallowed"? Please define it or rephrase if based on Table Table 28-19, e.g. "-- SPATIAL_REUSE set to 0 (SR disallow)".	As in comment.		2017/1/9 9:42
8067	Massinissa Lalam	225	1 27.7.1	180	180	T	Y	181.80 27.7.1	I'm still missing the technical contributions which demonstrate the benefit of having the TWT operation mandatory at an HE AP in a dense deployment context (using the agreed 11ax simulation scenarios for instance). So far, I do not have any technical evidence of why "An HE AP shall set the TWT Responder Support subfields of the Extended Capabilities element and HE Capabilities element to 1.". Please delete this sentence or give sufficient justification of why it should be this way.	As in comment.		2017/1/9 9:42
8068	Massinissa Lalam	225	1 27.9.1	190	11	T	Y	190.11 27.9.1	An "SR PPDU" is not defined in the draft. Please consider replacing "When the conditions specified in 27.9 (Spatial reuse operation) are met that allow the transmission of an SR PPDU, an HE STA may transmit an SR PPDU to either an HE STA or a non-HE STA." with "When the conditions specified in 27.9 (Spatial reuse operation) are met that allow the transmission of a PPDU, an HE STA may transmit this PPDU, defined as Spatial Reuse (SR) PPDU, to either an HE STA or a non-HE STA."	As in comment.		2017/1/9 9:42
8069	Massinissa Lalam	225	1 27.9.2.1	190		T	Y	190.00 27.9.2.1	"SR_Delay" and "SR_Restricted" values are not defined in this subclause. Please define them.	As in comment.		2017/1/9 9:42
8070	Massinissa Lalam	225	1 27.9.2.1	190	50	E	Y	190.50 27.9.2.1	"SR Backoff procedure for SR delayed case." seems out of place. Is it a new subclause? Is so, create the corresponding subclause (and adjust the subsequent subclause numbers).	As in comment.		2017/1/9 9:42
8071	Massinissa Lalam	225	1 27.9.2.2	191		E	N	191.00 27.9.2.2	Quality of Figure 27-6 should really be improved.	As in comment.		2017/1/9 9:42
8072	Massinissa Lalam	225	1 27.9.2.2	191		T	Y	191.00 27.9.2.2	Shouldn't TXPWRref be dependent from the band (even the channel based on the local regulation)? please clarify if it is the case or not.	As in comment.		2017/1/9 9:42
8073	Massinissa Lalam	225	1 27.9.2.2	191		T	Y	191.00 27.9.2.2	While obvious, I think that it should be stated that OBSS_PDmin is lower or equal to OBSS_PDmax.	As in comment.		2017/1/9 9:42
8074	Massinissa Lalam	225	1 27.9.2.2	192	19	T	Y	192.19 27.9.2.2	What is an "including UL TB PPDU" ? I think that "HE trigger-based PPDU" is what is meant.	As in comment.		2017/1/9 9:42
8075	Massinissa Lalam	225	1 27.14.2	200		E	Y	200.00 27.14.2	Increase the size of Figure 27-7. It is barely readable.	As in comment.		2017/1/9 9:42
8076	Massinissa Lalam	225	1 3.4	7		E	Y	7.00 3.4	Please consider adding the QTP (Quiet Time Period) acronym in subclause 3.4	As in comment.		2017/1/9 9:42

8077	Massinissa Lalam	225	1 28.3.3.1	228	17	E	Y	228.17 28.3.3.1	Wrong reference. Replace "Table 28-15 (CH_BANDWIDTH and for pre-HE modulated fields)" with "Figure 28-1--Illustration of OFDM and OFDMA concepts".	As in comment.	2017/1/9 9:42
8078	Massinissa Lalam	225	1 28.3.3.2	229	14	T	Y	229.14 28.3.3.2	How is the AP "advised" ? This requirement should be mandatory in my opinion with something like "NOTE--If a HE non-AP STA does not respond with a 26-tone RU in HE trigger-based PPDU in a DFS channel, then AP shall trigger with no less than 52-tone RU for the same HE non-AP STA in the next HE trigger-based PPDU transmission."	As in comment.	2017/1/9 9:42
8079	Massinissa Lalam	225	1 28.3.10.7.2	275	33	T	Y	275.33 28.3.10.7.2	In Table 28-16, the "Doppler mode" is not defined in the standard. Please add a definition and to what does it correspond?	As in comment.	2017/1/9 9:42
8080	Massinissa Lalam	225	1 28.3.10.7.4	285		E	Y	285.00 28.3.10.7.4	In Figure 28-19, lots of "HE-SIG-" fields are present, please adjust the box size for a complete viewing of the fileds.	As in comment.	2017/1/9 9:42
8081	Massinissa Lalam	225	1 28.3.11.9	325		E	Y	325.00 28.3.11.9	The bits mapped for each 1024-QAM symbol are barely readable. Consider increasing the size for each quadrant (Figure 28-30 to 33).	As in comment.	2017/1/9 9:42
8082	Massinissa Lalam	225	1 B	407		E	Y	407.00 B	In Annex B "HEW" is still used, while it has been decided at the begining of TGax to go with "HE" instead. Please replace "High Efficiency WLAN (HEW) operation" with "High Efficiency (HE) operation" for consistency with the other clauses. Also replaced any "HEW" found in this annex with "HE".	As in comment.	2017/1/9 9:42
8083	Matthew Fischer	225	1 9.4.2.218.2	76	31	T	Y	76.31 9.4.2.218.2	TWT support bits exist in both HE CAP IE and Ext CAP IE - the bits only need to appear in one location	Eliminate the TWT support bits from the HE CAP IE while keeping those in the EXT CAP IE. Adjust references appropriately.	2017/1/9 9:42
8084	Matthew Fischer	225	1 10.43.1	139	9	T	Y	139.09 10.43.1	It feels like the TWT request command could appear in the initiating box as well for this row	Change "Demand TWT" to "Request or Demand TWT"	2017/1/9 9:42
8085	Matthew Fischer	225	1 27.8.3	189	39	T	Y	189.39 27.8.3	Language is not quite correct	Change "all variants" to "any variant"	2017/1/9 9:42
8086	Matthew Fischer	225	1 27.7.3.3	185	42	T	Y	185.42 27.7.3.3	The language here is a bit unclear - in particular, pay attention to the "shall" clause and the associated modifier "which the STA intends". A TWT scheduled STA that is in PS mode may go to doze state after receiving the Beacon frame and shall be in the awake state at a broadcast TWT start time during which the STA intends to exchange frames with the TWT scheduling STA. - the problem here is that the AP cannot predict whether a STA is going to be awake or not, because the AP does not know of the STA's intentions. So this is not helpful language. Either change the shall to a should, or remove the qualifier and require the STA to be awake for all TWT SP associated with a Broadcast TWT that it has joined.	Remove the qualifier or modify it so that the STA is required to be awake for all TWT SP associated with a Broadcast TWT that it has joined. If a STA has not joined the Broadcast TWT with this TWTID, then it does not have to be awake. Also, there will remain the option for a STA to be able to sleep through some BTWT SPs because it can always signal suspend and resume with the TWT Info frames.	2017/1/9 9:42

8087	Matthew Fischer	225	1 27.9	190	1	T	Y	190.01 27.9	SRP is incomplete - need a control on the ACK response to an SR transmission - if the DATA frame was transmitted under SRP conditions, then the ACK should also obey the SRP conditions - but the ACK transmitter needs to know if the DATA frame was transmitted under SRP conditions because for a non-SRP generated DATA frame, the ACK has no conditions, and we do not want to impose new conditions on ACKing that were not in the baseline, except for the new case of a DATA frame sent under SRP conditions	Add a way for an SR transmitter using SRP to indicate to the recipient that its ACK must be conditionalized on SRP conditions - use A-control to tell the recipient that the DATA frame was transmitted under SRP conditions		2017/1/9 9:42
8088	Matthew Fischer	225	1 27.9	190	1	T	Y	190.01 27.9	SRP is incomplete - backoff after meeting SRP conditions is not described - this is needed to avoid multiple STAs accepting an SRP condition and then all transmitting at the same time and creating a collision	Describe the backoff mechanism when SRP condition is met		2017/1/9 9:42
8089	Matthew Fischer	225	1 27.7.3.3	185	57	T	Y	185.57 27.7.3.3	In a couple of places, the wrong term is used - where "responding STA" is mentioned	At L58, change "responding STA" to "scheduled STA" and at L62, change "responding STA" to "scheduling STA" - also the sentence on L62 that begins with "reception of a frame" is a separate paragraph, but it should probably be item 3) in the list of items just above itself		2017/1/9 9:42
8090	Matthew Fischer	225	1 27.7.3.3	185	45	T	Y	185.45 27.7.3.3	If a STA is awake for more than one TWT SP, because either at the start or in the middle of an initial TWT SP, an overlap occurs, then the STA should be required to be awake until all TWT SP in which it participates have terminated. Note the complication here of identifying the particular TWT SP to which a terminanation notice belongs - i.e. if a scheduled STA receives an EOSP, is that valid or all TWT SP in which it participates, or is it only valid for one of them and if so, which one of them?	As one option, add a new paragraph to follow the paragraph that begins at P185L42 and its associated bullet items as follows: A scheduled STA that participates in more than one Broadcast TWT SP shall remain in the wake state during any time that is part of any of the TWT SP in which it participates unless a termination has occured for each of the TWT SPs that is currently active. Or maybe: A scheduled STA that participates in more than one Broadcast TWT SP may switch to doze state only when a termination event has occured for all currently acitve TWT SPs in which it participates.		2017/1/9 9:42
8091	Matthew Fischer	225	1 27.9.2.1	190	39	T	Y	190.39 27.9.2.1	What about the ACK that is transmitted in response to the SR PPDU? Does it have to obey any OBSS_PD transmit power rules?	Add a restriction on the tx power of the response transmitter, such that the tx power has to be limited to whatever tx power is "in force" where "in force" means that if a STA has discarded an OBSS PPDU using OBSS_PD and is counting backoff before transmitting an SR PPDU, then that tx power is "in force" for the duration of the OBSS PPDU that was discarded and if a reception occurs before the backoff countdown expires, then the response to that reception is restricted in its transmit power.		2017/1/9 9:42

8092	Matthew Fischer	225	1 27.9.1	190	3	T	Y	190.03 27.9.1	What about the response transmission to a PPDU that was transmitted due to a spatial reuse opportunity? That response transmission should be restricted, such that it too, must ensure that it will not interfere with an ongoing exchange, using whatever SR technique is avilable at the response transmitter STA, with a preference for SRP if enabled and a fallback to OBSS_PD if SRP is not enabled. Since a normal response is allowed to ignore all CCA indications, the responder needs to be able to tell the difference between a normal eliciting PPDU/MPDU and one an eliciting PPDU that was transmitted using SR of some sort.	Provide an indication within MPDUs of whether the MPDU was transmitted during an SR opportunity or not, and add a restriction on the response transmission to that SR PPDU transmission such that the response must examine the medium condition before responding and obey transmit power restrictions that might be in force due to ongoing SR conditions, e.g. OBSS_PD based transmit power restriction. Expect a submission that details such changes.		2017/1/9 9:42
8093	Matthew Fischer	225	1 28.3.10.7.2	273	29	T	Y	273.29 28.3.10.7.2	The UL/DL bit is set according to the UPLINK_FLAG parameter of the TXVECTOR - shouldn't the language in this subclause mention the TXVECTOR UPLINK_FLAG parameter? I think that this comment applies to a lot of the TXVECTOR values. I have not yet checked the RXVECTOR, but there probably needs to be something done there as well. A quick check of previous amendment PHY subclauses shows that no one has really done it this way, but it does feel like this suggested coupling of the TXVECTOR values and the SIG field values is the way that things should have been done all along.	Reword all of the TX and RX SIG field descriptions so that they are related directly to TXVECTOR and RXVECTOR items, where appropriate.		2017/1/9 9:42
8094	Matthew Fischer	225	1 27.9	190	1	T	Y	190.01 27.9	The MAC operation of the SRP mechanism is not described.	Provide a description of the MAC protocol for the SRP spatial reuse parameter. Expect a submission detailing a set of proposed changes.		2017/1/9 9:42
8095	Matthew Fischer	225	1 10.3.2.8a.2	117	5	T	Y	117.05 10.3.2.8a.2	There might be more than one recipient of an MU-RTS.	Change "sent by the receipient of the MU-RTS frame" to "sent by any recipient of the MU-RTS frame"		2017/1/9 9:42
8096	Matthew Fischer	225	1 10.3.2.8a.2	117	10	T	Y	117.10 10.3.2.8a.2	Why is the MU-RTS not allowed to be sent in an HE PPDU? There is no sense to having such a restriction.	Remove the cited line which disallows MU-RTS from being sent using an HE PPDU format.		2017/1/9 9:42
8097	Matthew Fischer	225	1 27.7.2	180	26	T	Y	180.26 27.7.2	The TWT negotiation process can be improved. Specifically, if a timeslot bitmap were added to the process then a STA could more concisely indicate its preferred TWT SP times and it could observe the allocated TWT SP times of OBSS neighbors and request time slots that avoid those times.	Add a time slot bitmap to allow simpler negotation of TWT SP times and to allow a simple method of determining when OBSS interference is more likely. Expect a submission detailing some changes.		2017/1/9 9:42
8098	Matthew Fischer	225	1 27	149	5	T	Y	149.05 27	Add a mechanism to set the transmit power per direction per link in order to achieve an increase in performance due to improved receiver design since the original EVM specification was written.	Add a mechanism to set the transmit power per direction per link in order to achieve an increase in performance due to improved receiver design since the original EVM specification was written. Expect a submission detailing some changes.		2017/1/9 9:42
8099	Matthew Fischer	225	1 10.7.6	123	29	T	Y	123.29 10.7.6	Due to power differences and other considerations, a situation can arise when the transmitter of a response frame using the standard required response MCS value is employing an MCS that will not work for the link because of the asymmetry, e.g. tx power asymmetry. Allow a STA to dictate the response PPDU MCS to avoid this problem.	Allow the transmitter of a response eliciting MPDU to include an indication of an appropriate MCS for the response MPDU. Expect a submission detailing some changes.		2017/1/9 9:42

8100	Matthew Fischer	225	1 9.4.1.62	56	10	T	Y	56.10 9.4.1.62	Transmit beamformer is sometimes inclined to modify a steering vector that is fed back by the beamformee, and that is often ok, but sometimes, the beamfomee needs to ensure that the beamformer does not alter the vector - so add a Vector Sanctity indication in the HE MIMO control field and describe its use, i.e. somewhere within 27.6 where TXBF for HE specifics appear	Add a bit "Vector Sanctity" to the HE MIMO Control field and a support bit to indicate support for the bit, and add a description of the use of the bit in 10.32 - also consider expanding its use backwards to VHT - expect a submission with detailed changes		2017/1/9 9:42
8101	Matthew Fischer	225	1 27.9.2	190	14	T	Y	190.14 27.9.2	OBSS_PD effect on secondary channel level sensing has not been described - if the OBSS PD level changes, do the secondary channel thresholds also need to change?	Address the issue of non-primary sensing levels if the OBSS_PD level changes - if there is no relationship with non-primary sensing levels, at least add a note indicating this so that it is explicitly stated somewhere.		2017/1/9 9:42
8102	Matthew Fischer	225	1 27.9.2.1	190	36	T	Y	190.36 27.9.2.1	The sentence here really does not provide any interesting functionality. At the end of the PPDU, the PHY is in a reset state anyway and the medium condition reverts to idle unless ED is active, which really does not matter in this case.	Provide additional text to justify the inclusion of this normative behavioral statement or delete it.		2017/1/9 9:42
8103	Matthew Fischer	225	1 27.9.2	190	14	T	Y	190.14 27.9.2	There is no definitive statement regarding the priority of the SRP condition vs the OBSS_PD condition	Add a normative behavioral statement that indicates that if a STA has enabled SRP and and SRP condition is in effect, then this overrides OBSS_PD conditions.		2017/1/9 9:42
8104	Matthew Fischer	225	1 27.9.2.2	191	3	T	Y	191.03 27.9.2.2	If the OBSS_PD is at a certain level and an OBSS PPDU is discarded based on that level, then is there any requirement of the STA that discarded that PPDU to hold its transmit power at or below the value associated with the OBSS_PD level that it used to discard the PPDU, for the duration of the discarded PPDU?	Add text to clarify any rules regarding holding TX power at a certain level for a duration related to the duration of a discarded PPDU.		2017/1/9 9:42
8105	Matthew Fischer	225	1 27.11.6	198	34	T	Y	198.34 27.11.6	What is the meaning of SR_RESTRICTED? The few references to this value do not make any sense. If the intent was to limit the SR transmission to the duration of the PPDU on top of which the SR transmission occurs, then there should be a general rule.	Remove SR_RESTRICTED and add text that says: SRP transmissions are always restricted to the duration of the discarded/ignored PPDU and OBSS_PD SR transmissions are not restricted in any way.		2017/1/9 9:42
8106	Matthew Fischer	225	1 9.4.2.218.5	90	25	T	Y	90.25 9.4.2.218.5	A minor error in the rules written in the table for PPET8 and PPET16	In table 9-262ad - PPET8 and PPET16 encoding, change "x greater than equal to PPET16" to "x greater than or equal to PPET16"		2017/1/9 9:42
8107	Matthew Fischer	225	1 9.4.2.218.5	90	7	T	Y	90.07 9.4.2.218.5	The text describing a relationship between PPET8 and PPET16 is not quite correct.	Change "The value for each PPET8 for NSSn for RUm is always less than the value of PPET16 for NSSn for RUm." to "The value for each PPET8 for NSSn for RUm is always less than the value of PPET16 for NSSn for Rum, except when PPET8 = 7."		2017/1/9 9:42
8108	Matthew Fischer	225	1 27.7.3.1	182	27	T	Y	182.27 27.7.3.1	Broadcast TWT - a non-AP STA that is participating in Broadcast TWT will wake for TWT SPs and then check trigger frames to see if the STA is identified in a trigger. If there is more than one trigger for an SP, the STA will wake for multiple triggers and by the end of the SP, it is possible that the STA has not been identified and therefore, has wasted power checking each trigger. It would be more efficient for power consumption if the STA had a clue as to whether any trigger in the SP was going to identify it.	Add a TIM of some sort to be associated with each Broadcast TWT so that a participating STA can wake at the beacon and read the TWT-TIM to see if it should be waking for any of the triggers associated with this broadcast TWT within this beacon interval. The TIM could also be included at the start of each TWT SP, say, within a beacon-like frame, e.g. measurement pilot frame or something else.		2017/1/9 9:42

8109	Matthew Fischer	225	1 27.7.4	188	11	T	Y	188.11 27.7.4	TWT Information frame use is supposed to allow changes to Broadcast TWT operation, e.g. suspend, resume, skip, but the TWT Info field TWT ID is 3 bits and the TWT IE Broadcast TWT ID field is 8 bits - is there a 3 bit limit on the ID values for broadcast TWT? Even if there were such a limit, the TWT info frame does not distinguish between Broadcast and Individual TWT ID values - one might decide to use the RA of the TWT info frame to identify when the TWT ID is referring to BCAST TWT vs Individual TWT - but none of this is spelled out in the draft.	Either make some explicit rules about the RA and TWT ID field values and a limit on Broadcast TWT ID values in the TWT IE, or add a few bits to the TWT Info field definition to allow differentiation of Broadcast vs Individual TWT in that field		2017/1/9 9:42
8110	Matthew Fischer	225	1 27.5.2.3	169	17	T	Y	169.17 27.5.2.3	There is no language describing what a recipient is required to do or not do when it sees the value SR_DISALLOWED in a received PPDU and of intra or inter-BSS, etc. Such language is required, plus it is unclear whether the value applies to OBSS_PD SR or SRP SR or both. There is no language to differentiate the SR field in the MAC trigger frame common info field vs the PHY SIGA SR field.	Provide language to indicate what a recipient does when SR_DISALLOWED is received in a PPDU - does it apply to OBSS_PD or SRP or both? What about Intra vs Inter-BSS?		2017/1/9 9:42
8111	Matthew Fischer	225	1 27.9.2	190	17	T	Y	190.17 27.9.2	The utility of OBSS PD seems most beneficial to scenarios where the intra-BSS SINRs are generally higher than inter-BSS SINRs. Identifying when a STA is operating within such a scenario would greatly improve the performance of OBSS PD. Add a mechanism to allow a STA to identify when OBSS PD would provide benefit, such as providing a list of OBSSs that meet the condition of inter-BSS SINR << intra-BSS SINR	Define the concept of a spatial reuse group that identifies OBSSs that meet the condition inter-BSS SINR << intra-BSS SINR and provide a means for disseminating this information. Expect a submission		2017/1/9 9:42
8112	Matthew Fischer	225	1 9.3.1.23	44	60	T	Y	44.60 9.3.1.23	The description of the Spatial Reuse field is poorly written. For example, the description does not indicate which portions of a 40, 80 or 160 MHz channel are affected by which pieces of the SR field; The description is unclear about which fields are identical to which fields in the case of 40 and 80 MHz; There is no information about which BW is the BW of reference for the words "For 20 MHz one SR field" etc.; The current descripton talks about "SR field 1", "SR field 2" but nowhere is there a picture or even a sentence defining what these are.	Clarify the problems highlighted in the comment.		2017/1/9 9:42
8113	Matthew Fischer	225	1 9.3.1.9.7	38	35	T	Y	38.35 9.3.1.9.7	There is no explicit language anywhere stating what the allowed responses to UL OFDMA VHT Single are - I assume, without any explicit language, that both ACK and MBA are allowed	Clarify - even if the comment is correct, at least add a note pointing this out to avoid the possibility that an AP responds with ACK and a non-AP STA refuses it.		2017/1/9 9:42
8114	Matthew Fischer	225	1 9.3.1.23	41	36	T	Y	41.36 9.3.1.23	Discontiguous resource allocations are possible, but it is not clear how this is done - does an AP deliver in a trigger, multiple UL user info fields for a single AID to deliver multiple disconfiguous RU s to that STA? Or does it have new encodings that indicate disconfiguous tones? And if multiple RUs are possible, can they be configuous and how does that differ from a single one that spans the same tones as more than one combined? And when a STA has disconfiguous RU allocations, does it treat them as a single allocation for the purpose of interleaving, for example?	Provide clear instructions as to AP and STA behavior when invoking the multiple RU allocation option.		2017/1/9 9:42

8115	Matthew Fischer	225	1 28.3.10.8.5	295	6	T	Y	295.06 28.3.10.8.5	SIG B does not currently specify a means for indicating multiple RU allocations to a single STA.	Specify a means for indicating multiple RU allocations to a single STA within the SIGB, for example, by allowing the AID of a single STA to appear multiple times within the SIGB fields.	2017/1/9 9:42
8116	Matthew Fischer	225	1 28.3.3.2	229	1	T	Y	229.01 28.3.3.2	Add a PHY mode to support the transmission and reception of a preamble punctured non-HT DUP	As stated in the comment	2017/1/9 9:42
8117	Matthew Fischer	225	1 9.3.1.23	46	10	T	Y	46.10 9.3.1.23	non-HT format response to a trigger frame (e.g. CTS in response to MU-RTS) currently uses RU allocation information from the trigger that is aligned with HE tone mapping, but the CTS in non-HT format does not use HE tone mapping. Add some language in the draft that instructs the MU-RTS transmitter as to what tones to specify in order to generate the correct CTS response on the correct tone plan, and also language for the trigger recipient to ensure that the correct transmission is elicited.	As stated in the comment	2017/1/9 9:42
8118	Matthew Fischer	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	The Spatial Reuse field says that there are values SR_DISALLOWED and SR_DELAY and 14 other values and points to 27.9.2.1 General (within OBSS_PD Spatial Reuse) and to what should be 27.11.6 Setting TXVECTOR parameters for an HE PPDU SPATIAL_REUSE - but the table 28-19 Spatial Reuse subfield encoding indicates only SR_DISALLOW, 14 numerical values and one reserved value. The table and the text in the various subclauses need to be reconciled.	As stated in the comment	2017/1/9 9:42
8119	Matthew Fischer	225	1 9.4.2.218.2	76	47	T	Y	76.47 9.4.2.218.2	B24 Group Addressed Multi-STA BlockAck In DL MU Support is indicated as being 4 bits in width, but it is probably only 1 bit in width	Change width of 4 bits to width of 1 bits in the diagram for the MAC Capabilities field for B24	2017/1/9 9:42
8120	Matthew Fischer	225	1 9.4.2.218.2	78	13	T	Y	78.13 9.4.2.218.2	Multi-TID aggregation support - this bit is not well described - is this the number of TIDs that the STA supports on the receive side? If so, state it explicitly.	Indicate that the level of Multi-TID support signaled is on the receive side.	2017/1/9 9:42
8121	Matthew Fischer	225	1 9.4.2.218.2	83	34	T	Y	83.34 9.4.2.218.2	Within more than one row in the "encoding" column of the table for MAC Capabilities, there are multiple statements of "if supported" and the implied reference of the implied "what" is the information in the second column, but the second column in many instances describes multiple different features that are optionally supported, so confusion is quite possible as to which bit indicates what - sure, the bit numbers appear in both columns to allow some sort of association, but really, this is pretty lazy wording. You only have to write the information out once and then it is done for all future revisions. Just write out what must be supported for each of these bits explicitly in the third column.	As stated in the comment	2017/1/9 9:42

8122	Matthew Fischer	225	1 27.4.3	159	45	T	Y	159.45 27.4.3	Size of the MBA response bitmap can be chosen by the MBA transmitter without constraint, so the STA that elicits the MBA cannot predict the duration of MBA - this is probably only a problem for SU PPDU eliciting frame because the MU PPDU includes a trigger for response which includes a duration value - maybe also for MU eliciting frame if for example, the MU PPDU has only one response required - e.g. the MU PPDU is to two STA and one STA has noACK MPDUs.	Need to define a way to constrain the MBA response (e.g. the bitmap length in particular) so that DUR times are predictable. Maybe simply include a restriction that the resopnse shall not exceed the DUR field value of the eliciting PPDU. See also 27.4.4.2 DL MU PPDU soliciting an SU PPDU response which probably needs some new language.		2017/1/9 9:42
8123	Matthew Fischer	225	1 9.4.2.200	70	3	T	Y	70.03 9.4.2.200	The following text was not updated when the table of TWT commands and responses was updated for broadcast TWT negotiation: "The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA." Missing definition for requesting and responding STA cases.	Delete the cited line and change "The Wake TBTT Negotiation subfield indicates that the scheduled STA transmitting the TWT element is indicating a value for the next wake TBTT for a broadcast TWT" to "The Wake TBTT Negotiation subfield indicates that a scheduled STA transmitting the TWT element is indicating a requested value for the next wake TBTT for a broadcast TWT and a scheduling STA transmitting the element is indicating the next wake TBTT for the broadcast TWT. The Wake TBTT Negotiation subfield is set to 0 by TWT Requesting and TWT Responding STAs."		2017/1/9 9:42
8124	Matthew Fischer	225	1 9.4.2.200	69	36	T	Y	69.36 9.4.2.200	figure 9-589av was not correctly updated to reflect changes made during CR that created D1.0 - Broadcast TWT changes allow a value of 2 octets for the Target Wake Time field, and this is not reflected in the TWT element diagram (9-589av) octet count label for the field	Change the number of octets in the figure for the Target Wake Time field to be 8 or 2 or 0.		2017/1/9 9:42
8125	Matthew Fischer	225	1 27.7.3.4	186	44	T	Y	186.44 27.7.3.4	Description is missing for value of Target Wake Time field	Add another bullet item as follows: "The value requested for the next wake TBTT in the Target Wake Time field" Also change the text on P69		2017/1/9 9:42
8126	Matthew Fischer	225	1 27.7.3.4	186	54	T	Y	186.54 27.7.3.4	Is it really the wake TBTT or is it the next broadcast TWT SP start time?	Clarify, possibly changing the text as suggested by the comment.		2017/1/9 9:42
8127	Matthew Fischer	225	1 9.4.2.200	70	34	T	Y	70.34 9.4.2.200	The table entry for the first row for column wake tbtt negotiation is NA, but at P139 the text says that this box should not have NA value - also see P186L40 which does not mention REQUEST	Make a decision - either do or do not allow request command by scheduled STA for Broadcast TWT - fix the different references so that they do not conflict.		2017/1/9 9:42
8128	Matthew Fischer	225	1 9.4.2.200	69	59	T	Y	69.59 9.4.2.200	Can a non-AP STA send more than one broadcast TWT parameter set in a TWT IE, for example, if it wants to join more than one broadcast TWT?	Clarify and add explicit language with the answer		2017/1/9 9:42
8129	Matthew Fischer	225	1 10.43.1	137	56	T	Y	137.56 10.43.1	Table 10-19a does not include any case where the scheduled STA includes Broadcast=1, so is it disallowed, and if so, shouldn't there be an explicit statement somewhere, instead of this implicit one	Clarify and add explicit language with the answer		2017/1/9 9:42
8130	Matthew Fischer	225	1 27.7.3.2	184	54	T	Y	184.54 27.7.3.2	The exact meanings of some of the fields in the TWT element are not well described when comparing the cases of Broadcast TWT negotiation vs Broadcast TWT SP announcement.	Clarify the difference between a TWT element that is part of a broadcast TWT negotiation vs a Broadcast TWT announcement, probably need to emphasize the difference in the RA of the MPDU that contains the element plus point out the difference in the meaning of the TWT Wake Interval field for the two cases. (I.e. the TWT Wake Interval is used during negotiation to identify non-AP STA wake times and it is used during Broadcast TWT announcements to indicate the separation between successive Broadcast TWT SP start times.		2017/1/9 9:42

8131	Matthew Fischer	225	1 9.4.2.200	70	34	T	Y	70.34 9.4.2.200	Too many of the entries for column "Description when transmitted by a TWT scheduling STA, Wake TBTT Negotiation subfield = 1" have "NA" - according to Table 10-19a--TWT setup exchange command interpretation, there should be more entries with something other than NA here.	Reconcile the table in 9.4.2.200 TWT element with Table 10-19a--TWT setup exchange command interpretation - noting that Table 10-19a is the more correct one.	2017/1/9 9:42
8132	Matthew Fischer	225	1 27.7.3.2	184	38	T	Y	184.38 27.7.3.2	Table reference is incorrect	Change 9-248l1 to 9.262kl maybe?	2017/1/9 9:42
8133	Matthew Fischer	225	1 9.2.4.6.4.5	26	15	T	Y	26.15 9.2.4.6.4.5	Wrong acronym - AC should be ACI	change AC Bitmap subfield to ACI Bitmap subfield	2017/1/9 9:42
8134	Matthew Fischer	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	There are two differing descriptions of the meaning of the value 0 for BSS color - merge them or delete one or somehow reconcile them.	There are two differing descriptions of the meaning of the value 0 for BSS color - merge them or delete one or somehow reconcile them.	2017/1/9 9:42
8135	Matthew Fischer	225	1 27.10.4	193	58	T	Y	193.58 27.10.4	How does the recipient know whether the received PPDU was a multi-TID AMPDU or a single TID AMPDU? If some of the delimiters are bad, the recipient could mistake a multi-TID AMPDU for a single AMPDU.	Make the response always the same - i.e. it is always an MBA, even if the recipient thinks it was a single TID AMPDU.	2017/1/9 9:42
8136	Matthew Fischer	225	1 27.10.4	193	50	T	Y	193.50 27.10.4	The use of the word "solicits" here is interesting, because a few lines later, it says that the response shall be MBA, so is it really soliciting an immediate ACK, or is it soliciting an MBA? Does it depend on what the contents of the AMPDU were? i.e. single VHT vs Multi-TID, etc?	Make the language consistent.	2017/1/9 9:42
8137	Matthew Fischer	225	1 9.4.2.27	68	23	T	Y	68.23 9.4.2.27	There are good reasons to allow unsolicited TXBF FB.	Add a capability bit that indicates that an AP supports the receipt of unsolicited FB.	2017/1/9 9:42
8138	Matthew Fischer	225	1 9.7	105	50	T	Y	105.50 9.7	Is there a rule that says that the presence or absence of optional MAC header fields must be consistent within a TID within an AMPDU? How about across TIDs?	Clarify.	2017/1/9 9:42
8139	Matthew Fischer	225	1 10.3.2.4	114	48	T	Y	114.48 10.3.2.4	Referring to: If the STA is not an HE STA and the received frame's RA is equal to the STA's own MAC address, the STA shall not update its NAV. If the STA is an HE STA and the STA is solicited for an immediate response by the PPDU carrying the received frame, the STA shall not update its NAV. If the STA is an HE STA, the STA is a TXOP holder, and the frame is solicited by the STA, then the STA shall not update its NAV. Further, when the received frame is a DMG CTS frame and its TA is equal to the STA's own MAC address, the STA shall not update its NAV. For all other received frames the STA shall update its NAV when the received Duration is greater than the STA's current NAV value. Consider the case: The receiving STA is an HE STA and the RA matches the	Not certain	2017/1/9 9:42
8140	Matthew Fischer	225	1 27.5.2.2.1	164	47	T	Y	164.47 27.5.2.2.1	Random Access UL OFDMA for unassociated STAs is mentioned here, but how does such a STA recognize the DL OFDMA response? Such a STA needs some sort of AID value to identify its DL RU allocation - the text refers me to 27.5.2.6 but there is nothing here mentioning what to do for unassociated STA, while over in 27.5.2.3, there is a TBD in a sentence that refers to unassociated STA	Define the rules for unassociated STA operation within UL OFDMA Random Access	2017/1/9 9:42

8141	Matthew Fischer	225	1 27.5.2.6.2	173	1	T	Y	173.01 27.5.2.6.2	A more efficient random access FB mechanism should be defined.	Change to a feedback mechanism that uses an HTF like sequence with small tone allocations mapped to AID values to allow at least binary feedback indication or even multiple bit FB indication (e.g. I have UL data, I request DL data, etc.)	2017/1/9 9:42
8142	Matthew Fischer	225	1 27.5.2.6.2	173	1	T	Y	173.01 27.5.2.6.2	The name here and in many places in the document is just "random access" while in other places it is UL OFDMA random access - the second form is clear and unambiguous, but the first form can be confused with normal EDCA random access or DCF random access and should not be used to avoid such confusion.	Define a new name for the UL OFDMA random access process and use it consistently, an acronym is good because it shortens the language and makes for a very convenient name. How about HORA = HE OFDMA Random Access	2017/1/9 9:42
8143	Matthew Fischer	225	1 27.7.3.1	182	39	T	Y	182.39 27.7.3.1	Currently, a STA that signs up for individual TWT is no longer considered a participant in any broadcast TWT. Think about the possibility of changing this now that a STA can perform an explicit sign up for Broadcast TWT. I.e. before the ability to sign up for BTWT existed, a STA that signed up for iTWT was assumed to no longer participate in bTWT, but if a STA can sign up for bTWT, then there is no reason to not allow it to do so.	Modify the cited sentence to state that a STA that has at least one active iTWT is automatically excluded from all bTWT except for those bTWT for which the STA explicitly signs up to participate. Also note that if the STA reverts to no iTWT any longer, then it is again automatically assumed to participate in all broadcast TWT - or maybe, if it has signed up for at least one bTWT, then it forsakes all others not explicitly signed up for which it is	2017/1/9 9:42
8144	Matthew Fischer	225	1 9.42.200	59	36	T	Y	59.36 9.42.200	The TWT Channel should be 0 or 1 because for bTWT, the TWT channel is not present	Change the TWT Channel octet count in figure 9-589av TWT element format to read "0 or 1" instead of "1"	2017/1/9 9:42
8145	Matthew Fischer	225	1 27.7.3.4	187	8	T	Y	187.08 27.7.3.4	The teardown process is a bit difficult for bTWT - theTWT teardown action frame contains a flow identifier field which is currently defined as having only 3 bits, but bTWT can have an ID of up to 8 bits in the TWT IE	Either limit the bTWT ID field to 7 bits and in the flow id field of the twt teardown action frame use one bit of the flow field as a broadcast identifier OR do not use the teardown procedure for bTWT teardown, but instead, use command reject in either direction	2017/1/9 9:42
8146	Michael Montemurro	225	1 10.3.2.4	114	65	T	Y	114.65 10.3.2.4	What does "is not all 1s" mean? I assume you mean all bits in the field are "not all set to 1".	Reword the condition to be more precise. For instance, you could say if all bits included in the field are not set to 1.	2017/1/9 9:42
8147	Michael Montemurro	225	1 10.9	127	19	T	Y	127.19 10.9	What does it mean to "expects an HE trigger-based"	Re-word the condition to be more precise.	2017/1/9 9:42
8148	Michael Montemurro	225	1 27.2.2	151	10	T	Y	151.10 27.2.2	What does "is not all 1s" mean? I assume you mean all bits in the field are "not all set to 1".	Reword the condition to be more precise. For instance, you could say if all bits included in the field are not set to 1. Same issue with 151.26 (and potentially other areas).	2017/1/9 9:42
8149	Michael Montemurro	225	1 27.3.3.1	153	13	T	Y	153.13 27.3.3.1	Could there be a brief description on the differences between Level 1,2, and 3, dynamic fragmentation in the "General " clause?	Give the reader some additional information that describes why there are three levels of fragmenation and what distiguishes each level.	2017/1/9 9:42
8150	Michael Montemurro	225	1 27.4.1	158	10	T	Y	158.10 27.4.1	"If an HE AP does not receive an HE Capabilities element with the Rx Control Frame To MultiBSS set to 1 from a STA," doesn't make sense.	Change "To MultieBSS" to "To MultiBSS bit" at cited location and 158.17.	2017/1/9 9:42
8151	Michael Montemurro	225	1 27.5.2.3	167	42	T	Y	167.42 27.5.2.3	"STA behavior" doesn't provide much context for this subclause. Is it really TX rules?	Update the title of the clause to be something more specicic than "STA behavior"	2017/1/9 9:42
8152	Michael Montemurro	225	1 27.5.2.6.2	173	25	T	Y	173.25 27.5.2.6.2	The overall procedure shown in Figure 27-1 is not really described very well. Its not clear to the reader.	Add an explanation in the paragraphe that introduces Figure 27-1	2017/1/9 9:42
8153	Michael Montemurro	225	1 27.7.3.1	183	25	T	Y	183.25 27.7.3.1	The overall procedure shown in Figure 27-5 is not really described very well. Its not clear to the reader.	Add an explanation in the paragraphe that introduces Figure 27-5	2017/1/9 9:42
8154	Michael Montemurro	225	1 27.7.3.4	186	33	T	Y	186.33 27.7.3.4	The use of listen interval in the contect of TWT is ambiguous because there is already a Listen Interval field defined in the IEEE 802.11 base standard.	Reword the TWT procedure descriptions to use alternaive wording for "listen interval:	2017/1/9 9:42
8155	Ming Gan	225	1 28.3.10.8.4	293	8	T	Y	293.08 28.3.10.8.4	y2y1y0 is not only used for 106-tone RU| +but also for 242,484,996-tone RUs.	clarify the explaination of y2y1y0	2017/1/9 9:42

8156	Ming Gan	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	When the unassociated STA receives a trigger frame with random access RU, the behavior of this STA is not defined	Define a precedure of association setup through OFDMA random access	2017/1/9 9:42
8157	Ming Gan	225	1 9.36.1.9.7	38	4	T	Y	38.04 9.36.1.9.7	Now Multi-STA BlockAck can not be used to acknowledge the association request frame because of unassociated STA is not assigned an AID	define a common special AID for all the unassociated STAs such that they can parse the M-BA frame correctly	2017/1/9 9:42
8158	Ming Gan	225	1 27.3.3.4	154	39	T	Y	154.39 27.3.3.4	L3 frag BA request/ response indications are located in block ack action field (see page 99, line 1) , however Level 2 and Level 1 operation subfields are located in ADDBA extension element (see page 68, line 37)	suggest to remove the HE fragmentation operation subfield in the ADDBA capabilities field, and then put level 1 and level 2 indications into the block ack action field.	2017/1/9 9:42
8159	Ming Gan	225	1 9.4.2.218.2	77	38	T	Y	77.38 9.4.2.218.2	Level 2 and level 3 supports to fragment A-MSDU according to the section 27.3	add description for A-MSDU	2017/1/9 9:42
8160	Ming Gan	225	1 27.3.3.4	154	60	T	Y	154.60 27.3.3.4	Level 3 supports to fragment MMPDU, however, there is not description for MMPDU. Actually, it appeared in draft D0.3~D0.5	add the following description at the end of this sentence: and up to one dynamic fragment of an MMPDUin an A-MPDU	2017/1/9 9:42
8161	Ming Gan	225	1 28.3.5	247	44	T	Y	247.44 28.3.5	There is tranemission block diagram for HE downlink MU-MIMO, however, it lacks of transmission block diagram for HE uplink MU-MIMO	It is not clear to transmit Uplink MU-MIMO. Add a transmission block diagram	2017/1/9 9:42
8162	Ming Gan	225	1 9.2.4.6.4.6	29	19	T	Y	29.19 9.2.4.6.4.6	See 26.3.13.2 (Power pre-correction), the reference is wrong	change 26.3.13.2 to 28.3.14.2	2017/1/9 9:42
8163	Ming Gan	225	1 27.10.4	194	45	T	Y	194.45 27.10.4	Only AC of higher priority compared with primary AC is allowed to be aggregated in Multi-TID A-MPDU, however, when the queue of this kind of AC is empty, low priority AC can not help to further improve performance.	Add one rule to allow low priority AC to be aggregated in Multi-TID A-MPDU. Suggestion: when the the queue of AC of higher priority with repsect to primary AC is empty, AC of lower priority with repsect to primary AC can be aggregated in one Multi-TID A-MPDU.	2017/1/9 9:42
8164	Ming Gan	225	1 10.43.1	137	47	E	Y	137.47 10.43.1	Demand TWT indicates tha the transmitting STA will accept only the indicated TWT parameters for a TWT agreeement. One typo on "tha"	correct it to "that"	2017/1/9 9:42
8165	Ming Gan	225	1 9.4.2	67	1	T	Y	67.01 9.4.2	BSS load element provides the channel utilization such that the unassociated STA can choose the proper AP┼ ±ε and extended BSS load element further provides the the spatial stream underutilization given the busy channel such that unassociated STA with MU-MIMO capability can choose the proper AP. Now 11ax introduce a OFDMA, there is the probability of frequence underutilization given the busy channel.	Define a HE BSS load element considering frequency utilization such to help unassociated STA to choose a best AP	2017/1/9 9:42
8166	Ming Gan	225	1 9.3.123.3	50	17	T	Y	50.17 9.3.123.3	MU-BAR frame is not only used for single TID per STA, but also for multiple TIDs per STA. However, it is used for multiple TIDs per STA, there are a lot of redudancy, such as "Per TID info" of 2 bytes in BAR info field. Each TID require one "Per TID info" subfield . Instead, using TID bitmap of 1 byte per STA, not "Per TID info" subfield Per TID Per STA, can save lots of byes. We also see an example of GCR MU-BAR frame, it is separated from MU-BAR frame to save the overhead.	Define a new variant for Multi-TID MU-BAR frame like GCR MU-BAR frame. Using TID bitmap of 1 byte in Multi-TID MU-BAR frame to short the whole frame.	2017/1/9 9:42
8167	Ming Gan	225	1 27.5.1.3	163	23	T	Y	163.23 27.5.1.3	"explicitly deliver BQRs in any frame sent to the AP", what is "any frame". It is not clear. Actually it requires this frame contains A-control field.	change "any frame" to "any frame which contains A-Control field"	2017/1/9 9:42
8168	Ming Gan	225	1 27.5.1.3	163	21	T	Y	163.21 27.5.1.3	"implicitlly" and "explicitly" seem redudant. Non-AP STA always carries available channle bitmap in the A-Control field in these two modes	delete "implicitlly" and "explicitly"	2017/1/9 9:42

8169	Ming Gan	225	1 28.3.10.8.3	289	36	T	Y	289.36 28.3.10.8.3		The big Gamma _M(k) in the equation 28-20 is the phase rotation value, but it does not specify the value for the pilot subcarriers although phase rotation is not done on the pilot subcarriers.	as the proposed in the comment		2017/1/9 9:42
8170	Noel Slotl	225	1 4.3.14a	9	21	G	N	9.21 4.3.14a		The term "only" implies that the HE non-AP STA can only support 20MHz operation. It would be nice if the HE non-AP STA could support operation in more than 20MHz channel bandwidths.	"An HE non-AP STA shall support operation in 20 MHz channel bandwidth."		2017/1/9 9:42
8171	Osama Aboulmagd	225	1 3.4	7	1	G	Y	7.01 3.4		The abbervation list seems to be incomplete	add missing abbreviations, e.g. MU-BAR, A-BQR, BQRP, etc. Additionaly S-MPDU is not defined. I think it is the VHT Single PPDU. As much as I can search it is not defined in 802.11-2016. Need to be added in this draft.		2017/1/9 9:42
8172	Osama Aboulmagd	225	1 17.5.2.3	167	59	G	Y	167.59 17.5.2.3		There is one occurance of "TBD" on page 167	TBD has to be either deleted or resolved		2017/1/9 9:42
8173	Osama Aboulmagd	225	1 4.3.14a	9	19	T	Y	9.19 4.3.14a		Support of 160 and 80+80 MHz is not required for the an HE non-AP STA to be a VHT STA since they are optional features.	delete 160 MHz and 80+80 MHz. Add a line to include the optional support for 160 and 80+80 MHz.		2017/1/9 9:42
8174	Osama Aboulmagd	225	1 9.2.4.5.4	20	43	T	Y	20.43 9.2.4.5.4	8590	The new HE rule added to Table 9-9, how would a receipient return a multi-STA BA in response to a DL HE MU PPDU? Additionally it is not clear what type of the trigger frame is used to return the response. There is MU ACK trigger frame type.	clarify		2017/1/9 9:42
8175	Osama Aboulmagd	225	1 9.2.4.6.1	21	62	T	Y	21.62 9.2.4.6.1		The rule at the end of page 21, "The VHT subfield is set to 1 and the HE subfield is set to 0 to indicate VHT variant..". Actually a VHT device wouldn't care what the value of the so called "HE subfield" is since it is a reserved bit. Therefore it seems to me that any VHT device will always interpret the HT control field as a VHT variant as long as VHT field is set to 1.	need to define precisely the behaviour of a VHT device in this case, espcially when bit 0 and bit 1 are set to 1 and 1. Does this rle requires changing VHT devices already deployed?		2017/1/9 9:42
8176	Osama Aboulmagd	225	1 9.2.4.6.4	22		T	Y	22.00 9.2.4.6.4		A-Control needs to be defined	as in comment		2017/1/9 9:42
8177	Osama Aboulmagd	225	1 9.2.4.6.4.2	23	51	T	Y	23.51 9.2.4.6.4.2		It is not clear what variant of the trigger frame carries an immediate ack? Is it the baic trigger variant?	indicate the variant trigger frame explicitly		2017/1/9 9:42
8178	Osama Aboulmagd	225	1 9.2.4.6.4.3	24	59	T	Y	24.59 9.2.4.6.4.3		does the channel width field in the Operating Mode indicates an operating channel at less or equal the indicated BW? E.g. when the Channel Width is set to 1, does it indicate less or equal 40 MHz	CLARIFY		2017/1/9 9:42
8179	Osama Aboulmagd	225	1 9.2.4.6.4.5	26	22	T	Y	26.22 9.2.4.6.4.5		BSR is really very confusing. The UP bits are mapped to AC. The same TID field is used to either indicate the UP or the TSID. I can understand the ACI Bitmap. Hoever the delta TID are very confusing. What function does this field provide? UP doesn't have TID associated with it.	clarify the use of TID		2017/1/9 9:42
8180	Osama Aboulmagd	225	1 9.2.4.6.4.5	25	31	T	Y	25.31 9.2.4.6.4.5		BSR operation is redundant and is covered by biggybacking the buffer size using the Queue Size field of the QoS Control field	Given the efficiency of using piggybacing to communicate buffer status and the apparent complexity of the BSR operation as defined in this clause, the proposal is to delete this part.		2017/1/9 9:42
8181	Osama Aboulmagd	225	1 9.2.4.6.4.5	26	50	T	Y	26.50 9.2.4.6.4.5		SF needs to be included in the abbreviation clause, if it is not already there	as in comment		2017/1/9 9:42
8182	Osama Aboulmagd	225	1 9.2.4.6.4.7	28	8	T	Y	28.08 9.2.4.6.4.7		In table 9-18d, what does it mean "channel is available"? Does it mean the STA is capable of receiving PPDU at the specified BW? Or does it mean the channel was sensed to be free using carrier sensing?	clarify		2017/1/9 9:42
8183	Osama Aboulmagd	225	1 9.2.4.6.4.7	27	42	T	Y	27.42 9.2.4.6.4.7		The operation of the BQR is not clear as described later in the draft. Does this operation intended to replace the dynamic BW operation in VHT?	clarify		2017/1/9 9:42

8184	Osama Aboulmagd	225	1 9.2.4.6.4.7	28	8	T	Y	28.08 9.2.4.6.4.7		The channel indications in table 9-18d, is there a relationship to primary and secondary channels? The language is all over the place.	clarify		2017/1/9 9:42
8185	Osama Aboulmagd	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8		What an RDP Trigger frame is? It doesn't seem to be defined	Define if needed		2017/1/9 9:42
8186	Osama Aboulmagd	225	1 9.3.1.9.7	37	23	T	Y	37.23 9.3.1.9.7		The language, "multi-STA multi-TID and multi-STA single TID" is very awakward. Additionally there is no BA variant having this name.	I suggest using something like, "Multi-STA BA varaint for single or multiple TID", I am sure the Editor will come up with better wording :-)		2017/1/9 9:42
8187	Osama Aboulmagd	225	1 9.3.1.9.7	38	35	T	Y	38.35 9.3.1.9.7		I am wondering what is the value of using multi-STA BA variant to aknowledge a single MPDU or VHT Single MPDU. Is there any gain compared to using the normal ACK frame?	Clarify		2017/1/9 9:42
8188	Osama Aboulmagd	225	1 9.3.1.20	40	22	T	Y	40.22 9.3.1.20		B0 and B1 of the sounding dialog token in VHT are reserved. Does this mean a VHT device always set those two bits to 0? Would it be possible for a VHT device to set B0 or B1 or both to 1? Is it an implementation issue.	if a VHT device sets B1 to 1 for any reason, what would be the behavior of an HE device? Clarify		2017/1/9 9:42
8189	Osama Aboulmagd	225	1 9.3.1.23.1	49	15	T	Y	49.15 9.3.1.23.1		Can someone please translate the paragraph starting at line 11 on page 49 and ending at line 15 of the same page? For example what does, "the AC that is recommeneded for aggregation of MPDUs of Acs belonging to the same AC..." Acs belonging to the same AC!!!!!	as in comment		2017/1/9 9:42
8190	Osama Aboulmagd	225	1 9.3.1.23.1	49	6	T	Y	49.06 9.3.1.23.1		AC Preference level seems to be useless. Wouldn't Preferred AC be sufficient?	delete AC Preference level		2017/1/9 9:42
8191	Osama Aboulmagd	225	1 9.3.1.23.5	51	17	T	Y	51.17 9.3.1.23.5		BSRP needs to be added to the abbreviations	as in comment		2017/1/9 9:42
8192	Osama Aboulmagd	225	1 9.3.1.23.5	51	22	T	Y	51.22 9.3.1.23.5		How the Common Info field and the User Info field are relevant to Buffer Status Report Poll. I'd have expceted some parameters relevant to the BSR, e.g. AC, TID, etc.	clarify		2017/1/9 9:42
8193	Osama Aboulmagd	225	1 9.3.1.23.5	51	33	T	Y	51.33 9.3.1.23.5		what does "Trigger Dependnet " mean?	explain		2017/1/9 9:42
8194	Osama Aboulmagd	225	1 9.3.3.1	52	38	T	Y	52.38 9.3.3.1		RAPS needs to be added to the abbreviations Clause	as in comment		2017/1/9 9:42
8195	Osama Aboulmagd	225	1 9.4.2.200	69	22	E	Y	69.22 9.4.2.200		there may be a numbering issue. 9.4.2.200 in 11ah is assigned to TSF Timer Accuracy element. May need to change the numbering for TWT element	as in comment.		2017/1/9 9:42
8196	Osama Aboulmagd	225	1 9.4.2.200	69	30	T	Y	69.30 9.4.2.200		Comparing the IE in Figure 9-589av to the one in 11ah draft, it seems that this TWT element is a new element by adding Broadcast TWT ID. The question is; is this a new IE? If not then I don't understand what format is now used for ah	clarify		2017/1/9 9:42
8197	Osama Aboulmagd	225	1 9.4.2.200	69	30	T	Y	69.30 9.4.2.200		There are sub-fields in the TWT IE having variable length. When repeating for each TWT parameter, how the information can be decoded given the variabe length of some of the sub-fields?	Clarify		2017/1/9 9:42
8198	Osama Aboulmagd	225	1 9.4.2.200	70	50	T	Y	70.50 9.4.2.200	8591	The terms Scheduling STA and Scheduled STA need to be defined	as in comment		2017/1/9 9:42
8199	Osama Aboulmagd	225	1 9.4.2.200	72	36	T	Y	72.36 9.4.2.200		The term broadcast TWT SP needs to be defined	as in comment		2017/1/9 9:42
8200	Osama Aboulmagd	225	1 9.4.2.200	72	47	T	Y	72.47 9.4.2.200		Table 9-262k1 seems to be totally arbitrary and is not based on any rationale. Perhaps some explanation is in order.	either provide a rationale for the different restrictions or simply delete the table. My preference is to delete the table.		2017/1/9 9:42
8201	Osama Aboulmagd	225	1 9.4.2.221	94	1	T	Y	94.01 9.4.2.221		what MU EDCA parameter set is used for. It seems tat the only new parameter is the MUEDCA Timer. The rest of the parameters are the same as in EDCA Parameter set.	Needs clarification to see how useful this nes IE is		2017/1/9 9:42
8202	Osama Aboulmagd	225	1 9.4.2.223	95	55	E	Y	95.55 9.4.2.223		STA-2-STA	change "2" to "to"		2017/1/9 9:42
8203	Osama Aboulmagd	225	1 9.4.2.223	95	54	T	Y	95.54 9.4.2.223		What does "improve probability" mean? Improve with respect to what?	explain or delete		2017/1/9 9:42

8204	Osama Aboulmagd	225	1 9.4.2.223	96	23	T	Y	96.23 9.4.2.223		what role does "Vendor Specific Service Identifier" do?	clarify		2017/1/9 9:42
8205	Osama Aboulmagd	225	1 9.4.2.224	96	31	T	Y	96.31 9.4.2.224		why there is a need to define a "periodic sequence" of quiet elements?	clarify		2017/1/9 9:42
8206	Osama Aboulmagd	225	1 9.4.2.223	95	48	T	Y	95.48 9.4.2.223		Is there a field in the HE Capability element to indicate support for this feature? If not then I believe it needs to be added.	as in comment		2017/1/9 9:42
8207	Osama Aboulmagd	225	1 10.2	113	4	T	Y	113.04 10.2		The 802.11ax amendment introduces MU transmissions which is not supported by any of the control functions in Figure 10-1 of the 802.11-2016. There is a need to introduce a ne MU access function and add to the Figure.	as in comment.		2017/1/9 9:42
8208	Osama Aboulmagd	225	1 10.3.1	113	50	T	Y	113.50 10.3.1		what is "duration-based" RTS? It needs to be defined	as in comment		2017/1/9 9:42
8209	Osama Aboulmagd	225	1 10.3.2.4a	115	47	T	Y	115.47 10.3.2.4a		the paragraph of clause 10.3.2.4a is very vague. What does manaing RTS usage mean? What does length-based mean? The whole paragraph needs to be rewritten explaining those words like duration-based, etc.	as in comment		2017/1/9 9:42
8210	Osama Aboulmagd	225	1 10.49.1	144	30	T	Y	144.30 10.49.1		Why is the need for an AID assign rule? AID is assigned by the AP and is implementation issue. There is no need for a rule that probably no one will use it. Does the new rule improves any performance?	delete the sub-clause		2017/1/9 9:42
8211	Osama Aboulmagd	225	1 27.2.2	150	34	T	Y	150.34 27.2.2	8592	My ubderstading is the single NAV currently supported by 802.11 devices is updated based on the Duration value in the MAC header of all received frame (Inter or Intra BSS). The so called "Basic NAV" is only updated based on Inter-BSS frames received.	it is better to find another name other than Baisc NAV. Mayve Iter-BSS NAV.		2017/1/9 9:42
8212	Osama Aboulmagd	225	1 27.2.3	152	14	T	Y	152.14 27.2.3		MU-EDCA needs to be defined	as in comment		2017/1/9 9:42
8213	Osama Aboulmagd	225	1 27.2.3	152	13	T	Y	152.13 27.2.3		The parameter HEMUEDCATimer[AC] seems to appear for the first time in the draft on page 152. No proper definition was given and its role in channel acces wasn't explained.	Introduce definition and describe its use including how to set its value		2017/1/9 9:42
8214	Osama Aboulmagd	225	1 27.2.3	152	8	T	Y	152.08 27.2.3		Clause 27.2.3 doesn specify clearly when an EDCA for UL MU Capable STAs is obtained. It focuses on the different parameter settings.	explain which counters are involved in obtaining the TXOP. Does HEMUEDCATimer[AC] only used to contrl the values of Cwmin, Cwmax, etc as implied in the last paragarph of this clause. Need to be clear		2017/1/9 9:42
8215	Osama Aboulmagd	225	1 27.4.1	157	28	T	Y	157.28 27.4.1		It is not clear to me under what conditions a non-AP STA sends a Multi-STA BlockAck frame. My understanding is Multi-STA BlockAck is to acknowlege trigger-based PPDU transmitted by multiple non-AP STAs. I aslo understand that a non-AP STA will never send a trigger frame.	specify those conditions where a non-AP STA will send a Multi-STA BA		2017/1/9 9:42
8216	Osama Aboulmagd	225	1 27.5.1.3	163	27	T	Y	163.27 27.5.1.3	8593	what does "channel availability" mean?	clarify		2017/1/9 9:42
8217	Osama Aboulmagd	225	1 27.5.1.3	163	20	T	Y	163.20 27.5.1.3		what does "efficient way" mean? How the word "efficient" is defined?	delete the fisrt sentence or qualify the word "efficient"		2017/1/9 9:42
8218	Osama Aboulmagd	225	1 27.5.2.5	171	12	T	Y	171.12 27.5.2.5		Once again, What is "efficient way"?	clarify		2017/1/9 9:42
8219	Osama Aboulmagd	225	1 27.5.2.5	171	30	T	Y	171.30 27.5.2.5		Clause 27.5.2.5 desctibes two methods to achieve the same function. Since the use of Queue Size in QoS Control frame is mandatory while the use of the BSR A-Control is optional, the suggestion is to remove the optional one.	as in comment		2017/1/9 9:42
8220	Osama Aboulmagd	225	1 27.5.2.6	172	28	T	Y	172.28 27.5.2.6		If a STA doesn't support UL OFDMA RA, then I am assuming it associates with the AP by acquiring the medium and sends an association request maybe using a SU PPDU. Is that correct?	If correct, then I just adding some language to that effect after the first paragraph of the clause		2017/1/9 9:42

8221	Osama Aboulmagd	225	1 27.5.2.6	173	17	T	Y	173.17 27.5.2.6		In Figure 27-1, what does M-BA mean?	I think it mean Multi-STA BlockAck. If correct please make the changes.		2017/1/9 9:42
8222	Osama Aboulmagd	225	1 27.6.2	177	44	T	Y	177.44 27.6.2		Figure 27-3 and 27-4 need to be updated.	as in comment		2017/1/9 9:42
8223	Osama Aboulmagd	225	1 27.7	181	44	T	Y	181.44 27.7		Is TWT really required? If I remember correctly the issue that was discussed related to scheduled trigger frames for which the AP can easily sets its schedule and announce to STAs. Why is the need to include a heavy protocol to achieve such a simple function?	delete TWT operation and its related items from the draft		2017/1/9 9:42
8224	Osama Aboulmagd	225	1 27.7.2	180	23	T	Y	180.23 27.7.2		Let's consider a scenario where all STAs have individual TWT agreements with the AP. Would the AP group STAs to start a TWT SP and MU transmissions? I think some explanation is needed to be added for the AP behaviour.	as in comment		2017/1/9 9:42
8225	Osama Aboulmagd	225	1 27.7.3.1	183	7	T	Y	183.07 27.7.3.1		Figure 27-5 is supposed to describe the broadcast TWT operation. However I cannot see the word broadcast any where in the Figure. What exactly "broadcast: mean relative to the Figure. Is this a case of choosing a bad name for a bad protocol?	Clarify why the name "broadcast" was assigned to this procedure		2017/1/9 9:42
8226	Osama Aboulmagd	225	1 27.7.3.1	183	7	T	Y	183.07 27.7.3.1		From Figure 27-5, it is clear that there is significant overhead associated with Broadcast TWT. Only one MU PPDU was sent after the transmission of many overhead frames. The Figure speaks for itself. Adding TWT with its heavy protocol machinery is a source of significant overhead for a sunction that can be achieved in a simple way	Quantify the overhead involved in this figure. Better yet, just delete TWT and all its related items from the draft. Actually the whole first paragraph is speculative and maybe it is better to delete it.		2017/1/9 9:42
8227	Osama Aboulmagd	225	1 27.7.3.1	183	31	T	Y	183.31 27.7.3.1	8594	I thnik it would be much easire by explicitly specify the MMPDU that contains the TWT element, whether it is the TWT Req or the TWT Resp.	as in comment		2017/1/9 9:42
8228	Osama Aboulmagd	225	1 27.7.3.2	184	20	T	Y	184.20 27.7.3.2	8595	"Trigger-enabled TWT SP" need to be defined	as in comment		2017/1/9 9:42
8229	Osama Aboulmagd	225	1 27.7.3.3	185	35	T	Y	185.35 27.7.3.3		The term "broadcast TWT element" is used in many places but I wasn't able to find its format	clarify		2017/1/9 9:42
8230	Osama Aboulmagd	225	1 27.9.1	190	6	T	Y	190.06 27.9.1		what "system level performance" is? Is it delay, throughput or all performance metrics	it is better to delete these words and replace with something like "allows the concurrent use of the media by more than one STA".		2017/1/9 9:42
8231	Osama Aboulmagd	225	1 27.9.1	190	11	T	Y	190.11 27.9.1		what does "SR PPDU" mean?	clarify		2017/1/9 9:42
8232	Osama Aboulmagd	225	1 27.9.1	190	14	T	Y	190.14 27.9.1		Is OBSS_PD defined any where? If not then it needs to be added to the definitions and abbreviations clauses	as in comment		2017/1/9 9:42
8233	Osama Aboulmagd	225	1 27.9.1	190	24	T	Y	190.24 27.9.1		The rules starting on line 24 are not clear. Does it mean that both of the NAV timers are not going to be updated if the PPDU is an inter-BSS PPDU? It seems there is a contradiction with the rules for updating the two NAV timers	Clarify		2017/1/9 9:42
8234	Osama Aboulmagd	225	1 27.9.1	190	37	T	Y	190.37 27.9.1		the term SR_Delay seems to be introduced for the first time in this subclause without proper definition	define the term		2017/1/9 9:42
8235	Osama Aboulmagd	225	1 27.9.1	190	50	E	Y	190.50 27.9.1		Line 50, "SR Backoff procedure for SR delayed case"; is there a formatting issue here. Should this be a subclause?	adjust the format if necessary		2017/1/9 9:42
8236	Osama Aboulmagd	225	1 27.9.2.2	191	4	T	Y	191.04 27.9.2.2		system level performance again	as in previous comment		2017/1/9 9:42
8237	Osama Aboulmagd	225	1 27.9.2.2	191	7	T	Y	191.07 27.9.2.2		parameters incuded in the inequality and the Figure need to be defined	as in comment		2017/1/9 9:42
8238	Osama Aboulmagd	225	1 27.9.2.2	192	20	E	Y	192.20 27.9.2.2		TB need to be replaced by Trigger-Based	as in comment		2017/1/9 9:42
8239	Osama Aboulmagd	225	1 27.9.2.2	192	16	T	Y	192.16 27.9.2.2		It is not clear what is the condition for the STA to consider an inter-BSS PPDU as not having been received	introduce the condition		2017/1/9 9:42
8240	Osama Aboulmagd	225	1 27.11.4	196	54	T	Y	196.54 27.11.4		the rule starting at line 54 doesn't seem be precise. Ignoring the HE PPDU is only for Inter-BSS PPDU, not for all the BSS color values	clarify		2017/1/9 9:42

8241	Osama Aboulmagd	225	1 27.14.1	199	14	T	Y	199.14 27.14.1	Intra PPDU power save needs to be defined	as in comment	2017/1/9 9:42
8242	Osama Aboulmagd	225	1 27.14.1	199	19	T	Y	199.19 27.14.1	shouldn't there be a condition where the STA goes to the doze state if the BSS-color is not the same as the AP color to which the STA is associated? Does the STA stays awake all the time for receiving an inetr-BSS PPDU	as in comment	2017/1/9 9:42
8243	Osama Aboulmagd	225	1 27.16.3	207	9	T	Y	207.09 27.16.3	It is not clear does this scheme quiet all the STAs in the BSS except two STAs doing sta-to-sta, or it keeps a set of STA not quiet. If a set of STA are not quiet, how this will help STA-to-STA communication.	clarify	2017/1/9 9:42
8244	Osama Aboulmagd	225	1 27.16.3	207	1	T	Y	207.01 27.16.3	What is the impact of Quieting all (or most of the STAs) on the BSS throughput. Has there been any study to quantify the impact?	discuss the impact on BSS throughput	2017/1/9 9:42
8245	Osama Aboulmagd	225	1 27.16.3	207	1	T	Y	207.01 27.16.3	There are many references in this clause that this feature is intended for STA-to-STA operation. However this operation is not defined together with the STA-to-STA signaling and communication	Define the missing operations	2017/1/9 9:42
8246	Pascal VIGER	225	1 9.2.4.5.7	21	25	T	Y	21.25 9.2.4.5.7	9.2.4.5.7 TXOP Duration Requested subfield The "TXOP Duration Requested" is used by a STA to indicate its need for its next EDCA TXOP. Such duration information is not relevant for UL MU operation (meaningless). An HE STA shall not use "TXOP Duration" format but only using the "queue size" format.	Add following sentence at the end of chapter 9.2.4.5.7: "An HE STA does not use the "TXOP Duration Requested" subfield format. For HE buffer status feedback operation for UL MU, it should either or both use the "queue size" format in QoS Control field (see 9.2.4.5.6) or the BSR format in A-Control subfield of the HE variant HT Control field (see 9.2.4.6.4.5). "	2017/1/9 9:42
8247	Pascal VIGER	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1	Table 9-18a--Control ID subfield values. The table misses the description of content for RDP (control ID value 6), with forward indication to the appropriate section.	as per comment, add sentence: "See 9.2.4.6.4.8 (Reverse direction protocol (RDP))"	2017/1/9 9:42
8248	Pascal VIGER	225	1 9.2.4.6.4.3	24	62	T	Y	24.62 9.2.4.6.4.3	The UL MU Disable subfield indicates whether UL MU operation is suspended or resumed by the non-AP STA. There is no information indicating the reason of such a suspending, and no procedure to enter or exit this suspending phase.	A procedure shall be defined. Otherwise, STAs may decide by themselves the usage of not of UL MU scheme, which may downgrade the efficiency of UL MU mode.	2017/1/9 9:42
8249	Pascal VIGER	225	1 9.2.4.6.4.5	25		T	Y	25.00 9.2.4.6.4.5	9.2.4.6.4.5 Buffer Status Report (BSR) The report contains buffer status information used for UL MU operation. But the AP should only receive amount of data directed to it.	As already stated in 9.2.4.5 QoS Control Field for the legacy format of buffer status, add following sentence after 1st paragraph of 9.2.4.6.4.5 BSR: "For reporting its buffer status information, a non-AP HE STA considers the amount of buffered traffic intended for the HE AP."	2017/1/9 9:42
8250	Pascal VIGER	225	1 9.2.4.6.4.7	28	10	T	Y	28.10 9.2.4.6.4.7	HE STA may report the channel availability information in the BQR A-Control subfield of frames it transmits if the AP. Is it possible to inform of the un-availability of the primary 20MHz channel ? In other words, is first row named '20 MHz' effective ?	need clarification	2017/1/9 9:42
8251	Pascal VIGER	225	1 9.2.5.2	31	1	T	Y	31.01 9.2.5.2	How to specify the Duration/ID for BQR Trigger Frame ? Only Basic, MU-RTS and MU-BAR TF are considered in this section.	Clarify the estimated duration for BQR, and especially when it is followed by multiple frames.	2017/1/9 9:42

8252 Pascal VIGER	225	1 9.3.1.23.4	50	51	T	Y	50.51 9.3.1.23.4	Selection of MU-RTS stations: The 802.11ac reservation scheme is conserved (20Mhz, 40Mhz, 80Mhz and so on) even if it is limited. It is better if the AP selects those stations answering a CTS in given channels. As example, two stations reserve a given band, each one in a respective 20 MHz channel: STA A is selected for primary 20MHz, but STA B is selected for the second 20MHz channel. This lets more chance to cover the full band, and avoids collision riskt for simultaneous CTS (synchronization requirement as defined in 17.3.9.10, Pre-correction accuracy requirements).	Modify the description of RU Allocation subfield in the User Info field (line 51 page 50), to support allocation of a given 20MHz RU to specific stations.		2017/1/9 9:42
8253 Pascal VIGER	225	1 9.3.1.23.1	48	23	T	Y	48.23 9.3.1.23.1	The MU-RTS can be used as a protection for UL transmission triggered by a Basic trigger frame. Using such successive TF frames is not efficient. It is more efficient if the basic trigger can also trigger CTS frames, before the UL transmissions occur. Thus overhead is reduced.	The "Trigger Dependent Common Info field" may be used to indicate the STA in charge of emitting HE-Triggered CTS frames. A specific structure composed of AID12 and RU Allocation subfields may be used. This replaces the requirement of using a dedicated MU-RTS trigger frame. The CTS frames will be emitted a SIFS after the Basic Trigger frame having such Trigger Dependent Common Info field. The UL triggered PPDUs are sent by STA a SIFS after CTS frames.		2017/1/9 9:42
8254 Pascal VIGER	225	1 9.3.1.23.7	51		T	Y	51.00 9.3.1.23.7	9.3.1.23.7 Bandwidth Query Report Poll variant As the Common Info field of the BQRP variant Trigger frame is defined in Figure 9-52d, there is missing the usage of such common info fields : are they all used or required ?	As done for MU-RTS, clarify which fields are reserved.		2017/1/9 9:42
8255 Pascal VIGER	225	1 27.5.1.3	163	17	T	Y	163.17 27.5.1.3	Buffer Query Report following MU-RTS procedure may be inefficient. As MU-RTS scheme relies on 802.11ac (contiguous band) and BQR supports punctured band among a whole similar BW, there is chance that HE STAs indicate in their BQR some 20 MHz channels that are not protected by MU-RTS/CTS. The usage of not protected channels may be problematic for legacy devices.	The MU-RTS variant may be enhanced to support emission of CTS frames along a punctured bandwidth. A HE STA already has the possibility to sense various 20MHz channels, determine those free, and emit on a specific (sub-)channel (according BQR capability). During its MU-RTS/CTS scheme, the HE AP may inform HE STAs which are BQR-capable (through a single bit in MU-RTS TF) that it is ready to receive CTS on non-contiguous channels		2017/1/9 9:42
8256 Pascal VIGER	225	1 10.3.2.8a.3	117	44	T	Y	117.44 10.3.2.8a.3	The MU-RTS acts as a protection mechanism for 20Mh, 40Mhz or 80Mhz primary band (see 9.3.1.23.4 MU-RTS variant). In section 10.3.2.8a.3 CTS response to MU-RTS, it is indicated that "If any 20 MHz channel indicated in the RU Allocation subfield of the User Info field is busy, the CTS frame response shall not be transmitted." Does this suppose that HE STA can transmit CTS frames in punctured/non-contiguous 20Mhz channels ?	- If yes, there is no more requirement to limit RU allocation to indicate only whether the CTS frame is transmitted on the primary 20 MHz channel, primary 40 MHz channel, primary 80 MHz channel, 160 MHz channel, or 80+80 MHz channel. Possibility should be offered to AP for allocating a given 20MHz RU (anywhere is its position among the BW) for a given STA for sending the CTS. - If no, please make the 2 texts aligned		2017/1/9 9:42

8257	Pascal VIGER	225	1 10.3.2.8a.3	117	22	T	Y	117.22 10.3.2.8a.3	"CTS response to MU-RTS" uses a different sensing period (ED-based CCA during the SIFS after receiving an MU-RTS frame) that "CTS after a RTS" (-[ ]10.3.2.7 : CCA on all secondary channels has been idle for a PIFS prior to the start of the RTS frame). Is it normal ? what is the reason for ? Note: According to 10.22.2.5, HT/VHT/HE STAs use same CCA rules for determining channel width on secondary channels (e.g. PIFS interval for 5GHz)	as per comment	2017/1/9 9:42
8258	Pascal VIGER	225	1 9.4.2.218.3	86	30	T	Y	86.30 9.4.2.218.3	Class A STAs are high capability devices and class B STAs are low capability devices. There is missing a link to a detailed definition of such classes.	as per comment	2017/1/9 9:42
8259	Pascal VIGER	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	In HE Operation element section, there are 2 different descriptions of BSS Color field. Clarification is needed.	as per comment	2017/1/9 9:42
8260	Pascal VIGER	225	1 9.4.2.219	91	50	E	Y	91.50 9.4.2.219	In description of PE Duration subfield, the term PE duration is used but has never been introduced earlier.	replace "PE duration" by "Packet Extension duration". Maybe also useful to introduce PE acronym in chapter 3.4 (Abbreviations and acronyms).	2017/1/9 9:42
8261	Pascal VIGER	225	1 9.4.2.219	92	15	T	Y	92.15 9.4.2.219	An AP corresponding to neither a nontransmitted BSSID nor a transmitted BSSID sets both MaxBSSID Indicator and Tx BSSID Indicator to 0. Does this AP correspond to a AP with no support of multi-BSS feature, or is there any other case ? It would be nice to clarify this point in the text.	as per comment	2017/1/9 9:42
8262	Pascal VIGER	225	1 9.4.2.221	94	4	T	Y	94.04 9.4.2.221	The MU EDCA Parameter Set element is used for proper operation of the QoS facility during the CP. The sentence is unclear, and particularly the CP term is not defined. If CP refers to contention period, is it useful to be used as this kind of period is the only allowed type (as according to 27.1, the use of HCCA is banned at HE STAs and thus there is no more CFP period).	Please clarify the sentence.	2017/1/9 9:42
8263	Pascal VIGER	225	1 9.4.2.221	94	52	T	Y	94.52 9.4.2.221	For value 0 of the AIFSN field, the sentence is unclear : "the AIFS is equal to the value of the MU EDCA Timer, i.e. EDCA is disabled for the duration specified by the MUEDCATimer for the corresponding AC". This lets think that the EDCA medium access will be enabled once the AIFS will expire. BUT this will not be possible, as AIFS timer is large (8*1024-μs) and re-scheduled at each start of EDCA contention phase (see 10.3.2.3.6 AIFS).	Please clarify the sentence, in order to clearly know under which conditions the EDCA medium access will be re-enabled.	2017/1/9 9:42
8264	Pascal VIGER	225	1 27.2.3	152	19	T	Y	152.19 27.2.3	HEMUEDCATimer[AC] shall uniformly count down to 0. Is this countdown continuously performed along time, or is the countdown suspended in between each medium access (that means only counting down during contention procedure periods) ?	Please clarify when countdown is executed.	2017/1/9 9:42
8265	Pascal VIGER	225	1 9.4.2.221	94	62	T	Y	94.62 9.4.2.221	MU EDCA Timer field indicates a duration expressed in time unit (TU) (a TU equals to 1024 ++s). No exemplary value is provided for MU EDCA Timer field. By the way, is value 0 allowed (and so what is the consequence)?	According to 10.22.2.4 (Obtaining an EDCA TXOP), the value of AIFSN[AC] shall be greater than or equal to 2 for non-AP STAs. That results in having a AIFS timer value never null. Thus, the MU EDCA Parameter Set must provide a correct value, preventing the null case.	2017/1/9 9:42

8266 Pascal VIGER	225	1 10.22.2.2	130	1	T	Y	130.01 10.22.2.2	In 10.22.2.2, EDCA backoff procedure is resumed for contradictory reasons described in the two first paragraphs: When an HE STA successfully receives and does not receive the corresponding acknowledgement frame. A clarification (even text simplification) is needed.	as per comment		2017/1/9 9:42
8267 Pascal VIGER	225	1 11.49.1	144	34	T	Y	144.34 11.49.1	The formula for assigning AID is unclear. Is the formula limited to bits 5 to 8, what is the relation with definition of AID in chapter 9.4.1.8 AID field of Revmc ?	as per comment		2017/1/9 9:42
8268 Pascal VIGER	225	1 27.2.2	151	50	T	Y	151.50 27.2.2	Is it useful to mention "10.4.3.3 (NAV operation during the CFP)" for an HE STA ? As according to 27.1, the use of HCCA is banned at HE STAs, is there still exist a CFP period?	as per comment		2017/1/9 9:42
8269 Pascal VIGER	225	1 10.3.2.4	115	12	T	Y	115.12 10.3.2.4	Is it useful to mention "10.4.3.3 (NAV operation during the CFP)" for an HE STA ? As according to 27.1, the use of HCCA is banned at HE STAs, is there still exist a CFP period?	as per comment		2017/1/9 9:42
8270 Pascal VIGER	225	1 27.5.1.2	163	13	T	Y	163.13 27.5.1.2	Following sentence is unclear : "An MPDU sent in a broadcast RU of an HE MU PPDU shall not include information intended for a STA that is identified as the recipient of another RU in the same HE MU PPDU." This lets think a broadcast RU is not destined to any station. Isn't it a unicast RU instead ?	as per comment		2017/1/9 9:42
8271 Pascal VIGER	225	1 27.5.2.1	163	58	T	Y	163.58 27.5.2.1	There is a mix of STA, HE STA, non-AP STA terms used in this section in a confusing manner. As example, page 164 line 14, "A STA shall not transmit a Trigger frame..." whereas only a AP HE STA is able to do this.	as per comment		2017/1/9 9:42
8272 Pascal VIGER	225	1 27.5.2.1	164	24	T	Y	164.24 27.5.2.1	class A or class B devices are said to be defined in 28.3.14 (Transmit requirements for an HE trigger-based PPDU), whereas this seems not the case.	as per comment		2017/1/9 9:42
8273 Pascal VIGER	225	1 27.5.2.2.1	164	63	T	Y	164.63 27.5.2.2.1	The purpose of following sentence is unclear: "More than one Trigger frame may be aggregated in an A-MPDU. If more than one Trigger frame is aggregated in an A-MPDU, all of them shall have the same content." What is the aim of such duplication, to replace padding ?	as per comment		2017/1/9 9:42
8274 Pascal VIGER	225	1 27.5.2.2.2	166	51	T	Y	166.51 27.5.2.2.2	The paragraph 10 of section 27.5.2.2.2 is unclear. 1. "If an AP includes one or more Trigger Frames or HE variant HT Control fields with an UL MU Response Scheduling A-Control subfield, then they shall collectively elicit HE trigger-based PPDU responses..." - What does "AP includes" mean ? - what "they" refers to ? 2. "...such that at least one RU is allocated for each 20 MHz channel occupied by the eliciting PPDU. " In case of the one RU is of random access type, then there is chance to have no body emiting in that RU.	1. as per comment, re-word the sentence. 2. modify the sentence accordingly: ".. Such that at least one scheduled RU is allocated.." In a optimized manner to avoid any empty 20MHz channel, add a complement sentence at the end of the paragraph : "In order to limit the effect of unusued random RUs over a given 20MHz channel, an AP may substantially uniformly distribute scheduled RUs and random RUs over the set of 20 MHz channels used by the eliciting PPDU."	2017/1/9 9:42

8275	Pascal VIGER	225	1 27.5.2.2.3	167	38	T	Y	167.38 27.5.2.2.3	It is stated that "An AP may send the Trigger frame using any access category and follows the rules defined in 10.22.2". This is not applicable at all because AP does not know which AC to use. For Data or Ack frames, the AC is determined by examining the TID field of MSDU packet (TID is linked to UPs of MSDU from higher layer as refer to 5.1.1.3). For a Management frame, the AC is AC_VO. What is the procedure for a Trigger Frame, as it is a control frame (which by essence has no TID) ?	Procedure can envisage a mapping between the priority of the TF and the Access Categories AC0 - AC3 to insert the trigger frame. As example, by following sentence: " the trigger frame may be conveyed in the AC that corresponds to the type of uplink traffic that the HE STAs are requested to send in response to the trigger frame. If different ACs are requested to STAs, the HE AP may select an Access Category for the trigger frame corresponding to the AC with the highest priority among the requested Access Categories." Additionally, upon emergency for sending a Trigger Frame (BSR reports inform of an important amount of pending data), then " The AP may select one AC queue with the highest priority as the one that has the lowest backoff value, i.e. the next AC queue from which data will be sent on the medium. "	2017/1/9 9:42
8276	Pascal VIGER	225	1 27.5.2.3	167	58	T	Y	167.58 27.5.2.3	The 3rd paragraph describes the conditions for a HE STA to transmit a HE trigger-based PPDU. If the STA is not associated with the AP, procedure is TBD.	The TBD should be replaced by the random access procedure (as described in page 164 line 46). The case of AID=0 should also be considered with same behavior.	2017/1/9 9:42
8277	Pascal VIGER	225	1 27.5.2.3	170	1	T	Y	170.01 27.5.2.3	In case of Basic Trigger frame, STA behavior for selecting content for HE trigger-based PPDU is unclear, for the case that "the STA does not have a frame of the required type". What is such required type ? Does the required type refer to an AC type? In case of scheduled RU, it seems detrimental not to transmit any data PPDU (anyway the 'type' is) !	- Clarify the 'type' meaning. - Instead not transmitting or transmitting Qos Null frames, consider transmitting any other pending MPDU(s) (as per rules of 27.10.4) for the only case where a scheduled RU is allocated, in order to enhance medium usage.	2017/1/9 9:42
8278	Pascal VIGER	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	The case of having an assigned RU with AID of the STA is not considered, in the case a STA has already started a random access procedure in the past (previous TF) and its OBO is pending (non null). Even it is specified that this scheduled STA will transmit other its scheduled RU, it is not specified that OBO procedure is not effective for this TF.	Add following sentence after 3rd paragraph: "An HE STA shall not decrement its OBO counter if it has found a RU assigned to it with its STA's AID."	2017/1/9 9:42
8279	Pascal VIGER	225	1 27.5.2.2.1	164	46	T	Y	164.46 27.5.2.2.1	A value of 0 in AID12 indicates that nonassociated STAs can transmit using the random access procedure. Section 27.5.2.6 (UL OFDMA-based random access) describes that STA shall use the RAPS element sent by AP. How nonassociated STA can manage several APs ?	Specify if a limit of number of APs shall be set for nonassociated STA (even the limit is only one AP).	2017/1/9 9:42
8280	Pascal VIGER	225	1 27.5.2.2.1	164	46	T	Y	164.46 27.5.2.2.1	A value of 0 in AID12 indicates that nonassociated STAs can transmit using the random access procedure. When support of multiple BSSID is activated, the case of several BSSs shall be managed with regards to the RAPS profile usage.	as per comment, a procedure is required for RAPS management in case of multiple-BSSID.	2017/1/9 9:42
8281	Pascal VIGER	225	1 27.5.2.6.3	174	20	T	Y	174.20 27.5.2.6.3	For retransmission procedure for random access, what is the effect if pending data was sent through EDCA during the while. Does OBO is erased or is let as-is to continue OBO procedure for any other remaining data ? What are the effects onto OCW ?	please clarify any effect in the case.when HE PPDU, which was initially trigger-based, was sent in EDCA.	2017/1/9 9:42

8282	Pascal VIGER	225	1 27.5.2.6.1	172	45	T	Y	172.45 27.5.2.6.1	HE STA shall use the most recently RAPS element, but this element should be received from the intended AP !	Modify the sentence of 4th patagraph:"An HE STA shall use the OCWmin and OCWmax values indicated in the RAPS element within Beacon or Probe Response frames most recently received by the AP emitting the Trigger Frame, regardless of the access category...".	2017/1/9 9:42
8283	Pascal VIGER	225	1 27.5.2.7	174	23	T	Y	174.23 27.5.2.7	NDP feedback report procedure is not detailled.What is a short feedback ? Are there several types of feedback ?	as per comment	2017/1/9 9:42
8284	Pascal VIGER	225	1 27.5.2.7	174	23	T	Y	174.23 27.5.2.7	NDP feedback report procedure is optional for non-AP STA. Does this mean it is mandatory for AP STA?	as per comment. Please confirm the mandatory or optional status.	2017/1/9 9:42
8285	Pascal VIGER	225	1 27.7.2	181	12	T	Y	181.12 27.7.2	The term "A TWT requesting STA should not initiate transmission of frames " is not so clear. I suppose "initiate transmission" means "accessing the medium by the STA itself in order to transmit". In case "initiate transmission" would just mean "transmit", it is no sense for the end of the sentence: "A TWT requesting STA ...should not " <transmit> "frames to the TWT responding STA within trigger-enabled TWT SPs for that TWT agreement."	Please modify the sentence, by replacing "should not initiate transmission of frames" by "should not initiate a medium access to transmit frames".	2017/1/9 9:42
8286	Pascal VIGER	225	1 27.7.3.3	185	40	T	Y	185.40 27.7.3.3	Second paragraph of 27.7.3.3: "A TWT scheduled STA should not initiate transmission of frames to the TWT scheduling STA outside of broadcast TWT SPs and within trigger-enabled TWT SPs." This sentence should be completed to which action the TWT scheduled STA should do.	I propose to clearly indicate after the sentence: "However, the TWT scheduled STA should wait for trigger frames sent by the TWT scheduling STA".	2017/1/9 9:42
8287	Pascal VIGER	225	1 27.7.3.3	184	17	T	Y	184.17 27.7.3.3	The TWT scheduling STA shall schedule for transmission a Trigger frame addressed to one or more TWT scheduled STAs during a trigger-enabled TWT SP. Due to density and other (legacy) STAs contending on the medium, there is good chance that the TWT SP start time is delayed. TWT STAs may miss the TWT SP for any of 2 reasons: - the TWT-TF is collided (worse case) - the TWT-TF is too much postponed : thus some TWT STAs will fallback from MU-EDCA to EDCA mode, or will transition to doze state	The Trigger Frames having a targeted wake time schedule (trigger-enabled SPs) shall be prioritized for being transmitted by HE AP. This will ensure the timing contract with TWT scheduled stations is respected for trigger-enabled TWT agreement, which is beneficial for medium usage efficiency.	2017/1/9 9:42
8288	Pascal VIGER	225	1 27.14.2	200	23	T	Y	200.23 27.14.2	Power save with UL OFDMA may make the STA waking up at the same time. They "may enter the doze state until the start of that TWT SP". If the TF is collided or delayed due to contention, STA s may miss the TWT SP (can not use TWT SP).	The Trigger Frames having a targeted wake time schedule (trigger-enabled SPs) shall be prioritized for being transmitted by HE AP. This will ensure the timing contract with TWT scheduled stations is respected for trigger-enabled TWT agreement, which is beneficial for medium usage efficiency.	2017/1/9 9:42

8289	Pascal VIGER	225	1 27.16.3.1	207	4	T	Y	207.04 27.16.3.1	There is a mis-configuration for EDCA contention between Quiet time period mode and MU EDCA Parameter mode: when a STA has both traffic to deliver STA2STA (during QTP period) and MU UL to AP (outside QTP period), what EDCA configuration to use ?	The MU EDCA mode is not able to support STA2STA communication. Instead of applying a penalty of EDCA parameters, it would be better efficient to let backoff counters count down as usual with no penalty, and to condition the transmission of data (when one EDCA backoff is down to zero) according QTP on/off mode. - In case of QTP period is off, then the MU EDCA mode may prevent any EDCA access. Thus the backoff down to zero is simply re-drawn. - In case of QTP period is on when a backoff counter reaches zero, if the data stored in the associated traffic queue include data to be addressed to another STA different from the access point (i.e. it is STA2STA data), then this data is transmitted. next the backoff counter is redrawn.		2017/1/9 9:42
8290	Pascal VIGER	225	1 9.4.2.221	94	62	T	Y	94.62 9.4.2.221	MU EDCA Parameters Set is not compatible with STA2STA (or also called P2P) traffics, like DLS or TDLS protocols. The penalty scheme as envisaged by MU EDCA Parameter Set penalizes the uplink traffic to the AP, but also blocks any legacy EDCA access for P2P communications.	The MU EDCA Parameter Set has to be modified (and as a result will be simplified) to support P2P traffics. The MU EDCA Timer is the only parameter kept, and indicates the duration of time during which the restricted UL MU mode is used. Principle consists in to let EDCA backoff counters count down as usual (that is to say with no penalty as currently envisaged by former MU EDCA Parameters set), and to condition the transmission of data (when one EDCA backoff is down to zero) according to the MU EDCA Timer activity and the data to be sent. - if MU EDCA Timer is not active (or timeout), then the transmission is allowed on the given queue - if MU EDCA Timer is not active, then only transmission of P2P data inside the expired queue is allowed. Next the backoff counter is redrawn as usual.		2017/1/9 9:42
8291	Pascal VIGER	225	1 9.4.2.221	94	62	T	Y	94.62 9.4.2.221	The specification of MU EDCA parameter Set prevent any EDCA backoff counter (e.g. by MU EDCA Timer, i.e. EDCA is disabled for the duration specified by the MUEDCATimer). Thus, this mechanism makes the EDCA backoff counters no longer mirror which AC queue should have the highest priority of transmission in the meaning of conventional EDCA (e.g. with oldest data stored in it). For instance, when the STA receives a trigger frame with a scheduled RU dedicated to it, the STA having its backoff counters frozen, cannot anymore use them to handle its QoS and send the data with the highest priority (not only regarding its Access Category, but also regarding the respective ages of the data in the AC[] queues). Therefore, MU EDCA Parameter Set has broken the classical QoS handling.	The MU EDCA Parameter Set can be modified to keep the EDCA penalty and allow keeping the backoff count down. Among the set of parameters used in 9.4.2.221, the MU EDCA Timer is the only parameter kept, and indicates the duration of time during which the restricted UL MU mode is used. Principle consists in to let EDCA backoff counters count down as usual (that is to say with no penalty as currently envisaged by former MU EDCA Parameters set), and to condition the transmission of data (when one EDCA backoff is down to zero) according to the MU EDCA Timer activity and the data to be sent. - if MU EDCA Timer is not active (or timeout), then the EDCA transmission is allowed on the given queue - if MU EDCA Timer is not active, then transmission through EDCA is dis-allowed. Next the backoff counter is redrawn as usual.		2017/1/9 9:42

8292 Pascal VIGER	225	1 27.5.2.2.2	165	46	T	Y	165.46 27.5.2.2.2	In case of multiple BSS, the TA field of TF shall be set to the MAC address of the transmitted BSSID. In order to distinguish (because it seems the case is not supported yet) between TF addressed to STAs of the single 'transmitted BSSID', and TF addressed to STAs of the overall multiple BSS set, the Individual/Group bit shall be used (forced to 1).	as per comment	2017/1/9 9:42
8293 Patrice Nezou	225	1 10.28.4	137	10	T	Y	137.10 10.28.4	A HE RD responder may transmit A-MPDU with MPDUs from multiple TIDs that are from the same AC or higher AC. What is the consequence for the backoff values of the transmitted Acs ? What about QoS ?	I propose to reset current backoff values of transmitting ACs.	2017/1/9 9:42
8294 Patrice Nezou	225	1 27.5.1.2	163	13	T	Y	163.13 27.5.1.2	"An MPDU sent in a broadcast RU of an HE MU PPDU shall not include information intended for a STA that is identified as the recipient of another RU in the same HE MU PPDU." Does it mean that broadcasted RU can not be mixed with any other types of RU ?	as per comment	2017/1/9 9:42
8295 Patrice Nezou	225	1 27.2.3	152	10	T	Y	152.10 27.2.3	When a STA is in MU EDCA mode, how the QoS data are selected from the ACs ?	Proposal: "The HE trigger-based PPDU is built based on the current backoff values of ACs. The backoff values must be updated after the transmission".	2017/1/9 9:42
8296 Patrice Nezou	225	1 27.2.3	152	29	T	Y	152.29 27.2.3	When a STA switches from MU EDCA to EDCA, how the backoff are restored ?	Proposal: "The backoff values must be resetted and CW is set to CWmin when switching from MU EDCA to EDCA."	2017/1/9 9:42
8297 Patrice Nezou	225	1 27.2.3	152	10	T	Y	152.10 27.2.3	A STA, exchanging QoS data frame with another in DLS mode and setting in MU EDCA mode, cannot transmit any QoS data frame related to the DLS transmission because the scheduled RU allocated by the AP are dedicated to transmit QoS data frame to the AP.	Disable MU transmission mode when direct link transmissions are initiated by sending a frame containing an OMI A-Control field, and reset EDCA parameters.	2017/1/9 9:42
8298 Patrice Nezou	225	1 27.5.2.2.2	166	49	T	Y	166.49 27.5.2.2.2	A 20MHz channel must not remain empty. The draft specifies:" at least one RU is allocated for each 20MHz channel ..." To be sure that RU is really used by a STA. It would be better that at least one RU is a scheduled RU.	Revise the text with the following words : " ... at least non random access RU is allocated ... "	2017/1/9 9:42
8299 Patrice Nezou	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	If the STA is not associated with the AP, TBD	Remove TBD	2017/1/9 9:42
8300 Patrice Nezou	225	1 27.5.2.6.1	172	49	T	Y	172.49 27.5.2.6.1	An AP only "may" include RAPS element evenif UL OFDMA-based random access is unable. How can the STA set OCWmin and OCWmax itself if no RAPS is sent by the AP ?	A non-AP STA must define default values for OCWmin and OCWmax	2017/1/9 9:42
8301 Patrice Nezou	225	1 27.5.2.6.2	173	48	T	Y	173.48 27.5.2.6.2	"If the selected RU is considered busy as a result of either physical or virtual carrier sensing, then the HE STA shall not transmit its HE trigger-based PPDU in the randomly selected RU and it randomly selects any one of the RUs that are assigned to AID value 0 in the subsequent Trigger frame." Why keeping OBO equal to 0 ? For the next subsequent Trigger frame, perhaps no more data will be ready to send.	Proposal: "... the HE STA shall not transmit its HE trigger-based PPDU in the randomly selected RU and the HE STA shall reinitialize its OBO counter to a new random value in the range of 0 and OCWmin"	2017/1/9 9:42

8302	Patrice Nezou	225	1 9.7.3	108	10	T	Y	108.10 9.7.3	"The TIDs present in a data enabled A-MPDU context are also constrained by the channel access rules (for a TXOP holder; see 10.22.2 (HCF contention based channel access (EDCA)) and 10.22.3 (HCF controlled channel access (HCCA))) and the RD response rules (for an RD responder, see 10.28.4 (Rules for RD responder)). This is not shown in these tables." The rules to choose TIDs in a data enabled A-MPDU is not described for TXOP responder. It is described only for a TXOP holder and a RD responder. For a MU UL TX, the STA are TXOP responder and we are not in a RD transmission.	Proposal: "The TIDs present in a data enabled A-MPDU context are also constrained by the channel access rules (for a TXOP holder and a TXOP responder; see 10.22.2 (HCF contention based channel access (EDCA)) and 10.22.3 (HCF controlled channel access (HCCA))) and the RD response rules (for an RD responder, see 10.28.4 (Rules for RD responder)). This is not shown in these tables."		2017/1/9 9:42
8303	Patrice Nezou	225	1 27.5.2.2.3	167	38	T	Y	167.38 27.5.2.2.3	"An AP may send the Trigger frame using any access category and follows the rules defined in 10.22.2 (HCF contention based channel access (EDCA)) for obtaining and sharing the TXOP." How is the position of the Trigger frame in the selected queue ? If too many frame are waiting to be transmitted, the transmission information (for instance RU information) can be obsolete.	Proposal:" An AP may send the Trigger frame using any access category and follows the rules defined in 10.22.2 (HCF contention based channel access (EDCA)) for obtaining and sharing the TXOP. The Trigger frame is located in the head of the FIFO related to the selected access category"		2017/1/9 9:42
8304	Patrice Nezou	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	"The NDP feedback report is a mechanism for an HE AP to collect short feedbacks from a very high number of HE STAs, in an efficient manner. The feedbacks (e.g. resource requests) are sent without data payloads in response to a Trigger frame. The feedbacks are not for channel sounding. This mechanism is optional for non-AP STA." No type of Trigger frame is defined for NDP feedback report generation.	Precise the NDP feedback procedure		2017/1/9 9:42
8305	Patrice Nezou	225	1 27.5.2.6.3	174	15	T	Y	174.15 27.5.2.6.3	"If the HE trigger-based PPDU is not successfully transmitted in the randomly selected RU, the STA shall update its OCW to 2xOCW + 1 for every retransmission, until the OCW reaches the value of OCWmax." What does it happen if the data to be retransmitted is finally sent through EDCA mode ? What is the behavior related to OCW and OBO values ?	Proposal: A retransmission procedure has to be initiated in the STA and the data to be retransmitted must be flagged. If the flagged data packet is transmitted before the end of the retransmission procedure, the current OBO and OCW are resetted and reinitialized.		2017/1/9 9:42
8306	Paul Nikolich	225	1 3	7		G	Y	7.00 3	Resource Unit is missing from Definitions and Acronyms	add RU to acronyms and define Resource Unit		2017/1/9 9:42
8307	Paul Nikolich	225	1 3	7		G	Y	7.00 3	The term 'DC subcarrier' is missing from Definitions and Acronyms	add DC to acronyms and define DC subcarrier		2017/1/9 9:42
8308	Paul Nikolich	225	1 3	7		G	Y	7.00 3	The term target wake up time, TWT, is missing from Definitions and Acronyms	add TWT to acronyms and define target wake up time		2017/1/9 9:42
8309	Peter Ecclesine	225	1 6.2.37.4	13	59	E	N	13.59 6.2.37.4	Clause numbering 6.3.27.4 appears twice, also 6.3.27.4.2	Properly format clause numbering		2017/1/9 9:42
8310	Peter Ecclesine	225	1 6.3.4.2.2	11	59	E	N	11.59 6.3.4.2.2	Missing comma after ... here and P12 L62	Change to ...,		2017/1/9 9:42
8311	Peter Ecclesine	225	1 8.3.5.2.2	15	19	E	N	15.19 8.3.5.2.2	Missing comma after "DATA" here and P15 L48	add comma after DATA		2017/1/9 9:42
8312	Peter Ecclesine	225	1 9.2.4.7.1	30	13	E	N	30.13 9.2.4.7.1	HE PPDU duration reference in Table 9-19 should be Table 28-46 HE PHY characteristics, not Table 21-29 VHT PHY characteristics.	Change reference per comment to Table 28-46.		2017/1/9 9:42
8313	Peter Ecclesine	225	1 B.4.27.1	413	16	T	Y	413.16 B.4.27.1	HE MAC PICS missing Quieting Action frame, and it's use is necessary in radar bands so that DFS in-service monitoring requirments can be met.	Add mandatory reception of Quiet Time Period Action frame when some channels are in radar bands. Transmission can be optional like MU-RTS transmission is.		2017/1/9 9:42
8314	Peter Ecclesine	225	1 9.4.1.11	55	54	E	N	55.54 9.4.1.11	Quiet Time Period subclause reference should be 9.6.29, not 9.6.23a	change per comment		2017/1/9 9:42
8315	Peter Ecclesine	225	1 9.6.8.34	99	44	T	N	99.44 9.6.8.34	If AP supports QAB, the Quiet Time Period action frame may be required.	Insert changes to QAB frame format if required		2017/1/9 9:42

8316 Peter Ecclesine	225	1 9.6.8.36	99	56	T	Y	99.56 9.6.8.36	Keep Vendor Specific element as order 6 in FILS Discovery frame format as it is in 11ax baseline, do not delete it.	Do not change order 6 text	2017/1/9 9:42
8317 Peter Ecclesine	225	1 27.1	149	10	T	Y	149.10 27.1	It is useful for the reader to in 27.1 state which clause 27 procedures are mandatory and optional like 28.1.1 Introduction to the HE PHY. 300+ 'SHALL's (out of 430) can be removed within clause 27.	Write MAC introduction with Shalls in 27.1 and remove > 300 'SHALL's from remaining Clause 27 text.	2017/1/9 9:42
8318 Peter Ecclesine	225	1 27.3.2	152	55	E	Y	152.55 27.3.2	There are too many 'SHALL's in clause 27.3 dynamic fragmentation text.	State what is mandatory and optional in 27.3.2, then remove redundant shalls from 27.3.x	2017/1/9 9:42
8319 Peter Ecclesine	225	1 27.4.1	157	22	E	Y	157.22 27.4.1	There are too many 'SHALL's in clause 27.4 Block acknowledgement text.	State what is mandatory and optional in 27.4.1, then remove redundant shalls from 27.4.x	2017/1/9 9:42
8320 Peter Ecclesine	225	1 27.5.1.1	162	59	E	Y	162.59 27.5.1.1	There are too many 'SHALL's in clause 27.5 MU operation text.	State what is mandatory and optional in 27.5.1.1, 27.5.2.1, ... 27.5.2.6.1 and 27.5.3, then remove redundant shalls from 27.5.x	2017/1/9 9:42
8321 Peter Ecclesine	225	1 27.6.1	175	12	E	Y	175.12 27.6.1	There are too many 'SHALL's in clause 27.6 HE sounding protocol text	State what is mandatory and optional in 27.6.1, then remove redundant shalls from 27.6.x	2017/1/9 9:42
8322 Peter Ecclesine	225	1 27.7.1	179	64	E	Y	179.64 27.7.1	There are too many 'SHALL's in clause 27.7 TWT operation text	State what is mandatory and optional in 27.7.1, then remove redundant shalls from 27.7.x	2017/1/9 9:42
8323 Peter Ecclesine	225	1 27.8.1	187	46	E	Y	187.46 27.8.1	There are too many 'SHALL's in clause 27.8 Operating mode indication text	State what is mandatory and optional in 27.8.1, then remove redundant shalls from27.8.x	2017/1/9 9:42
8324 Peter Ecclesine	225	1 27.9.1	190	12	E	Y	190.12 27.9.1	There are too many 'SHALL's in clause 27.9 spatial reuse operation text	State what is mandatory and optional in 27.9.1. then remove redundant shalls from 27.9.x	2017/1/9 9:42
8325 Peter Ecclesine	225	1 27.11	195	44	E	Y	195.44 27.11	There are too many 'SHALL's in clause 27.11 Setting TXVECTOR parameters text	Insert an general section stating what is mandatory and optional in 27.11.1, then remove redundant shalls from 27.11.x	2017/1/9 9:42
8326 Peter Ecclesine	225	1 27.14	199	10	E	Y	199.10 27.14	There are too many 'SHALL's in clause 27.14.x text	Insert a general section stating what is mandatory and optional in 27.14.x, then remove redundant shalls from 27.14.x	2017/1/9 9:42
8327 Peter Ecclesine	225	1 27.15.1	201	10	E	Y	201.10 27.15.1	There are too many 'SHALL's in clause 27.15 PPDU format text	State what is mandatory and optional in 27.15.1, then remove redundant shalls from 27.15.x	2017/1/9 9:42
8328 Peter Ecclesine	225	1 27.16.1	206	19	E	Y	206.19 27.16.1	There are too many 'SHALL's in cause 27.16 HE BSS operation text	State what is mandatory and optional in 27.16.1. then remove redundant shalls from 27.16.x	2017/1/9 9:42
8329 Peter Ecclesine	225	1 28.3.17.3	345	55	T	Y	345.55 28.3.17.3	As the frequency bands are shared, receiver performance where the interfering signal is not our own modulation should be specified. Receiver selectivity with AWGN should be specified.	The interfering signal should not be the same signal as is used in 28.3.17.2 receiver sensitivity. Specify with AWGN interfering signal of bandwidth W MHz.	2017/1/9 9:42
8330 Peter Ecclesine	225	1 28.3.17.4	347	6	T	Y	347.06 28.3.17.4	As the frequency bands are shared, receiver performance where the interfering signal is not our own modulation should be specified. Receiver selectivity with AWGN should be specified.	The interfering signal should not be the same signal as is used in 28.3.17.2 receiver sensitivity. Specify with AWGN interfering signal of bandwidth W MHz.	2017/1/9 9:42
8331 Peter Ecclesine	225	1 28.1.3	212	61	T	Y	212.61 28.1.3	Regulatory requirements text (e.g.,17.3.8.3) should be added in HE PHY functions.	Repeat 17.3.8.3 text here and modify as necessary.	2017/1/9 9:42
8332 Peter Ecclesine	225	1 28.1.1	209	10	T	Y	209.10 28.1.1	Somewhere it should be mentioned that adaptivity at other than these specified CCA thresholds might be required by regulation, and that adaptivity is not specified here. Sharing the 5 GHz band in Europe under EN 301 893 is an example. The 2.4 is getting new rules too.	Insert "Regulatory requirements that do not affect interoperability are not addressed in this standard. Implementers are referred to the regulatory sources in Annex D for further information. Operation in countries within defined regulatory domains may be subject to additional or alternative national regulations."	2017/1/9 9:42
8333 Peter Ecclesine	225	1 27.1	149	10	T	Y	149.10 27.1	The MAC clause should have a regulatory requirements paragraph just after the introduction, as channel access might have regulatory constraints, e.g., EN 301 893 in Europe.	Insert "Regulatory requirements that do not affect interoperability are not addressed in this standard. Implementers are referred to the regulatory sources in Annex D for further information. Operation in countries within defined regulatory domains may be subject to additional or alternative national regulations."	2017/1/9 9:42

8334	Peter Khoury	225	1 9.2.4.6.4.7	28		T	Y	28.00 9.2.4.6.4.7	There should be some objective measure of whether a channel is available or not in the Bandwidth Query Report.	State either that the channel power should be less than -72dBm or make a reference to a preexisting level specified in the baseline.	2017/1/9 9:42
8335	Peter Khoury	225	1 9.3.1.23	47	44	T	Y	47.44 9.3.1.23	An FCS could be placed as part of the padding to enable a client device to abort construction of the UL triggered frame early and thus save power.	Add a clause stating that if the number of octets of padding is greater than 4 that the first 4 octets of padding shall consist of an FCS for the previous octets.	2017/1/9 9:42
8336	Peter Khoury	225	1 9.3.1.23	47	34	T	Y	47.34 9.3.1.23	The expected step size of 1dB is not present in Table 2-25g. The implied step size in the first row of the table is 8/9 of a dB.	Change -20dBm to -10dBm	2017/1/9 9:42
8337	Peter Khoury	225	1 27.5.2.2.1	164		E	Y	164.00 27.5.2.2.1	The sentence "An AP may transmit a PPDU that elicits an HE trigger-based PPDU from one or more STAs by including in the PPDU:" should specify whether the following paragraphs are "either or" or "and both"	An AP may transmit a PPDU that elicits an HE trigger-based PPDU from one or more STAs by including in the PPDU either: -One or more Trigger ... or -An UL MU Response ...	2017/1/9 9:42
8338	Peter Khoury	225	1 27.5.2.2.1	164	63	T	Y	164.63 27.5.2.2.1	The sentence "More than one Trigger frame may be aggregated in an A-MPDU. If more than one Trigger frame is aggregated in an A-MPDU, all of them shall have the same content." Is the situation in which more than one trigger frame is aggregated is a DL MU PPDU with multiple Trigger Frames transmitted to different users in different RUs? If this is the case then this sentence is overly restrictive as information about other users is being unicasted to a single user.	Clarify the language on situations in which trigger frames may be aggregated. If the situation described in the comment is valid allow trigger frames to different users in an A-MPDU to differ from each other.	2017/1/9 9:42
8339	Peter Khoury	225	1 9.3.1.23	46	62	T	Y	46.62 9.3.1.23	The trigger frame specifies the MCS for all users on the subsequent UL MU OFDMA frame. This seems overly restrictive especially when the non-AP STA has just received the trigger frame from which is has immediate knowledge of the channel. Its even more restrictive for the random access RUs in which case a client may be forced to use an MCS much lower than necessary and waste bandwidth or may be precluded from using an RU that was specified for an MCS that was too high for the current link budget.	Include an option for an Uplink OFDMA format similar to the downlink MU PPDU format that includes MCS but not RU. This new frame type would be specified in section 28.3.4 and would be a frame similar to the HE MU PPDU with another OFDMA signalling symbol in which uplink RU MCS could be specified by the transmitting stations.	2017/1/9 9:42
8340	Peter Loc	225	1 9.2.5.7	32	26	T	Y	32.26 9.2.5.7	The paragraph implies that the STAs receiving the MU-RTS measure the time in microseconds between the end of the MU-RTS and the end of the PPDU carrying the CTS frame. The measured times may differ from STA to STA due to the accuracy of the measurements. For legacy devices, the accuracy is not a factor, but for HE devices due to the stringent requirement on packet alignment at the AP, minor differences in the timing may adversely affect the alignment of the packets arriving at the AP.	Modify the paragraph starting from line 26 to the following: "In a CTS frame that is transmitted in response to an MU-RTS frame, the Duration/ID field is set to the value obtained from the Duration/ID field of the MU-RTS frame that elicited the CTS frame adjusted by subtraction of aSIFSTime and the number of microseconds required to transmit the CTS frame at a data rate determined by the rules in 9.7."	2017/1/9 9:42
8341	Peter Loc	225	1 4.3.14a	9	51	T	Y	9.51 4.3.14a	There are other Trigger Frame variants that HE-STAs are required to support, such as MU-RTS, MU-BAR and BSRQ	Change the feature statement on line 51 of this subclause to "Mandatory support for basic, MU-RTS, MU-BAR and BSRQ trigger frames."	2017/1/9 9:42
8342	Peter Loc	225	1 9.3.1.23	44	23	E	N	44.23 9.3.1.23	Referencing the wrong table for the No. of LTFs vs. Spatial Streams	Change Table 22-13 to Table 21-13	2017/1/9 9:42
8343	Peter Loc	225	1 9.3.1.23	47	5	E	N	47.05 9.3.1.23	Editorial change: "DCM is not be used"	DCM is not to be used	2017/1/9 9:42

8344	Peter Loc	225	1 9.3.1.23	42	26	T	N	42.26 9.3.1.23	The Trigger Dependent User Info field is not explicitly defined	Change "The Trigger frame can include an optional Trigger Dependent Common Info field and optional Trigger Dependent User Info field" to "The Trigger frame can optionally include a Trigger Dependent Common Info field and a Trigger Dependent User Info field. The Trigger Dependent Common Info field is a component of the Common Info Field. The Trigger dependent user info field is a component of the User info field."		2017/1/9 9:42
8345	Peter Loc	225	1 27.5.2.5	171	14	T	Y	171.14 27.5.2.5	To ensure that BSR feedback frames are aligned at the AP, STAs should use explicit BSR feedbacks in response to a BSRP variant Trigger Frame, eliminating any padding related issues from the transmitting STAs	Change the first paragraph of this sub clause to the following: The non-AP STA can either implicitly deliver BSRs in the QoS Control field or BSR A-Control field of any frame transmitted to the AP (unsolicited BSR) or shall explicitly deliver BSRs in any frame sent to the AP in response to a BSRP variant Trigger frame (solicited BSR).		2017/1/9 9:42
8346	Peter Loc	225	1 9.4.2.218.3	81	9	T	N	81.09 9.4.2.218.3	Dual band support field is not used in this draft and should be replaced by a more useful capability indication. Support for 5GHz and/or 2.4 GHz can be inferred from the Channel Width Set field	Make this "Dual Band Support" field a reserved field for future assignment.		2017/1/9 9:42
8347	Peter Loc	225	1 9.4.2.218.3	82	45	T	Y	82.45 9.4.2.218.3	Support of preamble puncturing in all secondary 20/40MHz channels should be mandatory to reduce complexity on the AP scheduling and to improve network efficiency	Remove or change the Preamble Puncturing Rx field to "reserved"		2017/1/9 9:42
8348	Peter Loc	225	1 9.4.2.218.3	87	59	T	Y	87.59 9.4.2.218.3	Due to the lack of a length indication, the decoder does not know if Tx Rx HE MCS Support field does not contain the Tx and Rx bitmaps. It would be more deterministic if both Tx BW Bitmap subfield or the Rx BW Bitmap fields are always present in the Tx Rx HE MCS support field.	Replace the paragraph starting on line 56 with the following: "The Tx BW Bitmap and the Rx BW Bitmap are always present, even if one or both of these subfields has the value of all zeros.		2017/1/9 9:42
8349	Peter Loc	225	1 10.3.2.4a	115	38	T	N	115.38 10.3.2.4a	HE Duration-based RTS threshold is not defined	The HE duration threshold may be defined by adding dot11HEDurationRTSThreshold. A question still remains: how does an HE STA enable the use of HE duration threshold? To simplify the 11ax standard, suggest to remove this HE Duration threshold.		2017/1/9 9:42
8350	Peter Loc	225	1 10.3.5	113	45	T	Y	113.45 10.3.5	The procedure to disable HE duration-based RTS is not described.	Unless the procedure is clearly defined, the draft should follow the existing RTS/CTS procedure. Remove the paragraph starting from lines 45 to line 48		2017/1/9 9:42
8351	Peter Loc	225	1 10.3.1	113	50	T	Y	113.50 10.3.1	The procedure to enable HE duration-based RTS is not described.	Unless the procedure is clearly defined, the draft should follow the existing RTS/CTS procedure. Remove the paragraph starting from lines 50 to line 54		2017/1/9 9:42
8352	Peter Loc	225	1 10.3.2.4	114	63	E	N	114.63 10.3.2.4	Typo	Change to "all of the following"		2017/1/9 9:42
8353	Peter Loc	225	1 10.3.2.4	114	48	T	Y	114.48 10.3.2.4	Redundant instruction for non-HE STAs because this has been addressed in the current IEEE802.11 standard.	Remove "If the STA is not an HE STA and When the received frame's RA is equal to the STA's own MAC address, the STA shall not update its NAV"		2017/1/9 9:42
8354	Peter Loc	225	1	150	29	T	Y	150.29	The statement "For an HE STA maintaining two NAVs, ..." implies that there are HE STAs may only support one NAV. Since supporting 2 NAVs is a requirement for HE-STAs, this statement should be rephrase.	Change "For an HE STA maintaining two NAVs, ..." to "For HE STAs,...."		2017/1/9 9:42

8355	Peter Loc	225	1 9.4.2.219	92	43	T	Y	92.43 9.4.2.219	It's not stated clearly that the HE-STAs joining the HE-BSS are required to support the HE-MCS indicated in the Basic HE-MCS and NSS Set for both Rx and Tx. For UL OFDMA and UL MU MIMO, it should be a requirement that HE STAs support the HE-MCS as indicated in the basic HE-MCS and NSS Set for receiving and transmitting.	Modify the statement on lines 43-44: The Basic HE MCS And NSS Set field indicates the HE-MCSs for each number of spatial streams in HE PPDUs that are supported by all HE STAs in the BSS (including IBSS and MBSS) in both Tx and Rx	2017/1/9 9:42
8356	Peter Loc	225	1 27.16.2	206	35	T	Y	206.35 27.16.2	The transition period after the AP transmits an announcement frame for BSS color change until the new BSS color takes effect could be very long, especially for STAs that are in sleep mode and STAs that are in the process of joining the existing BSS. Need to devise a scheme to minimize the potential problems that may arise during the long transitional time to handle newly associated STAs that are just associated with the AP using the existing BSS color.	What suggested here is just a temporary solution. A more detailed procedure should be developed to alleviate the problems mentioned. Modify the paragraph on line 43-45 as follows: "During the time leading up to the BSS Color change TBTT, an HE AP shall continue to advertise the existing BSS Color via the BSS Color subfield in HE Operation element with an indication that this BSS color is to be changed at the BSS color TBTT"	2017/1/9 9:42
8357	Peter Loc	225	1 28.1.1	209	51	T	N	209.51 28.1.1	HE PHY does not support only data field OFDM symbol of 12.8 us. It also supports data symbol of 4 us.	Change "The HE PHY supports a single Data field OFDM symbol duration of 12.8 ++s (excluding guard interval)." to "In addition to supporting the legacy OFDM data symbols of 3.2 us, HE-PHY also supports OFDM data symbol of 12.8 us (excluding guard interval).	2017/1/9 9:42
8358	Peter Loc	225	1 27.2.1	149	43	T	Y	149.43 27.2.1	The STA that receives a control frame without the TA for the first time does not know if the RA matches the saved TXOP holder address for the BSS to which it is associated. In fact, most STAs do not have the knowledge of whether the RA in the received frame is in the same BSS or not.	Modify the paragraph on lines 43-44 to the following: "The frame is a control frame that does not have a TA field and the RA matches the BSSID for the BSS to which it is associated".	2017/1/9 9:42
8359	Peter Loc	225	1 28.1.1	210	1	T	N	210.01 28.1.1	The statement "A non-AP STA is inclusive of a 20 MHz-only non-AP STA." is redundant. As already stated in 28.1.1, an HE STA is required to comply to clause 19 stated on lines 14-17 or clause 19 stated on lines 18-19.	Remove this line.	2017/1/9 9:42
8360	Peter Loc	225	1 28.3.3.6	238	7	G	Y	238.07 28.3.3.6	The statement "Only a non-AP HE STA can be a 20 MHz-only STA." is redundant. This draft standard is for HE devices, there is no need to add this trivial statement.	Remove "Only a non-AP HE STA can be a 20 MHz-only STA."	2017/1/9 9:42
8361	Peter Loc	225	1 28.1.1	211	59	G	N	211.59 28.1.1	"Maximum" and "at least" are contradictory.	Same paragraph but the word maximum is removed. (Responding with the requested beamforming feedback in an HE sounding procedure with the number of space-time streams in the HE NDP that the non-AP STA can respond to being at least 4)	2017/1/9 9:42
8362	Po-Kai Huang	225	1 3.2	5	9	E	N	5.09 3.2	Additional f)	Delete Additional f)	2017/1/9 9:42
8363	Po-Kai Huang	225	1 3.2	5	13	E	N	5.13 3.2	Additional g)	Delete Additional g)	2017/1/9 9:42
8364	Po-Kai Huang	225	1 4.3.13a	9	43	T	N	9.43 4.3.13a	The condition "Optional support for 1024-QAM on 242-, 484- and 996-tone Rus" seems to be covered by the condition "Optional support for HE-MCSs 10 and 11". The reason is that HE-MCSs 10 and 11 is basically 1024-QAM modulation based on the table in 28.5.	Replace the two sentences with "Optional support for 1024-QAM"	2017/1/9 9:42
8365	Po-Kai Huang	225	1 4.3.13a	9	60	E	N	9.60 4.3.13a	A term MU OFDMA is used in this section. Technically, OFDMA already signals a multi-user version of OFDM. Adding additional "MU" seems not to add further information	Delete "MU" in MU OFDMA.	2017/1/9 9:42
8366	Po-Kai Huang	225	1 6.3.27	13	56	T	N	13.56 6.3.27	It seems that HE Capabilities is also required in MLME-DLS.confirm because HT and VHT Capabilities are also included in MLME-DLS.confirm	Add HE Capabilities in MLME-DLS.confirm	2017/1/9 9:42

8367 Po-Kai Huang	225	1 9.2.4.1.8	19	40	T	N	19.40 9.2.4.1.8	There are two issues for the sentence "An HE AP indicates that it can set the More Data subfield to 1 by setting the More Data Ack subfield to 1 in the QoS Info field of frames it transmits." First, in 9.4.1.17, there are description saying that More Data Ack subfield is reserved for AP. Hence, the description in 9.4.1.17 contradicts with the description in 9.2.4.1.8. Second, the sentence seems to contradict with the meaning of More Data Ack subfield because in 9.4.1.17, it mentions that setting the More Data Ack subfield to 1 indicates that a STA can process Ack frames with the More Data bit in the Frame Control field equal to 1 and remain in the awake state.	Delete the sentence "An HE AP indicates that it can set the More Data subfield to 1 by setting the More Data Ack subfield to 1 in the QoS Info field of frames it transmits."		2017/1/9 9:42
8368 Po-Kai Huang	225	1 9.2.4.1.8	19	47	T	N	19.47 9.2.4.1.8	For the sentence "An HE TDLS peer STA indicates that it can set the More Data subfield to 1 by setting the More Data Ack subfield to 1 in the QoS Capability element it transmits," it seems that the sentence contradicts with the meaning of More Data Ack subfield because in 9.4.1.17, it mentions that setting the More Data Ack subfield to 1 indicates that a STA can process Ack frames with the More Data bit in the Frame Control field equal to 1 and remain in the awake state.	Delete the sentence "An HE TDLS peer STA indicates that it can set the More Data subfield to 1 by setting the More Data Ack subfield to 1 in the QoS Capability element it transmits."		2017/1/9 9:42
8369 Po-Kai Huang	225	1 9.2.4.6.4.4	25	16	T	N	25.16 9.2.4.6.4.4	There are 9 reserved bits for HE link adaptation. It is unclear why we need so many reserved bits. The issue of many reserved bits is that it will prevent aggregation of multiple control information and increase unnecessary overhead.	Reduce the number of reserved bits for HE link adaptation.		2017/1/9 9:42
8370 Po-Kai Huang	225	1 Contents	9	59	E	N	9.59 Contents	There are list for 9.2.4.6.4.7Bandwidth Query Report (BQR) and 9.2.4.6.4.8Reverse direction protocol (RDP), but there are no list for other types of A-control information	List all the types of A-control information.		2017/1/9 9:42
8371 Po-Kai Huang	225	1 9.2.4.6.4.6	27	19	E	N	27.19 9.2.4.6.4.6	The reference to Power pre-correction is wrong	Correct the reference to section of power pre-correction.		2017/1/9 9:42
8372 Po-Kai Huang	225	1 9.2.4.6.4.7	27	47	E	N	27.47 9.2.4.6.4.7	It seems that there are duplicate "HE" in description "HE DL HE MU transmission"	Simply use "HE DL MU transmission."		2017/1/9 9:42
8373 Po-Kai Huang	225	1 9.2.4.6.4.7	27	63	E	N	27.63 9.2.4.6.4.7	It seems that the descriptio "Bandwidth Query Report used for bandwidth query report operation to assist DL HE MU transmission (see 25.5.1.3. (Bandwidth query report operation)." is already covered by the description "Bandwidth Query Report used for Bandwidth Query report operation to assist HE DL HE MU transmission (see 27.5.1.3 (HE bandwidth query report operation for DL MU))"	Delete "Bandwidth Query Report used for bandwidth query report operation to assist DL HE MU transmission (see 25.5.1.3. (Bandwidth query report operation)."		2017/1/9 9:42
8374 Po-Kai Huang	225	1 9.2.4.6.4.7	28	6	T	N	28.06 9.2.4.6.4.7	It is not clear what does the first row of Table 9-18d represent. The bandwidth shall be the operating bandwidth of the STA.	Add "based on the operating bandwidth of the STA" at the end of "The Available Channel Bitmap subfield encoding is defined in Table 9-18d (Available Channel Bitmap subfield encoding)."		2017/1/9 9:42
8375 Po-Kai Huang	225	1 9.2.4.6.4.8	28	60	T	N	28.60 9.2.4.6.4.8	RDP Trigger frame is not defined anywhere in the spec. The term Trigger frame may also be misleading because the response from RDP responder is not carried in HE TB PPDU.	Simply use "for the RDP" and delete "Trigger frame."		2017/1/9 9:42
8376 Po-Kai Huang	225	1 9.3.1.23	41	47	E	N	41.47 9.3.1.23	There is a redundant parenthesis in RA field	Remoe the parenthesis in RA field.		2017/1/9 9:42

8377	Po-Kai Huang	225	1 9.3.1.23	42	7	E	N	42.07 9.3.1.23	There should be a space between "GI" and "And" in Figure 9-52d	Add space between "GI" and "And" in Figure 9-52d	2017/1/9 9:42
8378	Po-Kai Huang	225	1 9.3.1.23	44	49	E	N	44.49 9.3.1.23	In table 9-25e, it should be "Values 0 to 60".	Change "Values 0 to 61" to "Values 0 to 60".	2017/1/9 9:42
8379	Po-Kai Huang	225	1 9.3.1.23.1	48	41	T	N	48.41 9.3.1.23.1	There is no Table 8-159 in REVmc_D8.0	Correct the reference to minimum MPDU start spacing.	2017/1/9 9:42
8380	Po-Kai Huang	225	1 9.3.1.23.3	50	1	T	N	50.01 9.3.1.23.3	Currently, MU-BAR is the only variant of Trigger frames with variable length of User Info field due to variable length of BAR information. We see two issues for the current design with variable length of User Info field. First, STA needs to parse every BAR control to figure out the length even if STA does not support certain types of BAR request (ex multi-TID BAR variant). Second, In the future, if additional BAR variant is added, then legacy HE STA may not be able to parse the MU-BAR with the new BAR variant. This introduces backward compatibility issue.	Two options to address the issue. Option 1: Add a length field in Trigger dependent User Info field of MU-BAR to indicate the length of BAR control and BAR Info. Option 2: Add length field in Trigger dependent Common Info field of MU-BAR to indicate the length of the User Info field. Each User info field is padded to the indicated length if required.	2017/1/9 9:42
8381	Po-Kai Huang	225	1 9.4.2.218.3	81	8	T	N	81.08 9.4.2.218.3	Currently STBC capability if enabled would need to be supported over all BWs. STBC processing for 160MHz channels results in extra Si cost and value of using STBC in 160MHz is low and negligible. There should be a capability bit for Tx/Rx STBC with 160 MHz, so this cost is not needed for every STA supporting STBC.	Change "STBC Tx and Rx" to "STBC Tx and Rx for PPDU with bandwidth smaller than or equal to 80MHz." Add a new field with two bits at the end for "STBC Tx and Rx for PPDU with bandwidth equal to 160 MHz"	2017/1/9 9:42
8382	Po-Kai Huang	225	1 27.4.4.2	160	54	E	N	160.54 27.4.4.2	There is no section 10.3.2.11.2 in Draft 1.0	Fix the reference to MU Acknowledgement procedure	2017/1/9 9:42
8383	Po-Kai Huang	225	1 27.4.4.4	161	38	E	N	161.38 27.4.4.4	There is no section 10.3.2.11.4 in Draft 1.0	Fix the reference to MU Acknowledgement procedure	2017/1/9 9:42
8384	Po-Kai Huang	225	1 27.4.4.3	161	13	E	N	161.13 27.4.4.3	There is no section 10.3.2.11.3 in Draft 1.0	Fix the reference to MU Acknowledgement procedure	2017/1/9 9:42
8385	Po-Kai Huang	225	1 27.4.4.5	162	6	E	N	162.06 27.4.4.5	There is no section 10.3.2.11.4 in Draft 1.0	Fix the reference to MU Acknowledgement procedure	2017/1/9 9:42
8386	Po-Kai Huang	225	1 10.3.2.10.2	119	21	T	N	119.21 10.3.2.10.2	The title of 10.3.2.10.2 is misleading. It is obvioius that the section talks about HE MU PPDU, but the title uses the term "DL MU PPDU" which includes VHT MU PPDU.	Change the title of 10.3.2.10.2 to Acknowledgement procedure for HE MU PPDU in MU format	2017/1/9 9:42
8387	Po-Kai Huang	225	1 9.2.4.5.4	20	44	E	N	20.44 9.2.4.5.4	There is no section 10.3.2.11.2 in Draft 1.0. It seems that all the reference to MU acknowledgement procedure is broken.	Fix the reference to MU Acknowledgement procedure	2017/1/9 9:42
8388	Po-Kai Huang	225	1 9.4.2.218.2	76	42	T	N	76.42 9.4.2.218.2	Currently, the 32 bit BA Bitmap support capability bit is written as a capability bit for reception of 32 bit BA bitmap in Table 9-262z. However, it is generally agreed that 32 bit BA Bitmap is an option feature. Hence, 32 bit BA Bitmap should be an optional feature for transmission as well.	Two options. Option 1: Change description of Bit 21 to 32 bit BA Bitmap Support Rx. Add one capability bit in reserved field for 32 bit BA Bitmap Tx. Option 2: Change description of Bit 21 to 32 bit BA Bitmap Support Tx & Rx. Change the description in Table 9-262z correspondingly.	2017/1/9 9:42
8389	Po-Kai Huang	225	1 27.5.2.6	172	35	T	N	172.35 27.5.2.6	An HE AP may transmit a Basic Trigger frame or a BSRP Trigger frame that contains one or more RUs for random access. However, a STA only maintains one counter for OFDMA random access. Assume the same system behavior for two different types of solicitation is awkward. Specifically, a STA that intends to transmit data to AP may get its chance at the slot of BSR random access allocation and needs to backoff again.	Make clear separation between operation of regular random access allocations and BSR random access allocations by separating into two backoff counters for OFDMA random access based on trigger type.	2017/1/9 9:42
8390	Po-Kai Huang	225	1 3.2	29	4	E	N	29.04 3.2	Add definition for S-MPDU	Add definition for S-MPDU	2017/1/9 9:42

8391	Po-Kai Huang	225	1 27.4.4.3	161	8	T	N	161.08 27.4.4.3	In 27.4.4.3 DL MU PPDU soliciting an HE trigger-based PPDU response, it is not clear if the DL MU PPDU includes VHT MU PPDU.	Two suggested options to resolve the comment: If the answer is no, change the title to "HE DL MU PPDU soliciting an HE trigger-based PPDU response". Specify that trigger frame or UL MU response scheduling is not allowed in VHT MU PPDU. If the answer is yes, a sentence in the paragraph describes that "An Action frame in the DL MU PPDU is always responded with an HE trigger-based PPDU." This behavior contradicts with the description in Table 9-9--Ack Policy subfield in QoS Control field of QoS Data frames, where the content only allows DL HE MU PPDU to set MU Ack Policy. Change the following sentence "For a frame that is carried in a DL HE MU PPDU" in table 9-9 to "For a frame that is carried in a DL MU PPDU." Specify that trigger frame or UL MU response scheduling is allowed in VHT MU PPDU.		2017/1/9 9:42
8392	Po-Kai Huang	225	1 27.4.4	160	52	T	N	160.52 27.4.4	It will be worthwhile to clarify the definition of DL MU PPDU in this section. Specifically, does DL MU PPDU include VHT MU PPDU? It will also be worthwhile to clarify the definition of DL SU PPDU. Does DL SU PPDU mean any PPDU format from AP to one destination? Similarly it will be worthwhile to clarify the definition of SU PPDU. Is it PPDU with any format to a singl user?	Add the definition of DL MU PPDU, DL SU PPDU, and SU PPDU in Section 3.		2017/1/9 9:42
8393	Po-Kai Huang	225	1 27.10.4	193	58	T	N	193.58 27.10.4	Currently, it is required that Multi-STA Block Ack is used for response to multi-TID A-MPDU. However, if the receiver only receives one MPDU with EOF in the delimiter set to 1 due to error of receiving other MPDUs, and the A-MPDU is carried in VHT PPDU, then the receiver may treat the MPDU as VHT single MPDU and responds with Ack frame rather than Multi-STA Block Ack. Similarly, if the receiver only receivers one MPDU carrying QoS Data with EOF in the delimiter set to 0 due to error of receiving other MPDUs, then the receiver may treat the MPDU as single TID and respond with Block Ack rather than Multi-STA Block Ack.	There are several options to resolve the ambiguity. Option 1: Have an indication to differentiate multi-TID A-MPDU from single TID A-MPDU or S-MPDU. The reserved bit in MPDU delimiter can be used for this purpose. Option 2: HE STA always responds Multi-STA Block Ack to A-MPDU sent from HE STA that supports Multi-STA Block Ack. Option 3: Relax the restriction that response to multi-TID A-MPDU shall be Multi-STA Block Ack and allow Ack and Block Ack. Add the condition that in multi-TID A-MPDU, there is only one MPDU that solicits Ack frame.		2017/1/9 9:42
8394	Po-Kai Huang	225	1 27.11.5	197	44	T	N	197.44 27.11.5	Based on the new response rule in 27.15.2, it is now possible that a TXOP responder transmits HE extended range PPDU. As a result, the setting rule of TXOP Duration field for the HE extended range PPDU response needs to be defined.	Add the setting rule when the TXOP responder transmits HE extended range PPDU. The rule can just aligns with the setting rule when TXOP responders transmits HE TB PPDU.		2017/1/9 9:42
8395	Po-Kai Huang	225	1 9.3.1.23.6	51	40	T	N	51.40 9.3.1.23.6	GCR MU-BAR has variable length for Trigger dependent common info field due to variable length of BAR information field. As a result, in the future if additional BAR variant is added, a STA that supports GCR MU-BAR may not be able to decode User Info field. Ideally, a STA that does not support the new BAR vairant will not be included in the User Info field. However, this introduces additional checking logic except User Info field to check if a STA is solicited by different variant of Trigger frame.	Suggest to add a length field in Trigger dependent Common Info field of MU-BAR to indicate the length of BAR control and BAR Info.		2017/1/9 9:42

8396	Po-Kai Huang	225	1 9.3.1.23.4	50	43	T	N	50.43 9.3.1.23.4	Similar to section 9.3.1.23.2, 9.3.1.23.3, 9.3.1.23.5, and 9.3.1.23.7, change the note related to Trigger Dependent Common Info field and Trigger Dependent User Info field to description.	As in comment	2017/1/9 9:42
8397	Po-Kai Huang	225	1 9.3.1.23.4	50	64	E	N	50.64 9.3.1.23.4	Similar to the description in 9.3.1.23, organize the description of RU allocation field at the end of the section with itemized list.	As in comment	2017/1/9 9:42
8398	Po-Kai Huang	225	1 9.4.1.62	57	46	T	N	57.46 9.4.1.62	The description of Sounding Dialog Token Number in Table 9-76a is for RU End Index.	Fix the description for Sounding Dialog Token Number.	2017/1/9 9:42
8399	Po-Kai Huang	225	1 9.4.2.218.2	70	42	T	N	70.42 9.4.2.218.2	Description for Maximum A-MPDU Length Exponent is empty. Understand that there are corresponding descriptions after the table, but it is weird that the table is empty.	Fill in the description.	2017/1/9 9:42
8400	Po-Kai Huang	225	1 9.4.2.219	91	39	T	N	91.39 9.4.2.219	There are two paragraphs for the description of BSS Color field.	Merge these two paragraphs into one paragraph for the descriptions of AP.	2017/1/9 9:42
8401	Po-Kai Huang	225	1 27.10.4	193	47	T	N	193.47 27.10.4	11ax introduces new EOF setting rule. However, the EOF setting rule in 10.13.7 and table 9-422 in 9.7.1 is not changed correspondingly.	Make sure that the description for EOF setting in 10.13.7 and Talbe 9-422 are consistent with the new EOF setting rule added in 27.10.4.	2017/1/9 9:42
8402	Po-Kai Huang	225	1 27.2.2	150	59	T	N	150.59 27.2.2	The fourth bullet for the setting of Intra-BSS NAV with the duration information is a conditional bullet that is only reuqired if the STA is a TXOP holder. The concept is there, but the description may need be revised for clear presentation.	Several option for better presentation. Option 1: Have two set of descriptions: one for the STA that is a TXOP holder. One for the STA that is not a TXOP holder. Option 2: Add note or description to clarify that the fourth bullet is a conditional bullet that is only required for checking when the STA is a TXOP holder.	2017/1/9 9:42
8403	Po-Kai Huang	225	1 27.2.2	150	58	T	N	150.58 27.2.2	The thrid bullet for the setting of Intra-BSS NAV with the duration information may need to be revised. Specficially, it is possible that a STA that is solicited by the Trigger frame does not respond to the Trigger frame. If the Trigger frame solicits a long transmission, then the STA may contend and transmit later and hurt the reception of UL MU transmission.	Revise the rule such that a HE STA always set NAV when receives a Trigger frame regardless of being solicited for response or not.	2017/1/9 9:42
8404	Po-Kai Huang	225	1 9.7.1	107	1	T	N	107.01 9.7.1	The MPDU Length field is used by HE PPDU as well. However, there is no corresponding description in equaltion 9-5.	Add the description for HE PPDU in equation 9-5.	2017/1/9 9:42
8405	Po-Kai Huang	225	1 9.7.3	107	30	E	N	107.30 9.7.3	It should be HE_EXT_SU rather than HE_EXT.	Fix the error.	2017/1/9 9:42
8406	Po-Kai Huang	225	1 9.7.3	107	35	T	N	107.35 9.7.3	Can Multi-TID be used in A-MPDU carried in non-HE PPDU such as VHT PPDU, HT PPDU, and non-HT PPDU? From the sentence, it may be implied that the restriction exists.	Directly specify if multi-TID A-MPDU can be carried in non-HE PPDU. From commenter's point of view, the answer is yes as long as the recipient supports multi-TID A-MPDU.	2017/1/9 9:42
8407	Po-Kai Huang	225	1 9.7.3	108	7	T	N	108.07 9.7.3	The underlined sentence does not exclude the cast that HE MU PPDU solicits one immediate response not carried in an HE trigger-based PPDU and solicits one immediate response carried in an HE trigger-based PPDU.	Add descriptions to exclude the case.	2017/1/9 9:42
8408	Po-Kai Huang	225	1 9.7.3	110	38	T	N	110.38 9.7.3	In Table 9-425, there is a description for Ack Policy equal to Ack request. However, in table 9-9, there is no description for Ack policy equal to "Ack request". Is Ack request a new policy or should it be revised as normal Ack? Same comment for the description in Note 1.	Clarify what is Ack policy equal to Ack request.	2017/1/9 9:42
8409	Po-Kai Huang	225	1 9.7.3	111	45	T	N	111.45 9.7.3	It should be "One Ack or Block Ack frame is ..." for the description of no HE BSS.	Revise the sentence as suggested by the comment.	2017/1/9 9:42
8410	Po-Kai Huang	225	1 10.3.2.8a.3	117	29	T	N	117.29 10.3.2.8a.3	The fourth bullet of the condition for responding to MU-RTS is covered by the second bullet.	Combine fourth bullet and second bullet.	2017/1/9 9:42

8411	Po-Kai Huang	225	1 10.3.2.8a.3	117	21	T	N	117.21 10.3.2.8a.3	The description of ED-based CCA and virtual CS in the second bullet of the condition for responding to MU-RTS seems to be redundant because the UL MU CS section has already included ED-based CCA and virtual CS.	Remove the description of ED-based CCA and virtual CS or turn the description of ED-based CCA and virtual CS to a note.	2017/1/9 9:42
8412	Po-Kai Huang	225	1 10.3.2.10.2	119	24	T	N	119.24 10.3.2.10.2	The description "defined by the UL trigger information" seems to be redundant. Further, there is really no specific definition for UL trigger information.	delete the description "defined by the UL trigger information". Similarly, Figure 10-12a should be reivsed.	2017/1/9 9:42
8413	Po-Kai Huang	225	1 10.3.2.10.3	120	2	T	N	120.02 10.3.2.10.3	For the format allowed for Multi-STA BA, can we just say Multi-STA BA transmission are allowed in any PPDU format except HE TB PPDU? It seems that this is the intention.	Revised as in comment.	2017/1/9 9:42
8414	Po-Kai Huang	225	1 10.3.2.10.3	120	5	T	N	120.05 10.3.2.10.3	The OFDMA part in OFDMA HE MU PPDU is redundant.	Remove OFDMA from OFDMA HE MU PPDU.	2017/1/9 9:42
8415	Po-Kai Huang	225	1 9.3.1.23	42	16	T	N	42.16 9.3.1.23	It is possible that AP may not have enough time to decode multiple responses, which can be up to 32-36 responses, to Trigger frame simultaneously and continue the following transmission in SIFS. AP can choose to separate the Trigger process to Multiple Trigger frame, but this will then increase the overhead.	Add a field called required MAC padding duration in Trigger Dependent Common Info every variant of Trigger frame except MU-RTS. A STA that receives the field must have MAC padding larger than or equal to the indicated required MAC padding duration. As a result, AP can have enough time. Add description that AP should make sure that STA has enough time to include the required response such as BSR.	2017/1/9 9:42
8416	Robert Stacey	225	1 9.4.2.218.3	83	40	T	Y	83.40 9.4.2.218.3	No "Doppler procedure" has been defined so it is not possible to determine how this bit should be set.	Return bit to the pool of reserved bits	2017/1/9 9:42
8417	Robert Stacey	225	1 28.2.2	223	51	T	Y	223.51 28.2.2	What is "the doppler effect" and how should it be considered? The spec does not define such an effect and there is no text defining a) how this a prameter should be set and b) what the PHY does with this parameter	Remove the DOPPLER parameter from Table 28-1	2017/1/9 9:42
8418	Robert Stacey	225	1 28.3.10.7.2	275	33	T	Y	275.33 28.3.10.7.2	What is "Doppler mode"? Such a mode is not defined and thus it is not possible to determine how this bit is set	Return bit to the pool of reserved bits	2017/1/9 9:42
8419	Robert Stacey	225	1 28.3.10.7.2	277	35	T	Y	277.35 28.3.10.7.2	What is "Doppler mode"? Such a mode is not defined and thus it is not possible to determine how this bit is set	Return bit to the pool of reserved bits	2017/1/9 9:42
8420	Robert Stacey	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	What is a "high doppler mode of transmission" and why does this need to be indicated in the Trigger frame? There is no corresponding field in the HE trigger-based PPDU so nothing to set there.	Remove Doppler field from the Common Info field	2017/1/9 9:42
8421	Robert Stacey	225	1 27.16.3	207	1	T	Y	207.01 27.16.3	The QPT procedure is incomplete. It appears to be a frame exchange between a station and the AP that performs no function. From the name it appears to require that some undefined set of STAs not transmit for a certain amount of time. How a STA determines if is part of this set is not defined. What the AP does as a result of a setup exchange is not defined either.	Remove feature by deleting 9.4.2.223-225 and 27.16.3	2017/1/9 9:42
8422	Robert Stacey	225	1	80	10	T	Y	80.10	The QPT Support capability is not clear. QPT operation is not defined.	Remove the QPT Support field	2017/1/9 9:42
8423	Robert Stacey	225	1 10.43.1	138	6	T	N	138.06 10.43.1	"= don't care": if it's a don't care why mention the the field?	Change to "Request TWT, Suggest TWT or Demand TWT"	2017/1/9 9:42
8424	Robert Stacey	225	1 10.43.1	137	55	E	N	137.55 10.43.1	Markup on Table 10-19a is unnecessary since editing instruciton is "insert"	Remove markup	2017/1/9 9:42
8425	Robert Stacey	225	1 10.43.1	137	59	T	N	137.59 10.43.1	The first row after the heading row in Table 10-19a appears to be part of the heading. However, the relationship between the first heading row and this row is not clear.	Clarify menaing of first body row in table	2017/1/9 9:42

8426 Robert Stacey	225	1 9.2.4.6.4.5	25	34	T	Y	25.34 9.2.4.6.4.5	The two methods for reporting queue size (Queue Size field in QoS Data and BSR A-Control) are not compatible with each other. The Queue Size in QoS Data is reported per TID while Queue Size in BSR A-Control is reported per AC. An AP collecting Queue Size per TID would not know how to partition the BSR information (since it is the sum of the queue size for two TIDs). An AP that collects queue size per AC may make inaccurate allocations to STAs that do not support multi-TID aggregation or if the AP itself cannot receive multi-TID A-MPDUs.	Change the BSR so that it either reports queue size per TID or simplify it so that it just indicates which Acs have traffic.		2017/1/9 9:42
8427 Robert Stacey	225	1 9.2.4.6.4.5	25	34	T	Y	25.34 9.2.4.6.4.5	The BSR is poorly designed. Its only purpose is to report queue state for traffic not in the current aggregate (since queue size in QoS Control can do it for traffic in the aggregate). Even so, it is not strictly necessary since that status could be collected through multi-TID aggregation or through a separate access. It is not compatible with queue size reported in QoS Control since it reports per AC and has a queue size range that different from queue size in QoS Control.	Redesign BSR so that it reports queue size in a manner compatible with queue size in QoS Control. Say 3 fields of 8-bits representing the queue sizes of TIDs in each of the ACs not represeted by the TID of the QoS Data frame carrying the BSR. Queue size reported in a manner compatible with queue size in QoS Control (units of 256 octets). The TIDs reported in sets: say {1, 0, 4, 6} and {2, 3, 5, 7}, so that if the QoS Data frame is for a TID in set 1 the queue size for other TIDs are in set 1.		2017/1/9 9:42
8428 Robert Stacey	225	1 28.3.16	344	33	T	N	344.33 28.3.16	Either the HE NDP PPDU is a distinct PPDU format or it isn't. If it is a distinct format it should be listed with the other formats in 28.3.4. If it is a special case of the HE SU PPDU then just describe it as such (in 28.3.4). During the comment period we had it then we removed it then we added it again but in a different place. Let's decide.	Remove clause 28.3.16. Add a sentence to 28.3.4 (PPDU formates): "The HE NDP PPDU is an HE SU PPDU with a zero length Data field and a 4 us Packet Extension field"		2017/1/9 9:42
8429 Robert Stacey	225	1 9.4.2.218.2	80	4	T	N	80.04 9.4.2.218.2	The BSRP A-MPDU Aggregation capability is unclear. What does it mean for a STA to accept a BSRP Trigger frame? If the software doesn't crash does that constitute acceptance? What exactly is the condition for setting the field? The STA must be able to "accept" the BSRP Trigger frame when it is aggregated with at least one control frame AND at least one Data frame and at least one Management frame? What if it "accepts" the BSRP Trigger frame but only in a S-MPDU. Or Only if aggregated with data (not control and nt management)?	Clarify the conditions for indicating support		2017/1/9 9:42
8430 Robert Stacey	225	1 9.4.2.218.2	80	17	E	N	80.17 9.4.2.218.2	(A-)MPDU: the bracketed (A-) is unnecesary. The A-Control field is present in an A-MPDU by virtue of being present in an MPDU. It doesn't appear in an A-MPDU withing being in an MPDU.	Remove "(A-)"		2017/1/9 9:42
8431 Robert Stacey	225	1 9.4.2.218.2	80	16	T	N	80.16 9.4.2.218.2	Why do we need to signal a capability for generating a BQR? If a STA is capable of generating a BQR it could just generate one. We don't have capability settings for all the things STAs are capable of generating. Why is this one special?	Remove reference to non-AP STA usage. Change to "Indicates that the AP is will use information in the BQR A-Control subfied when scheduling STAs for UL operation"		2017/1/9 9:42

8432	Robert Stacey	225	1 27.4	157	16	T	Y	157.16 27.4	The Block Acknowledgement subclause is poorly written. The overview section should provide an overview and define the relationship to HT-immediate block ack.	Introduce the block ack extensions in the overview (or intro) subclause. Give the new procedure a name (e.g., HE-immendiate block ack). Ennumerate the extnesions (e.g., An HE extension to the block ack feature, called HE-immeidate block ack, is defined in 27.4.2, 27.4.3 and 27.4.4. HE-immeidate block ack builds on the features defined for HT-immediate block ack, with the following extensiosn: 1) Support for a Multi-STA BlockAck frame, 2) Support for a Multi-STA BlockAckReq (MU-BAR), 3) Additional options for the block ack scoreboard size, ...". Move the requirements into the subsequent subclauses.		2017/1/9 9:42
8433	Robert Stacey	225	1 10.5	122	31	T	N	122.31 10.5	The term "static fragmention" is not descriptive of the characteristic being descibed. It is not the whole procedure that is different, it is just the requirement for each fragment having the same number of octets that changes.	Name the charactreristic not the procedure: uniformly fragmented MSDU or MMPDU and non-uniformly fragmented MSDU or MMPDU. Since we are now defining a term, remove all the "shalls". The shalls apply to the implementation so we make an additional shall statement against the STA once the term has been defined. Change to read: "With a uniformly fragmented MSDU or MMPDU, the length of each fragment consists of an equal number of octets for all fragments except the last, which may be smaller. The length of each fragment is an even number of octets, except the last fragment, which may be either an even or an odd numver of octets. The length of each fragment is never larger than dot11FragmentationThreshold unless security encapsulation is invoked for the MPDU. If security encapsulation is invoked for the MPDU, then the MPDU shall be expanded by the encapsulation overhead		2017/1/9 9:42
8434	Robert Stacey	225	1 27.3.1	152	41	T	N	152.41 27.3.1	"An HE STA supports the static fragmentation procedure...". The procedure that is supported by an HE STA is the fragmentation procedure, not the static fragmentation procedure. What is called "static fragmetnation" is just a small part of that procedure (i.e., the genreation of uniformly sized fragments).	Change to read "An HE STA supports the fragmentation procedure defined in 10.2.7, ..."		2017/1/9 9:42
8435	Robert Stacey	225	1 27.3.2	152	55	T	N	152.55 27.3.2	In 10.5 there is a statement referencing conditions defined in 27.3.2 that need to be met. The single paragraph in 27.3.2 is a mixture of conditions, a statement permitting fragmentation of A-MSDUs and a procedure for fragmenting where the length of each fragment is not uniform. Separate the conditions from the other statements.	Define a non-uniformly fragmentated MSDU, A-MSDU or MMPDU: "With a non-uniformly fragmented MSDU, A-MSDU or MMPDU, the length of each fragment is not necessarily the same. The length of the first fragment is greater than or equal to the minimum fragment size indicated in the Minimum Fragment Size subfield of the HE Capabilities Information field in the HE Capabilities element sent by the recipient STA. If the length of the MSDU, A-MSDU or MMPDU is less than the minimum fragment size, then the MSDU, A-MSDU or MMPDU is not fragmented." And then define the conditions under which it can be used: "An HE STA may non-uniformly fragment an MSDU, A-MSDU or MMPDU provided the following conditions are met: 1) The recipient STA has indicated support for level 1, level 2 or level 3 fragmentation in the HE Fragmentation Support subfield of the HE Capabilities		2017/1/9 9:42

8436 Robert Stacey	225	1 27.3	152	36	T	N	152.36 27.3	The new fragmentation procedure is poorly written and needs some structure.	Structure 27.3 as follows. An introductory subclause that defines how the existing procedure applies and what is new (non-uniformly fragmented MSDUs and MMPDUs, fragmetation of an A-MSDU, fragmentation under a block ack agreement). Then define the conditions under which the new procedures apply. Then define the new procedures.	2017/1/9 9:42
8437 Robert Stacey	225	1 27.3.3.1	153	16	T	N	153.16 27.3.3.1	Statement does not make sense. "transmitting an MPDU or A-MPDU": sending an A-MPDU that does not contain a MPDU is silly. A fragment is an MPDU by definition (see REVmc/D8.0 P1306L44) so an MPDU cannot contain a fragment. "Shall solicit an immediate response" is incomplete. What is the immediate response? My jokes solicit an immediate reponse, usually a groan. "For each of the fragments in the MPDU" is non-sensisical since a fragment is an MPDU and it is the MSDU, A-MSDU or MMPDU that is in multiple pieces. How does the STA do the soliciting? If I've fragmented an Action No Ack and what to send it? Is it no longer possible to send it or do I just need to use a different procedure?	Fix	2017/1/9 9:42
8438 Robert Stacey	225	1 27.3.3.1	153	22	T	N	153.22 27.3.3.1	"A STA shall not transmit a fragment containing all or part of an A-MSDU". By definition, a fragment contains a "portion of an MSDU, A-MSDU or MMPDU" (see P152L55). The constraint on A-MSDU size in Table 9-19 applies to the A-MSDU not the fragment. So the statement is unncessary (the fragment can never be bigger than the A-MSDU).	Delete paragraph "A STA shall not transmit a fragment..."	2017/1/9 9:42
8439 Robert Stacey	225	1 27.3.3.1	153	26	T	N	153.26 27.3.3.1	The NOTE is unrelated to any of the nearby text and simple makes a reference to another statement elsewhere	Delete NOTE	2017/1/9 9:42
8440 Robert Stacey	225	1 27.3.3.1	153	29	T	N	153.29 27.3.3.1	"receive explicit indications in response frames" is way too vague. Under level 1, fragments solicit an Ack frame and "explicit indications of none received" is not posible. Under level 2, fragments are sent in order and it is not possible to send more than one fragment of an MSDU, A-MSDU or MMPDU at a time. So the statement can be reformulated to apply to the first fragment since it can never happen that a later fragment is sent without an earlier fragment being ACK'ed. Also, under level 2 you can go further. not only can you retransmit the full MSDU, A-MSDU or MMPDU, you can refragment differently. Under level 3 it is possible for fragments to be delivered out of order. Given the big differences beween the fragmentation levels as it related to refragmentation it makes sense to have separate statements for each.	Remove the statement (and NOTE) from the General subclause and add a level-specific statement to the level 2 subclause and level 3 subclause. No statement is needed in the level 1 subclause since the condition doesn't apply. The satement for the level 2 subclause only needs to reference the first fragment: "If a BlockAck frame is received in response to an A-MPDU that carries the first fragment of a MSDU, A-MSDU or MMPDU and the BlockAck frame indicates that the fragment was not received, then the MSDU, A-MSDU or MMPDU may be refragmented for retransmission." No additional statement about retransmitting the same fragment is needed since the only options are refragment or not refragment and not refragment is retransmit the same. For level 3, a more complex set of rules are needed.	2017/1/9 9:42

8441 Robert Stacey	225	1 27.3.3.1	153	41	T	Y	153.41 27.3.3.1	The statement prevents a legacy device from sending a fragment since the term dynamic fragment is so broadly defined ("A dynamic fragment is an MPDU, the payload of which carries a portion of an MSDU, A-MSDU or MMPDU"), that it covers what we consider a "legacy" fragment, too. I beleive the original author has conflated the terms dynamic fragment (the MPDU) and dynamic fragmentation (the procedures). But then the statement is circular: you shall not send a fragment using the dynamic fragmentation procedures unless you are using the dynamic fragmentation procedures.	Delete the statement. Alternatively, more accurately define "dynamic fragment". I believe that it would be better to call the thing that gets sent a "non-uniformly fragment MSDU, A-MSDU or MMPDU" (see previous comment regarding statement on P152L55). Then you can make a statement like: A STA shall not send a non-uniformly fragmented MSDU, A-MSDU or MMPDU unless it is following the procudures defined in 27.3.3.2, 27.3.3.3 or 27.3.3.4."		2017/1/9 9:42
8442 Robert Stacey	225	1 27.3.3.2	153	47	T	N	153.47 27.3.3.2	"not sent under a block ack agreement" is not compatible with baseline fragmentation. Should be "sent as a non-A-MPDU frame". Even if a block ack agreement is in place, the originator can fragment and send as long as the fragment is sent in a non-A-MPDU frame.	The only difference between the level 1 fragmentation and the baseline fragmentation procedure is the requirement on equal lengh fragments. Thus this section should reference the baseline procedure with that one exception. Delete content of subclause and replace with "An originator STA may transmit a non-uniformly fragmented MSDU, A-MSDU or MMPDU following the procedure defined in 10.2.7, 10.5 and 10.6 if the Fragmentation Support subfield in the HE MAC Capabilities Information field of the HE Capabilities element is 1." A non-uniformly fragmented MSDU, A-MSDU or MMPDU" should be defined (see previous comment regarding P152L55).		2017/1/9 9:42
8443 Robert Stacey	225	1 27.3.3.2	153	60	T	N	153.60 27.3.3.2	The value of level 1 signaling in the block ack agreement is questionable. Level 1 is supported without a block ack agreement (provided the recipient has indicated level 1 support in its HE Capabilities element). Why should putting a block ack agreement in place disable it?	Remove level 1 negotiation from the block ack agreement.		2017/1/9 9:42
8444 Robert Stacey	225	1 27.3.3.2	154	1	T	N	154.01 27.3.3.2	This is a silly statement to make. Are there other ways to generate an S-MPDU?	Delete sentence		2017/1/9 9:42
8445 Robert Stacey	225	1 27.3.3.3	154	7	T	N	154.07 27.3.3.3	Level 2 fragmentation only makes sense if there is a block ack agreement in place.	Delete 1st paragraph of subclause.		2017/1/9 9:42
8446 Robert Stacey	225	1 27.3.3.3	154	26	T	N	154.26 27.3.3.3	This is a silly statement to make. Are there other ways to generate an S-MPDU?	Delete sentence. At best it should be a NOTE.		2017/1/9 9:42
8447 Robert Stacey	225	1 27.3.3.3	154	21	T	N	154.21 27.3.3.3	This long paragraph basically says you can send a fragment under level 2 fragmentation either as a non-A-MPDU frame or in an A-MPDU. Sending fragments as a non-A-MPDU frame is what level 1 fragmenation support provides. So level 2 fragementation is level 1 plus support for sending fragments in an A-MPDU. Describe it as such.	Change to read "With level 2 dynamic fragmentation, an HE STA may send a non-uniformally fragmented MSDU, A-MSDU or MMPDU to a STA that has the Fragmentation Support subfield of the HE MAC Capabilities field in the HE Capabilities element set to 2 or 3. The STA follows the procedure defined in 10.2.7, 10.5 and 10.6 for sending the fragment in a non-A-MPDU frame. In addition, the STA may send the fragment in a A-MPDU."		2017/1/9 9:42

8448 Robert Stacey	225	1 27.3.3.3	154	35	T	N	154.35 27.3.3.3	The rules for including fragments in an A-MPDU under level 2 fragemention are not defined. For example, there should be a rule preventing two fragments of the same MSDU being included. There should also be a rule that the next fragment can only be included once the previous fragment has been acknowledged.	Add the statement: "An originator STA shall not include more than one fragment of an MSDU, A-MSDU or MMPDU in an A-MPDU." Add the statement: "A fragment that is not the first fragment of an MSDU, A-MSDU or MMPDU shall only be sent if the previous fragment of the MSDU, A-MSDU or MMPDU has been acknowledged. NOTE--Fragments are sent in order of lowest fragment number to highest fragment number as defined in 10.5."	2017/1/9 9:42
8449 Robert Stacey	225	1 27.3.4.1	155	12	T	N	155.12 27.3.4.1	The fragmentation support nuances are not reflected in the MIB variable. The MIB variable is binary while the Fragment Support field has 4 values.	Delete the MIB variable or make it reflect the STA fragmentation capabilities.	2017/1/9 9:42
8450 Robert Stacey	225	1 27.3.4.1	155	12	T	N	155.12 27.3.4.1	Requiring consistent settings on the MIB variable and Fragmentation Support field is all good and well, but it is not sufficient. The STA has certain capabilities based on choices made by the implementer. A peer STA learns of these from the HE Capability element. A management station learns of these capabilities using the simple network management protocol ("reading the MIB"). So the setting of the HE Capabilities element and the setting of the "OptionImplemented" MIB objects must trace back to the implemented support.	Change the 1st paragraph to read: "An HE STA shall set the Fragmentation Support field in the HE MAC Capabilities Information field of the HE Capabilities element as follows: - Set to 1 if... - Set to 2 if ..., Set to 3 if ..., - Otherwise set to 0" Then add a subsequent paragraph: "An HE STA that sets Fragmentation Support field to 0 shall set the dot11HEDynamicFragmentationImplemented to false. Otherwise, the HE STA shall set the dot11HEDynamicFragmentationImplemented to true."	2017/1/9 9:42
8451 Robert Stacey	225	1 27.3.4.1	155	29	T	N	155.29 27.3.4.1	"of a number of outstanding MSDUs" is inconsistent with "The term outstanding refers to an MPDU that contains...". An MSDU is not an MPDU.	Fix	2017/1/9 9:42
8452 Robert Stacey	225	1 27.3.4.1	155	47	T	N	155.47 27.3.4.1	"all or part": by definition, a fragment contains part of an A-MSDU (see P152L55). Also, the requirement is not clear on whether the "of arbitrary length" applies to the fragment or the A-MSDU.	Change to read: "A STA that has dot11AMSDUFragmentationOptionImplemented true shall be capable of receiving a fragmented A-MSDU where the length of the A-MSDU is less than or equal to the maximum A-MSDU size as specified in Table 9-19 (Maximum data unit sizes (in octets) and durations (in microseconds))."	2017/1/9 9:42
8453 Robert Stacey	225	1 27.3.4.1	155	27	T	N	155.27 27.3.4.1	It is not clear how the Nmax requirement is applied. Are there two Nmax, one for MSDUs and one for MMPDUs? What about A-MSDUs? It seems that we really need a reserved buffer for MMPDUs otherwise outstanding MSDUs/A-MSDUs could block transmission of a critical MMPDU, or, at least, make delivery complicated by Nmax considerations (the STA could always send as a fragment burst). Also, there are really two requirements here: the implementation requirement and the cabability signaling requirement.	Break this into two separate requirements, an implementation requirement and a signaling requirement. Ensure that there is a always buffer space for a fragmented MMPDU. Change to read: "A recipient STA shall support the concurrent reassembly of Nmax outstanding fragmented MSDUs and A-MSDUs (if supported) from the same transmitting STA where Nmax is either in the set 1, 2, ..., 2^6 or is unlimited. A fragmented MSDU or A-MSDU is outstanding if delivery of the MSDU or A-MSDU has not yet been completed (i.e., the acknowledgment of the final fragment has not been received and the MSDU or A-MSDU has not been discarded due to retries, lifetime, or for some other reason). The recipient STA shall indicate Nmax in the Maximimum Number of Fragmented MSDUs subfield in the HE MAC Capabilities Information field in the HE Capabilities element. The recipient STA	2017/1/9 9:42

8454 Robert Stacey	225	1 27.3.4.2	155	56	T	N	155.56 27.3.4.2	The statement "MPDU or S-MPDU that carries one or more dynamic fragments" is non-sensical since a fragment is an MPDU per definition. We already have specific rules as to when an Ack frame is the appropriate response so this whole sentence is unnecessary.	Delete sentence.	2017/1/9 9:42
8455 Robert Stacey	225	1 27.3.4.2	155	58	T	N	155.58 27.3.4.2	There is no need to reference Ack frame and BlockAck frame response rules for fragments any more than there is a need to reference these rules for MPDUs that are not fragments. There are special rules for generating the block ack bitmap, but that belongs in the Block Acknowledgement subclause.	Delete sentence.	2017/1/9 9:42
8456 Robert Stacey	225	1 27.3.4.2	155	56	T	N	155.56 27.3.4.2	The statement "MPDU or A-MPDU that carries one or more dynamic fragments" is non-sensical since a fragment is an MPDU by definition. All the requirements in this subclause have to do with acknowledgement. The Ack frame rules for fragments in the first bullet are the same as the Ack frame rules for non-fragments and covered by the general rules for MPDU acknowledgement (nothing special happens if the MPDU is a fragment). There are special rules for handling the block ack bitmap related to fragmentation, but that belongs in the Block Acknowledgement subclause.	Delete the first paragraph.	2017/1/9 9:42
8457 Robert Stacey	225	1 27.3	152	36	E	N	152.36 27.3	To maintain consistency between the baseline procedures and the new Clause 27 procedures, reorganize subclause 27.3 (Fragmentation). The baseline refers to fragmentation for the "originator" procedure and defragmentation for the "recipient" procedure.	Change heading of 27.3 (Fragmentation) to "Fragmentation and defragmentation". Change the heading of subclause 27.3.3 (Procedure at the originator) to "Fragmentantation". Change the heading of subclause 27.3.4 (Procedure at the recipient) to "Defragmentation". Remove the heading 27.3.2 (Support and requirements for dynamic fragmentation) and combine content with 27.3.1 (General).	2017/1/9 9:42
8458 Robert Stacey	225	1 27.3.4.3	156	31	T	Y	156.31 27.3.4.3	Flushing the reassembly buffer of incomplete MSDUs, A-MSDUs and MMPDUs that will never be completed is more involved than simply comparing sequence numbers against BlockAckReq frame's starting sequence number. There are other ways in which the originator can indicate to the recipient that an MSDU will never complete. See the rules in 10.24.7.6.2 (Operation for each received Data frame) for flushing the reorder buffer on receipt of a QoS Data frame. Similar rules are needed for the reassmebly buffer.	Develop a comprehensize set of rules for flushing the reassembly buffer of incomplete MSDUs/A-MSDUs that will never be completed. For example, the originator can indicate that an MSDU with SN=x will never be completed (because the MSDU has been discarded) by sending a QoS Data frame with SN=x+WinSizeB.	2017/1/9 9:42
8459 Robert Stacey	225	1 27.4.1	157	21	T	N	157.21 27.4.1	"An HE STA can use ...": the conditions for Compressed BlockAck frame and Multi-STA BlockAck frame use are more elaborate than this. The statement carries no value.	Delete sentence.	2017/1/9 9:42

8460	Robert Stacey	225	1 27.4.1	157	22	T	N	157.22 27.4.1	"An HE STA shall support generation...if HT-immediate BA is supported...": An HE STA is an HT STA. HT-immediate block ack support is mandatory for an HT STA hence it is mandatory for an HE STA thus the "if HT-immediate..." condition is unecessary. Making the "generation" of a particular frame type mandatory is meanlingless. Frame types are "generated" to meet protocol requirements, for example, a Compressed BlockAck frame is sent in response to Compressed BlockAckReq frame so there is no need for a standalone statement on the generation of such frames. If a STA supports a protocol (such as HT-immediate block ack) it supports the generation of the frames required to implement that procotol. SImilarly, statements regarding the generation of Multi-STA BlockAck frame is unnecessary.	Delete 2nd and 3rd sentence of the first paragraph.		2017/1/9 9:42
8461	Robert Stacey	225	1 27.4.1	157	37	T	N	157.37 27.4.1	"An HE STA may send a Multi-STA BlockAck frame in response to an HE trigger-based PPDU.": This statement is incomplete. It may do that but only if certain conditions are met and, in fact, it shall do that if those conditions are met. It cannot, for example, do that if the HE trigger-based PPDU carries frames a management frame of type Action No Ack.	Delete the first sentence: the conditions under which a Multi-STA BlockAck frame are transmitted need to be more explicitly stated.		2017/1/9 9:42
8462	Robert Stacey	225	1 27.4.1	157	37	T	N	157.37 27.4.1	"A Multi-STA BlockAck frame contains one or more...": the states are obvious from a glance at the frame format.	Delete the second sentence.		2017/1/9 9:42
8463	Robert Stacey	225	1 27.4.1	157	39	E	N	157.39 27.4.1	"... with different AID subfield values" is cumbersome.	Change the sentence to read: "An HE AP that sends a Multi-STA BlockAck frame where the STA Info fields address more than one STA shall set the RA field to the broadcast address."		2017/1/9 9:42
8464	Robert Stacey	225	1 27.4.1	157	41	E	N	157.41 27.4.1	"...or with the same values of the AID subfield in Per STA Info subfields...": poor grammar	Change the sentence to read: "An HE AP that transmits a Multi-STA BlockAck frame where the STA Info fields address a single STA shall set the RA field to either the address of that STA or the broadcast address."		2017/1/9 9:42
8465	Robert Stacey	225	1 27.4.1	157	43	T	N	157.43 27.4.1	The last sentence in this paragraph is already covered by a previous statement at P157L28.	Delete sentence.		2017/1/9 9:42
8466	Robert Stacey	225	1 27.4.1	157	48	T	N	157.48 27.4.1	What does it mean to support "Multi-STA BlockAck"? The term is not defined. "shall examine": this is not testable so the shall is not appropriate. There is no such thing as a "Multi-STA". There is no such thing as a BA agreement.	Delete the first sentence and change the second to read: "A STA that receives a Multi-STA BlockAck frame performs the following operations for each BA Information field in the Multi-STA BlockAck frame that is addressed to it."		2017/1/9 9:42
8467	Robert Stacey	225	1 27.4.1	157	56	T	N	157.56 27.4.1	The introductory sentence says that "a STA performs the following", but this (second) bullet does not descibe an action.	The meaning of the fields in a frame are defined in the frame formats section. This is a behavioral clause and should define an action. Fix.		2017/1/9 9:42
8468	Robert Stacey	225	1 9.3.1.9.7	37	20	E	N	37.20 9.3.1.9.7	We have an MU-BAR and MU-RTS but we have a Multi-STA BlockAck. Let's be consistent: is it multi-user or multi-STA?	Change the name of the Multi-STA BlockAck frame to MU BlockAck frame.		2017/1/9 9:42

8469	Robert Stacey	225	1 27.4.1	157	61	T	N	157.61 27.4.1	The rules for responding to a BlockAckReq frame are defined in 10.24.7 (more accurately 10.24.7.5) but the rules for responding to an MU-BAR frame are not defined there. It seem that the sentence needs to be two sentences: how to respond to a BlockAckReq frame and another on how to respond to an MU-BAR frame. Also this sentence references itself: if the repsonse is defined in this subclause there should be no need to reference it. References statements should not contain shall statements; references are informative and help the reader find the normative text. A statement like "shall respond with a BlockAck frame as defined in" does not account for the full suite of options in 10.24.7 (10.24.7.5 only requires a reponse if Address 1 matches). The reference should be to 10.24.7.5 not 10.24.7 since it is only 10.24.7.5 that deals with responding to a BlockAckReq frame.	Change to read "An HE STA responds to a BlockAckReq frame as defined in 10.24.7.5 (Generation and transmission of BlockAck frames by an HT STA or DMG STA)."		2017/1/9 9:42
8470	Robert Stacey	225	1 9.3.1.9.1	34	11	T	N	34.11 9.3.1.9.1	Since the Multi-TID, Compressed Bitmap and GCR Mode subfields no longer exist, changes are needed throughout to replace references to these subfields with references to the BA Type subfield.	Update 10.24.6 and any other occurances.		2017/1/9 9:42
8471	Robert Stacey	225	1 27.4.3	159	26	T	N	159.26 27.4.3	A change to the block ack setup procedure is needed to account for the potentially larger window size. A statement in REVmc/D8.0 P1384L45 limits the transmit window size to 64: "If the value in the Buffer Size field of the ADDBA Response frame is smaller than the value in the ADDBA Request frame, the originator shall change the size of its transmission window (WinSizeO) so that it is not greater than the value in the Buffer Size field of the ADDBA Response frame and is not greater than the value 64."	Change the statement in REVmc to read: "If the value in the Buffer Size field of the ADDBA Response frame is smaller than the value in the ADDBA Request frame, the originator shall change the size of its transmission window (WinSizeO) so that it is not greater than the value in the Buffer Size field of the ADDBA Response frame and is not greater than lhe value 64 if the sender of the ADDBA Response frame is a non-HE STA and not greater than 256 if the sender of the ADDBA Response frame is an HE STA."		2017/1/9 9:42
8472	Robert Stacey	225	1 9.3.1.9.7	37	31	E	N	37.31 9.3.1.9.7	The Per STA Info field is not really per STA since there could be multiple addressed to the same STA.	Change the field name to STA Info throughout.		2017/1/9 9:42
8473	Robert Stacey	225	1 9.3.1.9.7	37	37	E	N	37.37 9.3.1.9.7	"Per" in the Per AID TID Info field name is not meaningful.	Change the field name to AID/TID Info throughout. BTW, we have various conjuction styles in field names (e.g., underscore as in TID_INFO field, slash as in Duration/ID field and +HTC/Order field, lower case 'and' as in VHT-MCS and NSS Set field, uppercase 'And')		2017/1/9 9:42
8474	Robert Stacey	225	1 9.3.1.9.7	38	13	T	Y	38.13 9.3.1.9.7	"The Ack Type field is not set to 1 when responding to a BlockAckReq frame..." responding to a BlockAckReq frame with a Multi-STA BlockAck frame is not possible.	Change to read: "The Ack Type field is not set to 1 when responding to an MU-BAR frame."		2017/1/9 9:42
8475	Robert Stacey	225	1 9.3.1.9.7	38	4	T	N	38.04 9.3.1.9.7	The TID value for a management frame acknowledgement is descriptive and shouldn't be a NOTE.	Change from a NOTE to a statement that reads: "		2017/1/9 9:42
8476	Robert Stacey	225	1 9.3.1.9.7	38	22	E	N	38.22 9.3.1.9.7	The Block Ack Starting Sequence Control and Block Ack Bitmap subfields are either both present or both absent. No need for separate rows in Table 9-24b. Also they are not optional fields as described in the column heading.	Simplify the table. Change the heading to the 3rd column to "Block Ack Starting Sequence Control and Block Ack Bitmap subfields". For each row simply indicate "Present", "Not Present" or "N/A".		2017/1/9 9:42

8477	Robert Stacey	225	1 9.3.1.9.7	38	31	T	N	38.31 9.3.1.9.7	"context" column: A-MPDUs don't solicit anything; the MPDUs in the A-MPDU do the soliciting. Also, there is no way for a BlockAckReq frame to solicit a Multi-STA response so this statement should be deleted.	Change to read: Sent in response to an A-MPDU that carries a QoS Null frame or one or more QoS Data frames of the same TID where the Ack Policy subfield is MU Ack."	2017/1/9 9:42
8478	Robert Stacey	225	1 9.3.1.8.2	33	61	T	N	33.61 9.3.1.8.2	Meaning needs to be assigned to the nonzero values of the Fragment Number subfield or the strikeout removed	Remove the strikeout	2017/1/9 9:42
8479	Robert Stacey	225	1 9.3.1.9.7	36	20	T	N	36.20 9.3.1.9.7	Only 4 values of the 16 available values of the Fragment Number subfield have any meaning, the other 12 values are reserved. The table can be simplified. Also, the meaning of Fragmentation Level 3 ON/OFF is not clear since it doesn't relate to any other text in this subclause.	The table is better presented in 3 columns (Fragment Number subfield, Block Ack Bitmap subfield length, Block Ack Bitmap subfield interpretation). The rows would be {0, 8 octets, <interpretation>}, {4, 32 octets, <interpretation>}, {1, 8 octets, <interpretation>}, {5, 32 octets, <interpretation>}, {Otherwise, -, Reserved) and <interpretation> is substituted by the text in paragraphs below. For example, the <interpretation> for Fragment Number = 0 is "Indicates the receive status of 64 MSDUs and A-MSDUs. Each bit that is 1 indicates successful reception of a single MSDU or A-MSDU or fragment of an MSDU or A-MSDU with the first bit corresponding to...".	2017/1/9 9:42
8480	Robert Stacey	225	1 9.3.1.9.7	36	61	T	N	36.61 9.3.1.9.7	With level 2 fragmentation, each bit does not necessarily acknowledge the successful reception of a single MSDU or A-MSDU. It could acknowledge a fragment thereof.	Change to read: "...acknowledges the successful reception of a single MSDU or A-MSDU or fragment thereof in the order of sequence number..."	2017/1/9 9:42
8481	Robert Stacey	225	1 27.4.2	158	37	T	N	158.37 27.4.2	"TID value of that MPDU": Not all MPDUs have a TID field. "that requires acknowledgement": needs to be more specific. "receiving a single MPDU": this appers to refer to S-MPDU (i.e., MPDU in an A-MPDU subframe with EOF = 1). "A single MPDU" is grammetically equivalent to "an MPDU".	Fix	2017/1/9 9:42
8482	Robert Stacey	225	1 27.4.2	158	21	E	N	158.21 27.4.2	The subclause heading is unnecessary long.	Change heading to "STA Info field format selection in a Multi-STA BlockAck frame"	2017/1/9 9:42
8483	Robert Stacey	225	1 27.4.4.1	160	34	T	N	160.34 27.4.4.1	The EOF field is not what solicits an immediate response. It is also inaccurate (The EOF field is set in the padding delimiters at the end of an A-MPDU). EOF=1 with Lengh > 0 is the equivalent of not setting the Aggregation field in an HT PPDU.	Delete "and the EOF field setting"	2017/1/9 9:42
8484	Robert Stacey	225	1 27.4.4.1	160	31	T	N	160.31 27.4.4.1	The fact that a STA can send a PPDU and get a variety of responses dependent on the frame carried in the PPDU is a truism and does not need stating. The statement specifically related to QoS Data frames and QoS Null frames is incomplete. No response is also a possibility.	Delete sentence.	2017/1/9 9:42

8485 Robert Stacey	225	1 9.3.1.23	41	34	E	N	41.34 9.3.1.23	The terminology for the various Trigger frame variants is inconsistent throught the draft.	Terminology similar to the BlockAck frame should be adopted. It is worth keeping "Trigger" in the name since they all serve that purpose: allocate resporses and trigger a synchronized response. We should use the name "Trigger frame" for the generic case (where the variant does not matter) and then the names "Basic Trigger frame", "Beamforming Report Trigger frame", "MU-BAR Trigger frame", "MU-RTS Trigger frame", "Buffer Status Report Trigger frame", "GCR MU-BAR Trigger frame", "Bandwidth Query Report Trigger frame". Note we can drop "Poll" from the name since "Trigger" is symantically equivalent.		2017/1/9 9:42
8486 Robert Stacey	225	1 10.28.3	136	44	T	N	136.44 10.28.3	Non-HE STAs don't send Multi-STA BlockAck frames so the edits here don't make sense.	Remove the Multi-STA Block Ack insertion.			2017/1/9 9:42
8487 Robert Stacey	225	1 27.4.4.2	160	53	T	N	160.53 27.4.4.2	This convention of prefixing MPDU with a (A-) adds ambiguity. Presumably the intent is to apply the requirement to both MPDUs and A-MPDUs. However, MPDUs and A-MPDUs are very different beasts. An A-MPDU is a framing structure that encapsulates MPDUs. The "at most one of the MPDUs" is a very different statement from "at most one of the A-MPDUs". Also, an A-MPDU does not have an Ack Policy subfield. Nor do most MPDUs for that matter.	Change the statement so that it refers to frames that have an Ack Policy subfield.			2017/1/9 9:42
8488 Robert Stacey	225	1 27.4.4.2	160	52	T	N	160.52 27.4.4.2	SU PPDU is not a defined	Create a definition in 3.2			2017/1/9 9:42
8489 Robert Stacey	225	1 27.4.4	160	27	T	N	160.27 27.4.4	We don't need shall rules to prevent implementors from doing stupid things at the initiator side (like a rule to not solicit an immediate response from more than one STA). What we need are rules at the responder side that prevent bad things happening.	Add a statement that clarifies when an HE trigger-based PPDU is used as a response to HE MU PPDU and when an SU PPDU is is used "An HE STA transmits an HE trigger-based PPDU in response to an HE MU PPDU (provided the conditions in xxx [CCA, NAV, etc.] are met) when the A-MPDU in the HE MU PPDU that is received by the STA includes a Trigger frame or a QoS Data frame or QoS Null frame with a UL MU Scheduling Response A-Control field. An HE STA transmits an SU PPDU in response to an HE MU PPDU if the A-MPDU in the HE MU PPDU that is received by the STA includes an MPDU that solicits an immediate response and the A-MPDU does not include any of the following: 1) a Trigger frame 2) a QoS Data frame or QoS Null frame with a DL MU Scheduling Response A-Control field 3) A QoS Data frame or QoS Null frame where the Ack Policy subfield in the QoS Control field is MU Ack 4)			2017/1/9 9:42
8490 Robert Stacey	225	1 27.4.4.2	160	52	T	N	160.52 27.4.4.2	DL MU PPDU is not defined. It could be HE MU PPDU or VHT PPDU with Group ID between 1 and 62 or both.	Change all occurances of DL MU PPDU to HE MU PPDU.			2017/1/9 9:42
8491 Robert Stacey	225	1 27.4.4.2	160	57	T	N	160.57 27.4.4.2	If DL MU PPDU includes VHT PPDU then we break backward compatibility with this requirement ("... shall not include an Action frame...").	Change all occurances of DL MU PPDU to HE MU PPDU.			2017/1/9 9:42

8492	Robert Stacey	225	1 27.4.4.2	160	58	T	N	160.58 27.4.4.2	A DL MU PPDU (= HE MU PPDU?) does not solicit an immediate response; the frames it carries do the soliciting. The list is not all inclusive, other responses might be possible. Item 1: an S-MPDU does not necessarily have an Ack Policy field; only an S-MPDU that is a QoS Data or QoS Null frame has such a field. Item 2: An A-MPDU does not have an Ack Policy. Item 3: An A-MPDU does not have an Ack Policy. How does the recipient know the A-MPDU is a multi-TID A-MPDU?	"A STA that receives an HE MU PPDU with an A-MPDU that contains QoS Data or QoS Null frames addressed to it, responds as follows: 1) If there is only one QoS Data or QoS Null frame, it is an S-MPDU and the ack policy is Normal Ack, then the STA responds with an Ack frame carried in an SU PPDU. 2) If the QoS Data or QoS Null frames have ack policy Implicit BAR and all the QoS Data and QoS Null frames are associated with the same block ack agreement, then the STA responds with a Compressed BlockAck frame carried in an SU PPDU 3) If the QoS Data and QoS Null frames have ack policy Implicit BAR and are associated with two or more block ack agreements, then the STA responds with a Multi-STA BlockAck frame carried in an SU PPDU."		2017/1/9 9:42
8493	Robert Stacey	225	1 27.4.4.4	161	33	T	N	161.33 27.4.4.4	Poorly titled subclause. An HE trigger-based PPDU does not solicit anything. It is the AP that decides what follows the HE trigger-based PPDUs (there can be more than one). It even says so in the subclause: "If the AP intends..."	The text in 27.4.4.4 and 27.4.4.5 should be in the MU operation subclauses		2017/1/9 9:42
8494	Robert Stacey	225	1 8.3.5.2.2	15	34	T	N	15.34 8.3.5.2.2	There is no need for a new STA_INDEX parameter. USER_INDEX and STA_INDEX are semantically equivalent. Let's choose one and stick with it.	Remove STA_INDEX. Update the text for USER_INDEX to include HE MU PPDU. Use same name for PHY-DATA.indication.		2017/1/9 9:42
8495	Robert Stacey	225	1	162	56	T	N	162.56	DL OFDMA With MIMO PPDU is not defined. There is no such thing as a DL OFDMA With MIMO Support field. The capability that most closely resembles this is the DL MU-MIMO On Partial Bandwidth field.	Describe in terms of TXVECTOR parameters.		2017/1/9 9:42
8496	Robert Stacey	225	1 27.5.1.2	163	3	T	N	163.03 27.5.1.2	"The Type and Subtype subfields ...may be different... ": Meaningless statement.	Remove statement		2017/1/9 9:42
8497	Robert Stacey	225	1 27.5.1.2	163	8	T	N	163.08 27.5.1.2	"Two STA-ID fields in HE-SIG_B..." We hide the PHY details behind the PHY service interface so this statement should be made in terms of the TXVECTOR parameter STA_ID_LIST. Since STA_ID_LIST has a subclause of its own (27.11.1) might as well do it there.	Define in terms of TXVECTOR parameters: "An AID shall appear only once in the TXVECTOR parameter array STA_ID_LIST." A statement regarding the 2046 entry can be made in the PHY clause itself. The TXVECTOR just needs to identify the used resources. HE-SIG-B is then built (in the PHY) using this infomation and "2046" entries added as needed.		2017/1/9 9:42
8498	Robert Stacey	225	1 3.2	3	4	T	N	3.04 3.2	The term RU is not defined and is inconsistently used. In some places it refers to a frequency segment (e.g., a 26-tone RU) and in other places it refers to something that carries the PSDU intneded for a STA (e.g., P195L50: "...that RU is set to the AID of the STA receiving the PSDU..."). In the single stream case this may not matter, but in the SU-MIMO (multi-stream) case and especially in the MU-MIMO case it does matter.	Add a definition for resource unit (RU) to 3.2. "resource unit (RU): A set of 26, 52, 106, 242, 484, 996 or 2x996 subcarriers."		2017/1/9 9:42
8499	Robert Stacey	225	1 28.3.3.2	230	6	E	N	230.06 28.3.3.2	Headings for Tables 28-3, 28-4, 28-5 and Figures 28-2, 28-3 and 28-4: HE PPDU in this context is less accurate than channel width	Change "HE PPDU" to "channel width"		2017/1/9 9:42
8500	Robert Stacey	225	1 27.6.4	179	14	T	N	179.14 27.6.4	"An HE NDP shall use the HE SU PPDU format...": An HE NDP is by definition an HE SU PPDU so the shall statement is not necessary.	Remove statement		2017/1/9 9:42

8501 Robert Stacey	225	1 27.6.4	179	14	T	N	179.14 27.6.4	"An HE STA shall transmit an HE NDP using the following TXVECTOR parameters" The shall statement is not necessary. An NDP is by definition a HE SU PPDU with a certain format so the statement needs to be descriptive.	Change to read: "The TXVECTOR parameters for an HE NDP are as follows: - FORMAT is HE_SU; - HE_LTF_TYPE is either 2x HE LTF or 4x HE-LTF; - NUM_STS indicates two or more space-time streams; etc."	2017/1/9 9:42
8502 Robert Stacey	225	1 27.6.3	179	4	T	Y	179.04 27.6.3	Even if the feedback is greater than 11454B, it may be sent in a single PPDU since the segmented report can be sent in MPDUs aggregated into a single A-MPDU. In fact, this should be the preferred way to send feedback. If there is a constraint it is on the duration of the PPDU.	We should limit options here: Require the complete report in a single MPDU or all segments of a segmented report in a single A-MPDU unless the resulting PPDU duration exceeds the duration indicated in the Duration field of the HE NDP Announcement frame (or some absolute limit). Consider applying these rules to the VHT sounding protocol as well (to minimize implementation variation).	2017/1/9 9:42
8503 Robert Stacey	225	1 27.6.3	179	4	T	Y	179.04 27.6.3	"... shall be transmitted in a single PPDU..." It may be impossible for the beamformee to meet this requirement if the report is sent in an HE trigger-based PPDU and the beamformer has not allocated sufficient resources.	Define beamformee behavior for all cases. If the beamformer allocates sufficient resources, the beamformee should return the complete beamfroming report in the HE trigger-based PPDU even if it has to segment to meet the 11454B MPDU length limit. If the beamformer has not allocated sufficient resources, the beamformee may send partial report or null (some beamformee implementations may not want to dynamically segment to meet allocaiton constraints).	2017/1/9 9:42
8504 Robert Stacey	225	1 27.6.3	179	1	T	Y	179.01 27.6.3	Despite the sublcause title, there are no rules for segmenting (or fragmenting) an HE Compressed Beamforming report.	Define rules for fragmenting an HE Compressed Beamforming report along the lines of those defined for a VHT Compressed Beamforming report (10.34.5.3 of 802.11-2016) with one change: to help the beamformer implementation, require that the Compressed Beamforming Feedback Matrix V fields not be split; pad to octet boundary and then start again in next segment.	2017/1/9 9:42
8505 Robert Stacey	225	1 11.2.2.6	142	31	T	N	142.31 11.2.2.6	A Multi-STA BlockAck frame is a BlockAck frame. The term BlockAck frame refers to all variants. The term Compressed BlockAck frame is used for the compressed variant (not BlockAck)	Remove references to Multi-STA BlockAck and use BlockAck alone	2017/1/9 9:42
8506 Robert Stacey	225	1 11.2.2.6	142	32	T	N	142.32 11.2.2.6	The RA could be a broadcast address in which case the STA is identified by the AID in the STA Info field of the Multi-STA BlcokAck frame.	Change to "...for the PS STA addressed by the BlockAck frame..."	2017/1/9 9:42
8507 Robert Stacey	225	1 11.2.2.6	142	35	T	Y	142.35 11.2.2.6	"An HE AP indicates..." The format of the QoS Info field in the QoS Capability element sent by an AP is different from the QoS Info field in the QoS Capability element sent by a non-AP STA. The Mode Data Ack subfield does not exist for an AP.	Remove statement	2017/1/9 9:42
8508 Robert Stacey	225	1 11.2.2.6	142	32	T	Y	142.32 11.2.2.6	"the HE PS STA" has no antecedent (there is a "PS STA" antencedent, but it is not the same thing as an HE PS STA for backward compatibility reasons). The More Data signaling in BlockAck frames is only supported when an HE AP is buffering BUs for an HE non-AP STA and this needs to be made clear.	Create a new paragraph that begins: "If an HE AP has buffered BUs to transmit to an HE non-AP STA, the AP may set the Mode Data field in a BlockAck frame..."	2017/1/9 9:42

8509 Robert Stacey	225	1 11.2.2.6	141	64	T	Y	141.64 11.2.2.6	An HE STA could respond to a Trigger frame with a PS-Poll frame. There is no description of how the AP should deal with a PS Poll sent this way. The current text at the cited location states that the "AP shall respond after a SIFS either with a Data or Management frame, or with an Ack frame." What about a Multi-STA BlockAck frame?	Add details for PS-Poll operation in HE trigger-based PPDUs.		2017/1/9 9:42
8510 Robert Stacey	225	1 9.4.2.200	74	11	E	N	74.11 9.4.2.200	Invalid cross-reference	Change 10.44.3.4 to 27.7.3.4		2017/1/9 9:42
8511 Robert Stacey	225	1 9.4.2.218.2	77	29	T	Y	77.29 9.4.2.218.2	TWT operation as defined in 27.7 is the appropriate flavor of TWT for an HE STA. TWT operation in 10.43 is for the baseline with the HE extensions.	Change to "as described in 27.7" (2 times)		2017/1/9 9:42
8512 Robert Stacey	225	1 9.4.2.218.2	77	34	T	Y	77.34 9.4.2.218.2	TWT operation as defined in 27.7 is the appropriate flavor of TWT for an HE STA. TWT operation in 10.43 is for the baseline with the HE extensions.	Change to "as described in 27.7" (2 times)		2017/1/9 9:42
8513 Robert Stacey	225	1 27.7.3	187	8	E	N	187.08 27.7.3	Wrong cross-reference	Change to "10.43.8"		2017/1/9 9:42
8514 Robert Stacey	225	1 9.4.2.218.2	80	38	T	N	80.38 9.4.2.218.2	aPSDUMaxLength is 6,500,631 octets. But 2^22-1 is only 4,194,303 octets. Allow the A-MPDU to reach the PSDU limit.	Allow values 1, 2 and 3		2017/1/9 9:42
8515 Robert Stacey	225	1 9.3.3.1	52	26	T	N	52.26 9.3.3.1	The Beacon frame body table (Table 9-27) does not include the MU EDCA Parameter Set element	Add it		2017/1/9 9:42
8516 Robert Stacey	225	1 9.3.3.5	53	15	T	N	53.15 9.3.3.5	The Association Response frame body table (Table 9-30) does not include the MU EDCA Parameter Set element	Add it		2017/1/9 9:42
8517 Robert Stacey	225	1 9.3.3.8	54	9	T	N	54.09 9.3.3.8	The Reassociation Response frame Body table (Table 9-32) does not include the MU EDCA Parameter Set element	Add it		2017/1/9 9:42
8518 Robert Stacey	225	1 9.3.3.11	55	6	T	N	55.06 9.3.3.11	The Probe Response frame Body table (Table 9-34) does not include the MU EDCA Parameter Set element	Add it		2017/1/9 9:42
8519 Robert Stacey	225	1 9.4.2.221	94	65	T	Y	94.65 9.4.2.221	Default MU EDCA Parameters set for non-AP STA operation are missing (compared to default EDCA parameter set in 802.11-2016 Table 9-137 & Table 9-138)	Add defaults: AC_BK: AIFSN = 7/ ECWmin = 15 / ECWmax = 15 / MU EDCA Timer = 13*8TUs AC_BE: AIFSN = 13/ ECWmin = 15 / ECWmax = 15 / MU EDCA Timer = 13*8TUs AC_VI: AIFSN = 2/ ECWmin = 15 / ECWmax = 15 / MU EDCA Timer = 13*8TUs AC_VO: AIFSN = 2/ ECWmin = 15 / ECWmax = 15 / MU EDCA Timer = 13*8TUs		2017/1/9 9:42
8520 Robert Stacey	225	1 27.5.2.6.2	173	1	T	N	173.01 27.5.2.6.2	The UL OFDMA-based random access procedure for unassociated STAs is not defined	Define		2017/1/9 9:42
8521 Robert Stacey	225	1 9.4.2.1	67	15	T	Y	67.15 9.4.2.1	A WG motion is required to allocate an element ID for the HE Capabilities element. It can't be justified and I doubt it would be approved.	Change to Element ID Extension and update format accordingly		2017/1/9 9:42
8522 Robert Stacey	225	1 9.4.2.1	67	19	T	Y	67.19 9.4.2.1	A WG motion is required to allocate an element ID for the HE Operation element. It can't be justified and I doubt it would be approved.	Change to Element ID Extension and update format accordingly		2017/1/9 9:42
8523 Robert Stacey	225	1 27.5.2.2.3	167	30	E	N	167.30 27.5.2.2.3	Invalid cross-reference	Change to 10.22.2.2		2017/1/9 9:42
8524 Robert Stacey	225	1 27.5.2.2.3	167	26	E	N	167.26 27.5.2.2.3	Invalid cross-reference	Change to 10.22.2.7		2017/1/9 9:42
8525 Robert Stacey	225	1 27.15.2	201	44	T	N	201.44 27.15.2	An HE trigger-based PPDU is ONLY sent in response to a Trigger frame. So it is not possible to send a Control frame response in the same PPDU format. Also, why can't the PPDU format be non-HT?	Fix		2017/1/9 9:42
8526 Robert Stacey	225	1 27.15.2	201	50	T	N	201.50 27.15.2	Why is it important that the Trigger frame be in an HE PPDU? If the Trigger frame is in a non-HT PPDU or VHT PPDU the response is the same. Why does it matter that it's a Control response? If it's a QoS Data response it's carried in the same PPDU format.	Fix		2017/1/9 9:42
8527 Robert Stacey	225	1 27.5.2.6	174	20	T	Y	174.20 27.5.2.6	Random access behavior for unassociated STAs is not defined	Define behavior for unassociated STAs		2017/1/9 9:42

8528	Robert Stacey	225	1 9.2.4.6.4.4	25	8	E	N	25.08 9.2.4.6.4.4	The reference to the Link adaptation using the HE variant HT Control field is erouneous	The reference shall be modified from 9.31.4 to 27.13	2017/1/9 9:42
8529	Robert Stacey	225	1 27.13	199	1	T	N	199.01 27.13	It is not clear what the receiving side (AP/STA) is expected to do with the HE-MCS / NSS values in this A-control	Need a description for receiver sode behavior in response to this A-control field (similarly to section 27.8, which details what is expected from the receiving side to do with the OMI A-control field values)	2017/1/9 9:42
8530	Robert Stacey	225	1 10.13.2	154	42	E	Y	154.42 10.13.2	wrong link to HE Capabilities Element	need to change it to 9.4.2.218 (HE Capabilities element)	2017/1/9 9:42
8531	Robert Stacey	225	1 28.2.2	222	14	T	N	222.14 28.2.2	APEP_LENGTH is defined in the range 1 to 1048575 while the maximum allowed A-MPDU in HE is 6500531 octets, need to fix it	Change to 6,500,531	2017/1/9 9:42
8532	Robert Stacey	225	1 9.3.1.23	47	34	T	N	47.34 9.3.1.23	Range mismatch	Values 0 to 90 map to -110 to -20 dBm	2017/1/9 9:42
8533	Robert Stacey	225	1 27.6.2	176	25	T	N	176.25 27.6.2	Missing TA field setting rules of NDPA in MultiBSSID is supported, as defined in Trigger frame (see section 27.5.2.2.2)	Need to add the TA field setting rules for the NDPA in case of dot11MultiBSSIDActivated is false / true, similar to the rules of trigger frame (section 27.5.2.2.2)	2017/1/9 9:42
8534	Robert Stacey	225	1 27.4.1	157	36	T	N	157.36 27.4.1	Missing TA field setting rules of Multi-STA BlockACK frame in MultiBSSID is supported, as defined in Trigger frame (see section 27.5.2.2.2)	Need to add the TA field setting rules for the Multi-STA BlockACK frame in case of dot11MultiBSSIDActivated is false / true, similar to the rules of trigger frame (section 27.5.2.2.2)	2017/1/9 9:42
8535	Robert Stacey	225	1 273.3.4	154	39	T	Y	154.39 273.3.4	Level 3 fragmentation offers no benefit over level 2 fragmentation in terms of packing efficiency and, in fact, reduces performance since it reduces the available block ack window size.	Remove the level 3 fragmentation feature or replace it with a scheme that has better performance. A scheme with better performance is the following: Assign sequence numbers to MPDUs (not MSDUs). Add a start of MSDU (SOM) flag and end of MSDU flag (EOM) to the MPDU header (the Fragment Number field bits could be reused). The block ack window size would thus not be reduced to accommodate the fragment numbering. Multiple fragments of an MSDU could be included in the same A-MPDU.	2017/1/9 9:42
8536	Rojan Chitrakar	225	1 4.3.14a	9	21	T	N	9.21 4.3.14a	non-AP STA mentioned here should be 20 MHz only non-AP STA instead?	Change "non-AP STA" to "20 MHz only non-AP STA"	2017/1/9 9:42
8537	Rojan Chitrakar	225	1 4.3.14a	9	26	T	N	9.26 4.3.14a	non-AP STA mentioned here should be 20 MHz only non-AP STA instead?	Change "non-AP STA" to "20 MHz only non-AP STA"	2017/1/9 9:42
8538	Rojan Chitrakar	225	1 8.3.5.12.2	16	20	T	N	16.20 8.3.5.12.2	The PHY-CCA.indication(BUSY, {primary}) primitive is issued by the PHY as long as a valid PPDU is detected at a sufficient signal strength over the primary 20 MHz channel. However, just based on this indication, it is not possible for the MAC to understand which of the 20 MHz channels other than the primary 20 MHz are actually busy. To facilitate better spectrum re-use during DL/UL OFDMA transmissions, it would be beneficial for the MAC to be aware of the busy/idle state of the rest of the 20 MHz channels even when the primary 20 MHz channel is busy.	In order to enable the MAC to understand which of the 20 MHz channels other than the primary 20 MHz are actually busy, add three more channel-list elements for HE STAs: primary20: In an HE STA, indicates that the primary 20 MHz channel is busy but the rest of the 20 MHz channels within the operating channel width are idle. primary40: In an HE STA, indicates that the primary 40 MHz channel is busy but the rest of the 20 MHz channels within the operating channel width are idle. primary80: In an HE STA, indicates that the primary 80 MHz channel is busy but the rest of the 20 MHz channels within the operating channel width are idle.	2017/1/9 9:42

8539	Rojan Chitrakar	225	1 9.3.1.23	45	36	T	N	45.36 9.3.1.23	STAs with limited/inaccurate transmission power adjustment capabilities may not be able to accurately match the "Target RSSI" level specified in the Trigger Frame. This may cause large differences in the received power among STAs, leading to severe Multi-User Interference (MUI). As an example, an STA located very close to the AP may cause high RSSI at the AP even at minimum transmission power. This issue would be even more serious in the case of random access since the AP cannot know which STAs will actually transmit.	In order to enable the AP to reduce the chances of Multi-User Interference (MUI), aside from AID = 0, add two more special AIDs to identify RUs for random access with some restrictions as below: AID = 2008: Only STAs whose estimated received signal power at the AP does not exceed the "Target RSSI" specified in the Trigger frame, when the STA transmits at the transmit power level calculated as per Eqn. 28-118, may transmit on the RU. AID = 2009: Only STAs that cause the estimated received signal power at the AP to exceed the "Target RSSI" specified in the Trigger frame, even when the STA transmits at minimum transmit power level calculated as per Eqn. 28-118, may transmit on the RU. The definition of AID = 0 remains the same: AID = 0 : Random access with no restriction.		2017/1/9 9:42
8540	Rojan Chitrakar	225	1 9.3.1.23	42	32	T	N	42.32 9.3.1.23	Even though the Basic Trigger variant Trigger frame allows STAs to aggregate management frames with Data frames in an HE trigger based PPDU, in certain situations, it is more efficient if the AP is able to restrict the frame type that is included in the HE trigger based PPDU. For e.g. during the BSS setup, the AP can expect many simultaneous exchanges of block ack setup frames. In such times, it would be more efficient for the AP to restrict the uplink frames to management frames (ADDBA request/ADDBA response etc.).	Add a new Trigger variant for management frame types (Management frame Trigger variant) to solicit specific management frames from STAs. An two octet "preferred response type" field in the Type dependent common info field can be used to specify the specific management frame. The same encoding for frame subtypes defined in Section 9. Frame formats, may be reused. For Action frames, the remaining bits may be used to specify the Action category (as defined in 9.4.111) as well as the Action field defined for each Action frame.		2017/1/9 9:42
8541	Rojan Chitrakar	225	1 9.4.2.139	68	30	T	N	68.30 9.4.2.139	Instead of defining new Action frames (L3 Frag BA Request/Response) for block ack setup for L3 fragmentation, it is more efficient to reuse the HE Fragmentation Operation subfield to indicate L3 fragmentation as well.	Use the value of 3 for the HE Fragmentation Operation subfield in the ADDBA request/response frames to negotiate Block Ack setup under fragmentation level 3.		2017/1/9 9:42
8542	Rojan Chitrakar	225	1 9.6.5.1	98	46	T	N	98.46 9.6.5.1	Instead of defining new Action frames (L3 Frag BA Request/Response) for block ack setup for L3 fragmentation, it is more efficient to reuse the HE Fragmentation Operation subfield to indicate L3 fragmentation as well.	Remove Block Ack Action field values 3, 4 and 5 and instead use the value of 3 for the HE Fragmentation Operation subfield in the ADDBA request/response frames to negotiate Block Ack setup under fragmentation level 3.		2017/1/9 9:42
8543	Rojan Chitrakar	225	1 11.2.2.17	143	49	T	N	143.49 11.2.2.17	Inclusion of BSS Color Change Announcement element should also be classified as a critical update.	Add "Inclusion of BSS Color Change Announcement element" to the list.		2017/1/9 9:42
8544	Rojan Chitrakar	225	1 27.3.3.4	154	39	T	N	154.39 27.3.3.4	Instead of defining new Action frames (L3 Frag BA Request/Response) for block ack setup for L3 fragmentation, it is more efficient to reuse the HE Fragmentation Operation subfield to indicate L3 fragmentation as well.	use the value of 3 for the HE Fragmentation Operation subfield in the ADDBA request frames to initiate Block Ack setup under fragmentation level 3.		2017/1/9 9:42
8545	Rojan Chitrakar	225	1 27.3.3.4	154	41	T	N	154.41 27.3.3.4	Instead of defining new Action frames (L3 Frag BA Request/Response) for block ack setup for L3 fragmentation, it is more efficient to reuse the HE Fragmentation Operation subfield to indicate L3 fragmentation as well.	use the value of 3 for the HE Fragmentation Operation subfield in the ADDBA response frames to accept Block Ack setup under fragmentation level 3.		2017/1/9 9:42

8546	Rojan Chitrakar	225	1 27.3.3.4	154	46	T	N	154.46 27.3.3.4	More detail is required for the block acknowledgment record used during L3 fragmentation. It is mentioned that the block acknowledgment record maintains "up to" 4 bits per MSDU. Does it mean that it is also possible to have fewer than 4 (e.g. only 2) bits per MSDU if the MSDU only contain 2 fragments? If this is the case, a separate table would be required to track the number of fragments present in each received MSDU. If this is the intended effect, please provide more detail on how the recipient maintains and updates the block acknowledgment record (and other tables if applicable) under L3 fragmentation.	Please clarify the meaning of "up to" 4 bits per MSDU. If the block acknowledgement record may maintain variable number of bits per MSDU, please provide more detail on how the recipient maintains and updates the block acknowledgment record (and other tables if applicable) under L3 fragmentation.		2017/1/9 9:42
8547	Rojan Chitrakar	225	1 27.3.4.1	155	39	T	N	155.39 27.3.4.1	Some sort of timeout timer would still be required for defragmentation of dynamic fragments, else the incompletely received MSDUs, A-MSDU or MMPDU may cause the recipient's buffer to be full.	Clarify why the receive timer rules do not apply to dynamic fragments. Else, provide alternate mechanism to flush the recipient's buffer.		2017/1/9 9:42
8548	Rojan Chitrakar	225	1 27.4.1	157	49	E	N	157.49 27.4.1	Incomplete name in the sentence "... each received Multi-STA sent by an STA ..."	change "Multi-STA" to "Multi-STA Block Ack frame"		2017/1/9 9:42
8549	Rojan Chitrakar	225	1 27.4.3	160	8	G	N	160.08 27.4.3	Either incomplete or unclear sentence: "The values in the recipient's record ..."	Re-write the sentence in an easier to understand manner.		2017/1/9 9:42
8550	Rojan Chitrakar	225	1 27.4.4.1	160	46	T	N	160.46 27.4.4.1	"soliciting" should be "solicited"	replace "soliciting" with "solicited"		2017/1/9 9:42
8551	Rojan Chitrakar	225	1 27.4.4.5	162	23	T	N	162.23 27.4.4.5	The sentence "... announce the support the reception of MU multi-STA BlockAck frame.", refers to non-existence capability "MU multi-STA BlockAck frame". The closest thing appears to be "Group Addressed Multi-STA Block-Ack In DL MU Support" but that bit refers to support for the reception of a group-addressed Multi-STA BlockAck frame sent in a "non-broadcast" RU instead of a broadcast RU as stated in this clause.	Replace "reception of MU multi-STA BlockAck frame" with the correct HE capability subfield.		2017/1/9 9:42
8552	Rojan Chitrakar	225	1 27.5.2.2.2	166	38	T	N	166.38 27.5.2.2.2	"User Info field" should be "A-control subfield"?	Replace "User Info field" with "A-control subfield"		2017/1/9 9:42
8553	Rojan Chitrakar	225	1 27.52.2.2	167	15	T	N	167.15 27.52.2.2	"AC Preference Level subfield" should be "Preferred AC subfield" and grammar is wrong	Replace the sentence with "The AP may assign any value defined in Table 9-25i (Preferred AC subfield encoding) in the Preferred AC subfield in the Trigger Dependent User Info field for an HE STA identified by the AID12 subfield of the User Info field of a Basic Trigger frame."		2017/1/9 9:42
8554	Rojan Chitrakar	225	1 27.5.2.3	167	64	T	N	167.64 27.5.2.3	"- Otherwise, a STA shall not send an HE trigger-based PPDU." The conditions listed missed the case of AID12 = 0 i.e. transmission of HE trigger-based PPDU during OFDMA based UL Random Access.	Add the condition for the case of AID12 = 0 i.e. transmission of HE trigger-based PPDU during OFDMA based UL Random Access.		2017/1/9 9:42

8555	Rojan Chitrakar	225	1 27.5.2.4	170	36	T	N	170.36 27.5.2.4	Based on the description of the subsequent paragraph, the ED based CCA considers the status of a wide band channel on a 20 MHz granularity, i.e. as long as the 20 MHz channels containing the allocated RUs are considered idle, even if the other 20 MHz channels are busy (including the primary 20 MHz), a STA is still allowed to transmit the HE trigger- based PPDU. However, the virtual CS i.e. NAV is considered over the whole wide band. Even a narrow band OBSS transmission on the primary 20 MHz channel will set the STA's Inter-BSS NAV thereby rendering all the remaining 20 MHz channels of the wide band unusable for UL MU even when the ED based CCA returns idle on those 20 MHz channels. As such, it will be beneficial to record, in addition to the duration of the Inter-BSS NAV, the busy/idle state of the 20 MHz channels other than the primary 20 MHz. If the 20 MHz channels containing the allocated RUs are considered	When recording the inter-BSS NAV set by an inter-BSS PPDU, in addition to recording the NAV duration of the Inter-BSS PPDU, the busy/idle state of the 20 MHz channels other than the primary 20 MHz are also recorded. A STA may also keep this record in conjunction with the HE bandwidth query report operation. This allows the virtual CS to be considered on a 20 MHz granularity as well i.e. the virtual CS is considered busy on a 20 MHz channel only if the NAV counter is nonzero and the 20 MHz channel was recorded as busy when the NAV was recorded. If the 20 MHz channels containing the allocated RUs in a Trigger frame are considered idle by both the ED based CCA as well as the virtual CS, a STA is allowed to transmit the HE trigger- based PPDU on the allocated RU.		2017/1/9 9:42
8556	Rojan Chitrakar	225	1 27.5.2.6	172	23	E	N	172.23 27.5.2.6	The term "UL OFDMA-based random access" is very long. Define an acronym for "UL OFDMA-based random access" for easy referencing.	Following the 802.11 tradition of four letter acronyms for channel access schemes (e.g. EDCA, HCCA, MCCA etc.), would like to suggest UORA (Uplink OFDMA-based Random Access). Add a definition for UORA in Clause 3.2 and Clause 3.4 and replace all appropriate repetitive instances of "Uplink OFDMA-based Random Access" with UORA.		2017/1/9 9:42
8557	Rojan Chitrakar	225	1 27.5.2.6.1	172	33	T	N	172.33 27.5.2.6.1	STAs with limited/inaccurate transmission power adjustment capabilities may not be able to accurately match the "Target RSSI" level specified in the Trigger Frame. This may cause large differences in the received power among STAs, leading to severe Multi-User Interference (MUI). As an example, an STA located very close to the AP may cause high RSSI at the AP even at minimum transmission power. This issue would be even more serious in the case of random access since the AP cannot know which STAs will actually transmit.	In order to enable the AP to reduce the chances of Multi-User Interference (MUI), aside from AID = 0, add two more special AIDs to identify RUs for random access with some restrictions as below: AID = 2008: Only STAs whose estimated received signal power at the AP does not exceed the "Target RSSI" specified in the Trigger frame, when the STA transmits at the transmit power level calculated as per Eqn. 28-118, may transmit on the RU. AID = 2009: Only STAs that cause the estimated received signal power at the AP to exceed the "Target RSSI" specified in the Trigger frame, even when the STA transmits at minimum transmit power level calculated as per Eqn. 28-118, may transmit on the RU. The definition of AID = 0 remains the same: AID = 0 : Random access with no restriction.		2017/1/9 9:42
8558	Rojan Chitrakar	225	1 27.5.2.6.1	172	49	T	N	172.49 27.5.2.6.1	This note (If the STA does not receive the RAPS element, the STA does not transmit any HE trigger-based PPDU using random access RUs.) implies that an STA performing Active Scan may not use Random Access to transmit Probe Request frames to an AP from which it has not received Beacon/Probe Response frames. Since unassociated STAs were one of the target device categories given as example when the random access scheme was introduced, this limitation appears restrictive.	Define default values for OCWmin and OCWmax that may be used by unassociated STAs to transmit the probe request frames using random access RUs.		2017/1/9 9:42
8559	Rojan Chitrakar	225	1 27.5.2.7	174	21	T	N	174.21 27.5.2.7	NDP feedback report procedure lacks details	Please provide more details for the proposed NDP feedback report procedure		2017/1/9 9:42

8560 Rojan Chitrakar	225	1 27.5.3	175	33	T	N	175.33 27.5.3	In the sentence "An HE MU PPDU transmitted by the AP..." if the HE MU PPDU refers to the one that starts an MU Cascading sequence, please specify as such.	Qualify the HE MU PPDU to which the A-MPDU contents applies as the one that starts an MU cascading sequence.	2017/1/9 9:42
8561 Rojan Chitrakar	225	1 27.9.1	190	11	E	N	190.11 27.9.1	Definition of "SR PPDU" is missing	Add definition of "SR PPDU"	2017/1/9 9:42
8562 Rojan Chitrakar	225	1 27.9.1	190	42	T	N	190.42 27.9.1	The timing of PHYCCARESET.request primitive as well as the TXOP limitations if any is not clear in the case of spatial reuse during the reception of non-HE PPDU.	Clarify the he timing of PHYCCARESET.request primitive as well as the TXOP limitations if any in the case of spatial reuse during the reception of non-HE PPDU.	2017/1/9 9:42
8563 Rojan Chitrakar	225	1 27.10.2	192	43	T	N	192.43 27.10.2	More detail is required for the use of HE MU PPDU in the UL.	Provide details of UL HE MU PPDU.	2017/1/9 9:42
8564 Rojan Chitrakar	225	1 28.3.3.2	229	24	T	N	229.24 28.3.3.2	Does the sentence "The 242-tone RU is used in the 20 MHz HE SU PPDU format." imply that the 242-tone RU may not be used in the 20 MHz HE trigger based PPDU? If yes, this is contradictory with the sentence on P229L7 that says "The 26-tone RU, 52-tone RU, 106-tone RU and 242-tone RU are used in the 20 MHz, 40 MHz, 80 MHz, 160 MHz and 80+80 MHz HE MU PPDU formats or HE trigger-based PPDU formats using OFDMA transmission,..." In certain situations, it may be useful for the AP to trigger a single STA to send back a HE trigger-based PPDU on the full channel bandwidth e.g. using the 242-tone RU in a 20 MHz band .	Allow the AP to assign, in a Trigger frame, the largest RU on a channel to a single STA to transmit its uplink frame/s in an HE trigger based PPDU using OFDMA transmission. E.g. the 242-tone RU may be used in the 20 MHz HE trigger-based PPDU format using OFDMA transmission.	2017/1/9 9:42
8565 ron porat	225	1 28.3.11.5.4	321		T	Y	321.00 28.3.11.5.4	Lines 6-13 deal with the case where, in an MU PPDU, either no LDPC user has an extra symbol or all users are BCC encoded. However, the following isn't clear: an MU PPDU has a mixture of LDPC and BCC users and some LDPC users have an extra symbol. Should the BCC users set a,N_sym based on 28-86 or 28-85? The confusion arises because the 'if' statement on line 6 doesn't have an explicitly specified else clause and it's not clear whether the 'note' on line 14 applies only when the 'if' condition is met or is true universally.	Make it clear that BCC users shall set a,N_sym based on 28-86. Delete the text on lines 14-15 ("Note that users with .... Equation (28-86)") On line 8, after the words "shall be set to 0, and", add the underlined text: update the common pre-FEC padding factor and NSYM values for all users as follows	2017/1/9 9:42
8566 ron porat	225	1 28.4.2	372		T	Y	372.00 28.4.2	In an 11ac MU transmission with mixed BCC/LDPC users, the airtime for all the users was the same. However, the PSDU length as defined in 28-131 of 11ax D1.0 does not satisfy this property. In particular, for a mixture of BCC and LDPC users, when an LDPC extra symbol is added, BCC users' PSDU will not align with the rest	Ensure same airtime for all users, irrespective of coding. Update equation 28-131 as follows: a. Use two separate equations, one for the BCC and one for the LDPC case. b. Equation for LDPC case: same as equation 28-131, except that we omit the '-- N_tail' at the end c. Equation for BCC case: same as equation 28-131, except that we use Nsym instead of Nsym,init, and NDBPS,last,u instead of NDBPS,last,init,u	2017/1/9 9:42
8567 ron porat	225	1 28.3.10.7	275	34	T	Y	275.34 28.3.10.7	1 bit in HE-SIG-A assigned to handle Doppler, but no mechanism provided (Table 28-16 and 28-17)	Propose to adopt traveling pilots (similar to 11ah) to handle Doppler	2017/1/9 9:42
8568 ron porat	225	1 28.3.10.7	274	6	T	Y	274.06 28.3.10.7	Spatial Reuse Field value definition lacks detail	Propose to adopt document 1476r8 to complete the definition of the SRP based spatial reuse feature	2017/1/9 9:42
8569 ron porat	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3	In Table 9-262aa, capability bit for NSTS Total <= 80 MHz. Description is confusing.	Propose the following rewording: "The maximum value for Nsts.total that can be sent in a DL MU MIMO transmission on full or partial bandwidth that includes that STA"	2017/1/9 9:42

8570	ron porat	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	In Table 9-262aa, capability bit for NSTS Total > 80 MHz. Description is confusing.	Propose the following rewording: "The maximum value for Nsts.total that can be sent in a DL MU MIMO transmission on full or partial bandwidth that includes that STA"	2017/1/9 9:42
8571	ron porat	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	PHY design for NDP feedback report procedure is missing	Please provide PHY design details for this feature	2017/1/9 9:42
8572	ron porat	225	1 28.3.18.4.4	359		T	Y	359.00 28.3.18.4.4	Text describing EVM computation is inconsistent with motioned document 1427r2 - parts should either be modified or removed	Make the following changes: a. On line 2, change "step e)" to "step f)" b. Step h (lines 20-25) should be deleted from D1.0	2017/1/9 9:42
8573	Rui Cao	225	1 28.3.10.10	311	20	T	Y	311.20 28.3.10.10	"HELTFk is the k-th element of the common HE-LTF sequence generated by ... ", the usage of "k-th" is vague, which can mean k starts from 1 at the left most of the HELTF sequence. Need to clarity the wording.	Change it to "HELTFk is value of the common HE-LTF sequence on subcarrier k ..." or refer to Equations (28-58) and (28-59) for the definition of k.	2017/1/9 9:42
8574	RUI YANG	225	1 28.3.14.3	342	9	E	Y	342.09 28.3.14.3	In "with P the maximum power", the unit of P should be specified.	Change to "with P the maximum power in dBm".	2017/1/9 9:42
8575	RUI YANG	225	1 28.3.14.3	342	55	T	Y	342.55 28.3.14.3	"The symbol clock error shall be pre-compensated by the same ppm amount as CFO error." The source/reference of the ppm value should be specified.	Either delete this sentence or provide the source to obtain the ppm amount and how to compensate the symbol clock error.	2017/1/9 9:42
8576	RUI YANG	225	1 9.3.1.23 Trigger frame format	47	24	E	Y	47.24 9.3.1.23 Trigger frame format	In the sentence: "The Target RSSI subfield of the User Info field indicates the target received signal power of the HE trigger based PPDU response," it is not clear if the "received signal power" at AP or STA.	Change to "The Target RSSI subfield of the User Info field indicates the target received signal power averaged over the AP's antennas of the HE trigger based PPDU response."	2017/1/9 9:42
8577	RUI YANG	225	1 28.3.14.2	341		E	Y	341.00 28.3.14.2	The first paragraph of this subclause is not necessary. The two signaled variables (i.e., Target_RSSI and Tx_pwr^AP) should be described (including the information about the source of the signals and their physical meaning) when they are introduced in Eq (28-118) and (28-119), respectively.	Removed the first paragraph, and describe Target_RSSI and Tx_pwr^AP under Eq (28-118) and Eq (28-119), respectively, with the information about the source and physical meaning.	2017/1/9 9:42
8578	RUI YANG	225	1 28.3.14.2	341	7	T	Y	341.07 28.3.14.2	It is not clear if "the target receive signal power" is from each STA or the total received power.	Make it clear if "the target receive signal power" is from each STA or the total received power.	2017/1/9 9:42
8579	RUI YANG	225	1 28.3.14.2	341		E	N	341.00 28.3.14.2	The descriptions of Tx_pwr^AP and DL_RSSI should be done for one after another, rather in a interleaved way.	Describe Tx_pwr^AP first, then DL_RSSI.	2017/1/9 9:42
8580	RUI YANG	225	1 28.3.14.2	341	14	E	Y	341.14 28.3.14.2	The font of the letters in "Target" in Eq. (28-119) should be the same.	Make the font the same in "Target"	2017/1/9 9:42
8581	RUI YANG	225	1 28.3.14.2	341	41	T	Y	341.41 28.3.14.2	How to obtain BF gain, and how to apply the BF gain into the power pre-correction equation should be specified. It is not clear if the BF gain includes both Tx (@STA) and Rx (@AP) BF gain.	Provide the way(s) to obtain the BR gains and make it clear if it refers to Tx or/and Rx BF gain.	2017/1/9 9:42
8582	RUI YANG	225	1 28.3.14.2	341	44	T	Y	341.44 28.3.14.2	The formulation that considers max and min tx power should be explicitly given in Eq (28-118).	Update Equation (28-118) including min and max Tx powers.	2017/1/9 9:42
8583	RUI YANG	225	1 28.3.14.2	341	59	T	Y	341.59 28.3.14.2	Where to obtain "maximum UL transmit power of HE trigger-based PPDU for the assigned MCS" should be given.	Provide the source to obtain "maximum UL transmit power of HE trigger-based PPDU for the assigned MCS"	2017/1/9 9:42
8584	RUI YANG	225	1 28.3.14.3	342	8	E	Y	342.08 28.3.14.3	"max(P-32, -10 dBm)" is a confusion expression	Change to "max(P-32, -10) (dBm) "	2017/1/9 9:42
8585	Sameer Vermani	225	1 28.3.16	344	55	E	N	344.55 28.3.16	The symbol for mu to signify micro-seconds is not correct in the line about PE field	Correct to apprpriate greek alphabet	2017/1/9 9:42

8586	Sameer Vermani	225	1 27.6	177	14	E	N	177.14 27.6	This line "If the HE beamformee is not capable of partial bandwidth feedback or if there is only one STA info element in the NDP Announcement frame then the HE beamformer shall set the RU Start Index and the RU End Index to values indicating a full bandwidth feedback such as in the case of Ng = 4, for 80 MHz full bandwidth feedback the RU Start Index and RU End Index is set to 0 and 36, respectively as shown in Table YY-1." needs to break and also please correct reference to the table. YY-1 does not seem to be the valid table reference.	Replace with "If the HE beamformee is not capable of partial bandwidth feedback or if there is only one STA info element in the NDP Announcement frame then the HE beamformer shall set the RU Start Index and the RU End Index to values indicating a full bandwidth feedback. As an example, in the case of Ng = 4, for 80 MHz full bandwidth feedback the RU Start Index and RU End Index are set to 0 and 36, respectively as shown in Table YY-1."	2017/1/9 9:42
8587	Sameer Vermani	225	1 27.6	178	39	E	N	178.39 27.6	"The beamformer initiating HE sounding protocol with one beamformee, shall not request MU-type feedback, CQI feedback, and SU-type partial bandwidth feedback, i.e., RU start index and RU end index do not cover full bandwidth, in NDP announcement." needs improvement	Suggested text "The beamformer initiating HE sounding protocol with one beamformee, shall not request MU-type feedback, CQI feedback or an SU-type partial bandwidth feedback (a SU -type feedback where RU start index and RU end index do not cover full bandwidth, in NDP announcement)."	2017/1/9 9:42
8588	Sameer Vermani	225	1 27.6	178	32	T	N	178.32 27.6	"The HE Compressed Beamforming feedback is comprised of the HE Compressed Beamforming Report information and the MU Exclusive Beamforming Report information." seems out of place	Delete the cocerned line. This belongs to another section.	2017/1/9 9:42
8589	Sameer Vermani	225	1 9.6.28.2	64	6	E	N	64.06 9.6.28.2	The etxt "The HE MU Exclusive Beamforming Report information consists of Delta SNR subfields for each of the space-time stream (1 to Nc) of a subset of subcarriers typically spaced Ng apart, where Ng is signaled in the Grouping subfield of the HE MIMO Control field. Starting from the lowest frequency subcarrier and continuing to the highest frequency subcarrier. Specifically, the locations of the feedback subcarriers for delta SNR subfield shall be identical to the subcarrier locations of the compressed V matrices feedback." needs to improve	Suggested text "The HE MU Exclusive Beamforming Report information consists of Delta SNR subfields for each of the space-time stream (1 to Nc) of a subset of subcarriers typically spaced Ng apart, where Ng is signaled in the Grouping subfield of the HE MIMO Control field, starting from the lowest frequency subcarrier and continuing to the highest frequency subcarrier. Specifically, the locations of the feedback subcarriers for delta SNR subfield shall be identical to the subcarrier locations of the compressed beamforming feedback matrix V."	2017/1/9 9:42
8590	Sheng Sun	225	1 9.2.4.5.4	20	43	T	Y	20.43 9.2.4.5.4	The new HE rule added to Table 9-9, how would a receipient return a multi-STA BA in response to a DL HE MU PPDU? Additionally it is not clear what type of the trigger frame is used to return the response. There is MU ACK trigger frame type.	clarify	2017/1/9 9:42
8591	Sheng Sun	225	1 9.4.2.200	70	50	T	Y	70.50 9.4.2.200	The terms Scheduling STA and Scheduled STA need to be defined	as in comment	2017/1/9 9:42
8592	Sheng Sun	225	1 27.2.2	150	34	T	Y	150.34 27.2.2	My ubderstading is the single NAV currently supported by 802.11 devices is updated baed on the Duration value in the MAC header of all received frame (Inter or Intra BSS). The so called "Basic NAV" is only updated based on Inter-BSS frames received.	it is better to find another name other than Baisc NAV. Mayve Iter-BSS NAV.	2017/1/9 9:42
8593	Sheng Sun	225	1 27.5.1.3	163	27	T	Y	163.27 27.5.1.3	what does "channel availability" mean?	clarify	2017/1/9 9:42
8594	Sheng Sun	225	1 27.7.3.1	183	31	T	Y	183.31 27.7.3.1	I thnik it would be much easire by explicitly specify the MMPDU that contains the TWT element, whether it is the TWT Req or the TWT Resp.	as in comment	2017/1/9 9:42
8595	Sheng Sun	225	1 27.7.3.2	184	20	T	Y	184.20 27.7.3.2	"Trigger-enabled TWT SP" need to be defined	as in comment	2017/1/9 9:42
8596	Sigurd Schelstraete	225	1 28.3.3.1	228	56	E	N	228.56 28.3.3.1	Make numbered list of subcarrier types, instead of running text	See comment	2017/1/9 9:42

8597	Sigurd Schelstraete	225	1 28.3.3.1	228	60	T	N	228.60 28.3.3.1	Replace "not used for data/pilot transmission" with " not used for either data or pilot transmission"	See comment	2017/1/9 9:42
8598	Sigurd Schelstraete	225	1 28.3.3.2	229	1	T	N	229.01 28.3.3.2	Section 28.3.3.2 is called "Resource unit, guard and DC subcarriers". Split it into a section on "Resource units" (including all text from page 229, line 3 to page 235, line 25) and one on "guard and DC subcarriers" (including text from page 235, line 27 to page 235, line 48).	See comment	2017/1/9 9:42
8599	Sigurd Schelstraete	225	1 28.3.3.2	229	9	T	Y	229.09 28.3.3.2	It would be preferable to control the behavior of the HE AP through e.g. a MIB variable. This variable would control whether the AP needs to take special measures in the presence on non-HE OBSS or not.	Introduce configuration control for the behavior of an HE AP in the presence of non-HE OBSS.	2017/1/9 9:42
8600	Sigurd Schelstraete	225	1 28.3.3.2	229	9	T	N	229.09 28.3.3.2	"If an HE AP operates in a DFS channel where there is a non-HE OBSS" needs to be more specific as to when the condition applies.	Provide more detail as to which metrics will trigger the specific condition to not request 26-tone RUs.	2017/1/9 9:42
8601	Sigurd Schelstraete	225	1 28.3.3.2	229	11	T	Y	229.11 28.3.3.2	"and the HE non-AP STA shall not respond with 26-tone RU". This may put STAs that oberve an OBSS at a disadvantage, since it has no way to indicate explicitly why it is not responding. It may be underserved as a result.	It would be better to have a mechanism that enables STAs to indicate the presence of a non-HE OBSS to the HE AP.	2017/1/9 9:42
8602	Sigurd Schelstraete	225	1 28.3.3.2	230	6	T	Y	230.06 28.3.3.2	The subcarrier indices in Table 28-3 are correct for a PPDU with CH_BANDWIDTH equal to 20 MHz in an 20 MHz BSS. If the BW of the BSS is wider than 20 MHz, I assume that a PPDU with CH_BANDWIDTH equal to 20 MHz would be sent in the primary channel of the BSS, causing all indices to shift accordingly. The text should be clearer on the position of the RU's when the CH_BANDWIDTH is less than the BSS bandwidth.	Add clarification on the interpretation of the RU indices when the CH_BANDWIDTH is less than the BSS bandwidth. Similarly for Table 28-4 and 28-5.	2017/1/9 9:42
8603	Sigurd Schelstraete	225	1 28.3.3.2	230	6	T	N	230.06 28.3.3.2	Replace "Subcarrier indices" with "Data and Pilot subcarriers indices"	See comment Similarly for Table 28-4 and 28-5.	2017/1/9 9:42
8604	Sigurd Schelstraete	225	1 28.3.3.2	233	24	T	N	233.24 28.3.3.2	Figure 28-3 does not show the number of DC carriers for the first four rows, unlike figures 28-2 and 28-4	Add number of DC carriers to figure	2017/1/9 9:42
8605	Sigurd Schelstraete	225	1 28.3.3.2	235	27	T	N	235.27 28.3.3.2	"The 20 MHz HE MU PPDU and HE trigger-based PPDU with more than one RU has 7 DC subcarriers". This is not correct. A 20 MHz PPDU with a single RU smaller than 242 tones also has 7 DC tones.	Change to "A 20 MHz HE MU PPDU and HE trigger-based PPDU carrying one or more RUs smaller than 242 tones has 7 DC subcarriers"	2017/1/9 9:42
8606	Sigurd Schelstraete	225	1 28.3.3.2	235	30	T	N	235.30 28.3.3.2	"The 40 MHz HE PPDU with a 484-tone RU has 5 DC subcarriers located at [-[ ]-[2: 2].". The text does not mention the case of 40 MHz PPDU with smaller RU sizes.	Add numebr of DC carriers for a 40 MHz PPDU with RU size(s) smaller than 484.	2017/1/9 9:42
8607	Sigurd Schelstraete	225	1 28.3.3.2	235	31	T	N	235.31 28.3.3.2	"An 80 MHz HE MU PPDU and HE trigger-based PPDU with more than one RU has 7 DC subcarriers". This is not correct sincs an 80 MHz PPDU with a single RU smaller than 996 tones also has 7 DC carriers.	Change to "An 80 MHz HE MU PPDU and HE trigger-based PPDU with one or more RU's smaller than 996 tones has 7 DC subcarriers"	2017/1/9 9:42
8608	Sigurd Schelstraete	225	1 28.3.3.2	235	37	T	N	235.37 28.3.3.2	"The 20 MHz HE PPDU format has 11 guard subcarriers (6, 5)". Notation (6,5) is not explained anywhere.	Clarify. Similarly on lines 39 and 41 (notation (12,11))	2017/1/9 9:42
8609	Sigurd Schelstraete	225	1 28.3.3.2	235	37	T	N	235.37 28.3.3.2	Why are guard carriers treated differently from null subcarriers. Both types are carriers without energy on it. The distinction seems rather artifical.	Considering merging guard carriers with null subcarriers	2017/1/9 9:42
8610	Sigurd Schelstraete	225	1 28.3.3.2	235	48	T	N	235.48 28.3.3.2	Don't use term "legacy preambles".	Use e.g. non-HE preamble fields	2017/1/9 9:42
8611	Sigurd Schelstraete	225	1 28.3.3.3	236	16	T	N	236.16 28.3.3.3	Table 28-6, for 40 MHz RU sizes 26, 52 and 106 defines tones +/-3 as null subcarriers, while +2;2 are defined as DC subcarriers. What's wrong with defining -3;+3 as DC subcarriers?	Define -3;+3 as DC subcarriers	2017/1/9 9:42

8612	Sigurd Schelstraete	225	1 28.3.3.4	236	35	T	N	236.35 28.3.3.4	Unclear sentence "In the 1x HE-LTF, the pilot locations are the pilot subcarrier indices that are multiples of 4 of the pilot subcarriers for data field."	Change to "In the 1x HE-LTF, the pilot locations in HE-LTF only consists of the pilot subcarriers for data field that are multiples of four."		2017/1/9 9:42
8613	Sigurd Schelstraete	225	1 28.3.3.4	236	42	T	N	236.42 28.3.3.4	The pilot tones are specific to RU's. Table 28-7 should use a format similar to e.g. Table 28-3 to Table 28-5, showing the pilot tones belonging to each RU	Show the pilot tones specific to each RU		2017/1/9 9:42
8614	Sigurd Schelstraete	225	1 28.3.3.5	237	16	T	N	237.16 28.3.3.5	"when operating 20 MHz". Improve wording	Change to e.g. "when operating in 20 MHz-only mode"		2017/1/9 9:42
8615	Sigurd Schelstraete	225	1 28.3.3.5	237	21	T	N	237.21 28.3.3.5	"a 20 MHz operating non-AP STA". What is the correct term for this type of STA? 20 MHz-only STA?	Settle on a term to describe this kind of STA and use the terminology consistently.		2017/1/9 9:42
8616	Sigurd Schelstraete	225	1 27.15.2	201	37	T	N	201.37 27.15.2	"An HE non-AP STA may transmit an HE trigger-based PPDU to a peer STA if it has received from the peer STA an HE Capabilities element with the UL MU PPDU Support field equal to 1; otherwise the STA shall not transmit an HE trigger-based PPDU to the peer STA.". Do we even need this requirement? HE Trigger-based PPDUs should only be sent in response to a Trigger Frame sent by the peer STA. If the peer STA doesn't want to receive trigger-based PPDUs, it should not send a Trigger Frame.	Clarify		2017/1/9 9:42
8617	Sigurd Schelstraete	225	1 27.15.2	201	38	T	N	201.38 27.15.2	Name of field should be "UL MU" instead of "UL MU PPDU Support"	Correct name of field		2017/1/9 9:42
8618	Sigurd Schelstraete	225	1 27.16.1	204	60	T	N	204.60 27.16.1	What is an "HE mesh STA"? HE STA with dot11MeshActivated equal to True?	Clarify. The same term also appears in other places in this section.		2017/1/9 9:42
8619	Sigurd Schelstraete	225	1 27.16.1	205	4	T	Y	205.04 27.16.1	"A STA shall set all the subfields of the VHT Capabilities and HT Capabilities element it transmits to respective values that indicate the same capabilities provided in the HE Capabilities element it transmits.". This requirement is not sufficiently specific. A mapping between relevant HE fields and HT/VHT fields should be provided.	See comment		2017/1/9 9:42
8620	Sigurd Schelstraete	225	1 27.16.1	205	52	T	N	205.52 27.16.1	Change "preamble puncture" to "preamble puncturing"	See comment		2017/1/9 9:42
8621	Sigurd Schelstraete	225	1 27.16.3.2	207	57	E	N	207.57 27.16.3.2	Change "Quite" to "Quiet"	See comment		2017/1/9 9:42
8622	Sigurd Schelstraete	225	1 27.16.3.2	207	57	T	N	207.57 27.16.3.2	Unclear sentence "the requested HE STA can transmit frame belongs to the requested type of STA-to-STA operation"	Improve wording		2017/1/9 9:42
8623	Sigurd Schelstraete	225	1 28.1.1	209	14	T	N	209.14 28.1.1	The bullet list with additional mandatory requirements can be simplified. For instance, it looks like Clause 19 is mandatory in all cases.	Change to: "compliant with the mandatory requirements of the following PHY specifications: - Clause 19 - Clause 21 for AP STAs and for non-AP STAs capable of 40 and 80 MHz channel widths in 5 GHz"		2017/1/9 9:42
8624	Sigurd Schelstraete	225	1 28.1.1	209	24	T	N	209.24 28.1.1	Other than mandating Clause 21, how can it be said that the HE PHY is "based on the VHT PHY"? The differences are in fact significant.	I see no need to need to document the whole genealogy. This adds little information. Delete sentence (lines 24-32).		2017/1/9 9:42
8625	Sigurd Schelstraete	225	1 28.1.1	209	32	E	N	209.32 28.1.1	Start new pararaph before "THE HE PHY extends the maximum number of users ..."	See comment		2017/1/9 9:42
8626	Sigurd Schelstraete	225	1 28.1.1	209	36	T	N	209.36 28.1.1	run-on sentence	Start new sentence starting at "and in an MU-MIMO resource unit"		2017/1/9 9:42
8627	Sigurd Schelstraete	225	1 28.1.1	209	44	T	N	209.44 28.1.1	Change RU to "resource unit" as in the paragraph above.	See comment		2017/1/9 9:42
8628	Sigurd Schelstraete	225	1 28.1.1	209	44	E	N	209.44 28.1.1	Change "is" to "are"	See comment		2017/1/9 9:42
8629	Sigurd Schelstraete	225	1 28.1.1	209	64	T	N	209.64 28.1.1	Clarify sentence	Change "An HE STA refers to an AP STA and a non-AP STA" to "The term HE STA can refer to both an AP STA or a non-AP STA"		2017/1/9 9:42

8630	Sigurd Schelstraete	225	1 28.1.1	210	1	T	N	210.01 28.1.1	Delete sentence	"A non-AP STA is inclusive of a 20 MHz-only non-AP STA." is not needed. The capabilities listed below make that clear. If anything, the sentence is confusing.	2017/1/9 9:42
8631	Sigurd Schelstraete	225	1 28.1.1	210	9	T	N	210.09 28.1.1	What is "primary 20 MHz PPDU bandwidth"?	Does it mean a single 242-tone RU occupying the primary 20 MHz channel?	2017/1/9 9:42
8632	Sigurd Schelstraete	225	1 28.1.1	210	12	T	N	210.12 28.1.1	Change "defined" to "allowed". BCC definition is not explicitly linked to bandwidth.	See comment	2017/1/9 9:42
8633	Sigurd Schelstraete	225	1 28.1.1	210	14	T	N	210.14 28.1.1	Second bullet should describe the type of PPDU for which BCC is not allowed	Probably something like "an MU PPDU occupying an RU ..."	2017/1/9 9:42
8634	Sigurd Schelstraete	225	1 28.1.1	210	15	T	N	210.15 28.1.1	Third bullet should describe the type of PPDU for which BCC is not allowed	Probably something like "an MU PPDU occupying an RU ..."	2017/1/9 9:42
8635	Sigurd Schelstraete	225	1 28.1.1	210	18	T	N	210.18 28.1.1	"An HE PPDU using HE MCS 10 or 11". Also, an RU within an MU PPDU using MCS 10 or 11?	Clarify	2017/1/9 9:42
8636	Sigurd Schelstraete	225	1 28.1.1	210	25	T	Y	210.25 28.1.1	If a STA is 20 MHz-only and were to use more than four streams, then: - BCC is not allowed (per line 16) - LDPC is not mandatory (per lines 23 and 27).	How to resolve this? - 20 MHz-only can not send more than 4 streams (or declare capability to do so)? - remove "except when the STA is an 20 MHz only non-AP STA" on lines 25 and 28?	2017/1/9 9:42
8637	Sigurd Schelstraete	225	1 28.1.1	210	31	T	N	210.31 28.1.1	"LDPC when declaring support for MCS10 and MCS11". Confirm that this also applies to 20 MHz-only STAs.	See comment	2017/1/9 9:42
8638	Sigurd Schelstraete	225	1 28.1.1	210	37	T	N	210.37 28.1.1	The GI/HE-LTF mandatory requirements are to support certain combinations of values. Reword for clarity.	For instance "Support for 0.8 usec GI in combination with 2x LTF" (similarly for other cases)	2017/1/9 9:42
8639	Sigurd Schelstraete	225	1 28.1.1	210	52	T	Y	210.52 28.1.1	Mandatory support for number of spatial streams is not listed	What is the mandatory number of spatial streams?	2017/1/9 9:42
8640	Sigurd Schelstraete	225	1 28.1.1	210	57	T	N	210.57 28.1.1	The GI/HE-LTF mandatory requirements are to support certain combinations of values. Reword for clarity.	For instance "Support for 0.8 usec GI in combination with 1x LTF" (similarly for other cases)	2017/1/9 9:42
8641	Sigurd Schelstraete	225	1 4.3.14a	9	18	T	Y	9.18 4.3.14a	Requirement not clear: "An HE non-AP STA supporting 20 MHz, 40 MHz, 80 MHz, 160 MHz and 80+80 MHz is also a VHT non-AP STA". Does this mean that the HE non-AP STA has to support all listed BW's before it is required to be a VHT non-AP STA?	Clarify. A HE STA should be a VHT STA, regardless of whether it supports 160/80+80.	2017/1/9 9:42
8642	Sigurd Schelstraete	225	1 9.2.4.1.8	19	35	T	N	19.35 9.2.4.1.8	Define non-HE STA	See comment	2017/1/9 9:42
8643	Sigurd Schelstraete	225	1 9.2.4.6.4.1	22	61	T	N	22.61 9.2.4.6.4.1	"The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence." Are there restriction if the Control subfield with Control ID subfield equal to 0 is not present or is no specific ordering required in that case. If not, mention this explicitly.	See comment	2017/1/9 9:42
8644	Sigurd Schelstraete	225	1 9.2.4.6.4.1	22	61	T	N	22.61 9.2.4.6.4.1	"The Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence." If the Control subfield with Control ID subfield equal to 0 is present, there is no room for a second subfield. What's the point of this requirement?	Clarify	2017/1/9 9:42
8645	Sigurd Schelstraete	225	1 9.2.4.6.4.2	24	13	T	N	24.13 9.2.4.6.4.2	Change "for the soliciting frame" to "for the Trigger Frame preceding the UL MU response"	See comment	2017/1/9 9:42
8646	Sigurd Schelstraete	225	1 9.2.4.6.4.2	24	21	T	N	24.21 9.2.4.6.4.2	What is F_val?	Clarify	2017/1/9 9:42
8647	Sigurd Schelstraete	225	1 9.52.4.6.4.6	27	37	T	N	27.37 9.52.4.6.4.6	"B5 of the UL Power Headroom subfield is set to 1 to indicate ...". Make this a separate field if this bit serves a specific purpose.	See comment	2017/1/9 9:42
8648	Sigurd Schelstraete	225	1 9.3.1.20	40	32	T	N	40.32 9.3.1.20	The Nc subfield in Figure 9-25a is not defined.	Add description after line 30 on page 41	2017/1/9 9:42
8649	Sigurd Schelstraete	225	1 9.3.1.20	41	6	T	N	41.06 9.3.1.20	"Feedback Type And Ng" and "Codebook Size" are two separate fields in Figure 9-51b. However, they are treated as a single 3-bit field in Table 9-25a. Split the first column into two columns to show the value of each of the fields.	See comment	2017/1/9 9:42

8650	Sigurd Schelstraete	225	1 9.3.1.23	41	37	T	N	41.37 9.3.1.23	Split sentence for clarity	Change "The Trigger frame solicits and allocates resources for UL MU transmissions a SIFS after the PPDU that carries the Trigger frame." to "The Trigger frame solicits and allocates resources for UL MU transmissions. The UL MU transmissions start a SIFS after the PPDU that carries the Trigger frame."		2017/1/9 9:42
8651	Sigurd Schelstraete	225	1 9.3.1.23	42	8	E	N	42.08 9.3.1.23	Insert space between "GI" and "And"	See comment		2017/1/9 9:42
8652	Sigurd Schelstraete	225	1 9.3.1.23	42	26	T	N	42.26 9.3.1.23	The sentence "The Trigger frame can include an optional Trigger Dependent Common Info field and optional Trigger Dependent User Info field." looks out of place. This paragraph is about Trigger Type subfield.	Move sentence to more appropriate location		2017/1/9 9:42
8653	Sigurd Schelstraete	225	1 9.3.1.23	42	57	T	N	42.57 9.3.1.23	"HE trigger-based PPDU" could be plural.	Change "the value of the L-SIG Length field of the HE trigger-based PPDU that is the response to the Trigger frame" to "the value of the L-SIG Length field of all the HE trigger-based PPDUs that are sent in response to the Trigger frame"		2017/1/9 9:42
8654	Sigurd Schelstraete	225	1 9.3.1.23	43	7	T	N	43.07 9.3.1.23	"HE trigger-based PPDU" could be plural.	Change "the bandwidth in the HE-SIG-A of the HE trigger-based PPDU" to "the bandwidth in the HE-SIG-A field of all the HE trigger-based PPDUs that are sent in response to the Trigger frame"		2017/1/9 9:42
8655	Sigurd Schelstraete	225	1 9.3.1.23	44	26	T	N	44.26 9.3.1.23	Change "the same as" to "the same as the encoding of"	See comment		2017/1/9 9:42
8656	Sigurd Schelstraete	225	1 9.3.1.23	44	56	T	N	44.56 9.3.1.23	Split the "packet extension subfield" into two fields, similar to what was done for HE-SIG-A: one field for "pre-FEC padding factor" and one field for "PE Disambiguity".	See comment		2017/1/9 9:42
8657	Sigurd Schelstraete	225	1 9.3.1.23	45	11	T	Y	45.11 9.3.1.23	"The Doppler subfield indicates a high doppler mode of transmission" What does this mean? How would the AP know about the Doppler mode of the environment? Is the AP moving?	Clarify		2017/1/9 9:42
8658	Sigurd Schelstraete	225	1 9.3.1.23	45	38	E	N	45.38 9.3.1.23	Typo: "not equals to 0"	Change to "not equal to 0""		2017/1/9 9:42
8659	Sigurd Schelstraete	225	1 9.3.1.23	46	33	E	N	46.33 9.3.1.23	Change "B19-B13 are 0000000 indicates" to "A value of 0000000 for B19-B13 indicates ...". Note that this appears in many places in the text on lines 31-57.	See comment		2017/1/9 9:42
8660	Sigurd Schelstraete	225	1 9.3.1.23	47	15	T	Y	47.15 9.3.1.23	Is it allowed to choose "Starting Spatial Stream" such that there are gaps in the total number of streams. E.g: Starting Spatial Stream=0, N_SS=1 and Starting Spatial Stream=2, N_SS=1.	Specify that there should be no gaps in the numbering of all the streams in an UL MU-MIMO transmission.		2017/1/9 9:42
8661	Sigurd Schelstraete	225	1 9.3.1.23	47	15	T	N	47.15 9.3.1.23	Should "Starting Spatial Stream" value always be 0 for RU's that use "pure" OFDMA?	Clarify		2017/1/9 9:42
8662	Sigurd Schelstraete	225	1 9.3.1.23	47	47	E	N	47.47 9.3.1.23	Change "the rest bits" to "the remaining bits"	See comment		2017/1/9 9:42
8663	Sigurd Schelstraete	225	1 9.3.1.23	47	62	E	N	47.62 9.3.1.23	Change "max TF MAC Padding Duration ..." to "if max TF MAC Padding Duration ..."	Occurs three times on lines 62-65. Same on page 48, lines 11-14.		2017/1/9 9:42
8664	Sigurd Schelstraete	225	1 9.4.1.62	57	57	T	N	57.57 9.4.1.62	Wrong definition of "sounding dialog token number"	Provide correct definition		2017/1/9 9:42
8665	Sigurd Schelstraete	225	1 9.4.1.63	58	27	T	Y	58.27 9.4.1.63	Where is N_RX_BFEE defined?	Define		2017/1/9 9:42
8666	Sigurd Schelstraete	225	1 9.4.1.63	58	28	T	N	58.28 9.4.1.63	Possibly wrong reference: "where Nr and Nc satisfy Equation (8-1)."	Correct reference		2017/1/9 9:42
8667	Sigurd Schelstraete	225	1 9.4.1.63	58	35	T	N	58.35 9.4.1.63	"The HE Compressed Beamforming Report information has the same structure and order". Same as what?	Clarify		2017/1/9 9:42
8668	Sigurd Schelstraete	225	1 9.4.1.63	59	56	E	N	59.56 9.4.1.63	Repeat header row for Table 9-76c	See comment		2017/1/9 9:42
8669	Sigurd Schelstraete	225	1 9.4.1.63	60	14	T	N	60.14 9.4.1.63	List the values for (S,E) instead of saying "(S, E) for 80 MHz + 256"	See comment. Apply this throughout the tables 9-76c, 9-76d,		2017/1/9 9:42

8670	Sigurd Schelstraete	225	1 9.4.1.64	64	20	T	N	64.20 9.4.1.64	"The HE MU Exclusive Beamforming Report information has the same structure and order Table 9-76f". Sentence not clear. Same as what?	Clarify	2017/1/9 9:42
8671	Sigurd Schelstraete	225	1 9.4.2.218.1	76	19	T	N	76.19 9.4.2.218.1	Replace "defined in the subclauses below." with references to the relevant subclauses	See comment	2017/1/9 9:42
8672	Sigurd Schelstraete	225	1 9.4.2.218.1	79	42	T	N	79.42 9.4.2.218.1	"Definition" and "Encoding" are empty for "Maximum A-MPDU Length Exponent"	See comment	2017/1/9 9:42
8673	Sigurd Schelstraete	225	1 9.4.2.218.3	81	32	T	N	81.32 9.4.2.218.3	Why is "NSTS Total For <= 80 MHz" 2 bits and "NSTS Total For > 80 MHz" 3 bits? Their definition and encoding are identical in Table 9-262aa.	Change "2" to "3", since 3 bits are already allocated (B37-B39)	2017/1/9 9:42
8674	Sigurd Schelstraete	225	1 9.4.2.218.3	83	41	T	Y	83.41 9.4.2.218.3	What is "Doppler procedure"?	Clarify	2017/1/9 9:42
8675	Sigurd Schelstraete	225	1 9.4.2.218.3	84	40	T	Y	84.40 9.4.2.218.3	There are 6 conditions for setting the MU Beamformer bit. Some of them are potentially contradictory. E.g: Set to 1 if SU Beamformer subfield is 1, Set to 0 if sent by non-AP STA. Also, two of the conditions are: Set to 0 if the SU Beamformer subfield is 0, Set to 1 if SU Beamformer subfield is set to 1. This would make the MU Beamformer bit identical to the SU Beamformer bit. Clearly some extra hierarchy or conditions are needed to specify the value of the MU Beamformer bit.	Correct Encoding of MU Beamformer bit.	2017/1/9 9:42
8676	Sigurd Schelstraete	225	1 9.4.2.218.3	84	49	T	Y	84.49 9.4.2.218.3	Beamformee STS Capability is indicated in the HE Capabilities element. We believe HE should support MU-MIMO and BF optimized for up to 8 antennas. This means not being restricted by limited feedback capability of certain non-AP STAs. Ideally, all non-AP STAs should support Beamformee STS Capability equal to 8. Given that the feedback requirements are relatively straightforward for 1 and 2-antennas receivers, we could consider making it mandatory for those STAs. These are also the devices that are prime candidates for MU-MIMO and BF.	Define a class of non-AP STAs for which Beamformee STS Capability (and NSTS Total Capability) equal to 8 is mandatory (for instance, as function of N_STS supported by STA)	2017/1/9 9:42
8677	Sigurd Schelstraete	225	1 9.4.2.218.3	86	6	T	Y	86.06 9.4.2.218.3	The name "HE ER SU Payload" is not very descriptive. Replace with a name that better covers the definition.	See comment	2017/1/9 9:42
8678	Sigurd Schelstraete	225	1 9.4.2.218.4	86	44	T	N	86.44 9.4.2.218.4	There is no reason to call the field "Highest NSS Supported M1". It's better and cleaner to call it "Highest NSS Supported" and clarify how this is encoded, as is done throughout the draft (see e.g. "NSTS Total For <= 80 MHz", "Number Of Sounding Dimensions For <= 80 MHz", ... All of those fields are encoded as the number of streams minus 1, but that is not reflected in the field name)	See comment	2017/1/9 9:42
8679	Sigurd Schelstraete	225	1 9.4.2.218.4	87	56	T	N	87.56 9.4.2.218.4	"If all of the bits of the Tx BW Bitmap subfield and all of the bits of the Rx BW Bitmap subfield are zero, then none of the subfields of the Tx Rx HE MCS Support field beyond Highest MCS Supported need to be present."This means that "Tx BW bitmap", "Rx BW bitmap", ... could be absent. That should be reflected in Figure 9-589cm.	Add "(if present)" for the fields that are not always included.	2017/1/9 9:42
8680	Sigurd Schelstraete	225	1 9.4.2.218.4	88	30	T	N	88.30 9.4.2.218.4	What is the encoding of NSS: #streams or #streams - 1.	Clarify	2017/1/9 9:42
8681	Sigurd Schelstraete	225	1 9.4.2.218.5	88	59	T	N	88.59 9.4.2.218.5	Change name of "NSS M1" to "NSS" and make it clear that they content of the field is number of streams - 1	See comment	2017/1/9 9:42

8682	Sigurd Schelstraete	225	1 9.4.2.218.5	89	39	E	N	89.39 9.4.2.218.5	Typo: change ".." to "."	See comment	2017/1/9 9:42
8683	Sigurd Schelstraete	225	1 9.4.2.219	91	39	T	N	91.39 9.4.2.219	The "BSS Color" field has two definitions: lines 39-42 and lines 44-47. Which is correct?	Clarify	2017/1/9 9:42
8684	Sigurd Schelstraete	225	1 9.4.2.220	93	26	E	N	93.26 9.4.2.220	Typo: change "Lenght" to "Length"	See comment	2017/1/9 9:42
8685	Sigurd Schelstraete	225	1 9.4.2.220	93	51	T	N	93.51 9.4.2.220	Change "minimum value of OCW" to "minimum value of the exponent of OCW"	See comment	2017/1/9 9:42
8686	Sigurd Schelstraete	225	1 9.4.2.220	93	60	T	N	93.60 9.4.2.220	Change "maximum value of OCW" to "maximum value of the exponent of OCW"	See comment	2017/1/9 9:42
8687	Sigurd Schelstraete	225	1 9.4.2.223	95	55	E	N	95.55 9.4.2.223	Change "STA-2-STA" to "STA-to-STA" (as e.g. on line 50)	See comment	2017/1/9 9:42
8688	Sigurd Schelstraete	225	1 9.4.2.218.5	98	5	T	N	98.05 9.4.2.218.5	Clarify sentence. Change "The PPE Thresholds Info field is (NSS M1 + 1) x Number of bits set to 1 in the RU Index Bitmask subfield x 6 bits in length." to "The PPE Thresholds Info field contains 6 x (NSS M1 + 1) bits for every bit in the RU Index Bitmask subfield that is different from zero."	See comment	2017/1/9 9:42
8689	Sigurd Schelstraete	225	1 9.7.1	107	1	T	N	107.01 9.7.1	Where is HE PPDU in (9-5)?	Change "VHT PPDU" to "VHT and HE PPDU"	2017/1/9 9:42
8690	Sigurd Schelstraete	225	1 17.2.2.1	145	24	T	Y	145.24 17.2.2.1	In Table 17-1, it says that a value of "false" for "TRIGGER_RESPONDING" means that "the MAC entity requests that the PHY entity does not have to do synchronization". In 17.2.2.6 it says that "false" means that "the MAC sublayer is requesting that the PHY entity does not do synchronization". In other words: in one case, the MAC does not require (but presumably permits) timing correction, in the other case, the MAC does not allow synchronization. It's not clear why the MAC would forbid synchronization, even if it doesn't explicitly request it.	Change definition of "TRIGGER_RESPONDING" such that it indicates that the MAC does not require synchronization, but does not forbid it either.	2017/1/9 9:42
8691	Sigurd Schelstraete	225	1 17.2.2.1	145	53	T	Y	145.53 17.2.2.1	"pre-compensate for carrier frequency offset (CFO) error and symbol clock error". Relative to what?	Indicate that correction is done relative to the reference provided by the trigger frame.	2017/1/9 9:42
8692	Sigurd Schelstraete	225	1 27.1	149	8	T	N	149.08 27.1	Shouldn't section called "Introduction" briefly summarize the purpose of the Clause? Now all it says is that "The use of HCCA and TSPEC are banned at HE STAs."	Provide brief summary of Clause 27 as part of 27.1.	2017/1/9 9:42
8693	Sigurd Schelstraete	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	One of the conditions for inter-BSS frame is: "An HE AP receives either a VHT MU PPDU or an HE MU PPDU". Does this imply that STAs can never use the MU format - even if they only transmit to one user.	Use of MU format by STAs should be clarified. Page 212, line 9 states that non-AP STAs may support "Transmission of an HE MU PPDU over partial PPDU bandwidth and full PPDU bandwidth". In that case, reception of an HE MU by the HE AP could be intra-BSS.	2017/1/9 9:42
8694	Sigurd Schelstraete	225	1 27.3.3.1	153	19	E	N	153.19 27.3.3.1	Typo: change ".." to "."	See comment	2017/1/9 9:42
8695	Sigurd Schelstraete	225	1 27.4.4.3	161	15	T	N	161.15 27.4.4.3	Improve wording "An Action frame in the DL MU PPDU is always responded with an HE trigger-based PPDU."	Change to e.g. "The response to an action frame in the DL MU PPDU is always an HE trigger-based PPDU."	2017/1/9 9:42
8696	Sigurd Schelstraete	225	1 27.5.1.1	162	49	T	N	162.49 27.5.1.1	"The transmission of each RU in an HE MU PPDU shall be padded to end at the same time". This requirement is already covered by the various decriptions of PHY and MAC padding. Since there is no further information on how to implement the padding here, it is better to change this to an informative statement.	Change to "The transmission of each RU in an HE MU PPDU are padded to end at the same time"	2017/1/9 9:42
8697	Sigurd Schelstraete	225	1 27.5.1.1	162	58	T	N	162.58 27.5.1.1	There is no "DL OFDMA With MIMO Support field" in HE Capabilities. Should this be "DL MUMIMO On Partial Bandwidth" field?	Clarify	2017/1/9 9:42

8698	Sigurd Schelstraete	225	1 27.5.1.2	163	8	T	N	163.08 27.5.1.2	"Two STA-ID fields in HE-SIG-B shall not have the same value ..." This requirements belongs in the PHY section. Replace it here with a more MAC-centric requirement (e.g. "The same user can not be scheduled in two different RU's")	See comment	2017/1/9 9:42
8699	Sigurd Schelstraete	225	1 27.5.1.3	163	20	T	N	163.20 27.5.1.3	"allocating DL MU and UL MU resources". Section 27.5.1.3 is called "HE bandwidth query report operation for DL MU". Should the title be changed or should UL MU resources be deleted?	Clarify	2017/1/9 9:42
8700	Sigurd Schelstraete	225	1 27.5.2.2.2	166	21	T	Y	166.21 27.5.2.2.2	"Number of HE-LTF Symbols is set to 1" So only single-stream transmisson is allowed?	Clarify	2017/1/9 9:42
8701	Sigurd Schelstraete	225	1 27.5.2.3	168	5	T	N	168.05 27.5.2.3	In the bullet list on page 168, sometimes we explicitly refer to the "Common field of the Trigger frame" sometimes just "The trigger Frame"	Include "Common field" in all cases	2017/1/9 9:42
8702	Sigurd Schelstraete	225	1 27.5.2.3	168	6	T	N	168.06 27.5.2.3	In the bullet list on page 168, sometimes we use "soliciting Trigger frame", sometimes "eliciting Trigger frame" or just "Trigger frame".	Use consistent wording	2017/1/9 9:42
8703	Sigurd Schelstraete	225	1 27.5.2.3	168	46	T	N	168.46 27.5.2.3	"The MCS parameter shall be set to shall be set to the value of the MCS field in the Common Info field of the eliciting Trigger frame". The MCS is not in the Common field, but the User Info field.	Correct. Also correct typo (repetition of "shall be set to")	2017/1/9 9:42
8704	Sigurd Schelstraete	225	1 27.5.2.3	168	169	T	Y	169.69 27.5.2.3	NSYM is not a TXVECTOR parameter. What is the correct requirement?	Clarify	2017/1/9 9:42
8705	Sigurd Schelstraete	225	1 27.5.2.5	171	41	T	N	171.41 27.5.2.5	Wrong reference: Table 9-XX	Correct reference	2017/1/9 9:42
8706	Sigurd Schelstraete	225	1 27.5.2.6.1	173	46	E	N	173.46 27.5.2.6.1	Typo: change "0ll" to "0 il"	See comment	2017/1/9 9:42
8707	Sigurd Schelstraete	225	1 27.5.2.7	174	22	T	Y	174.22 27.5.2.7	"NDP feedback report procedure" does not have enough detail to be implementable.	Complete definition or delete section.	2017/1/9 9:42
8708	Sigurd Schelstraete	225	1 27.6.2	176	23	E	N	176.23 27.6.2	Change "more than one APs" to "more than one AP"	See comment	2017/1/9 9:42
8709	Sigurd Schelstraete	225	1 27.6.2	176	60	T	Y	176.60 27.6.2	"the maximum number of space-time streams it can receive in an HE NDP" and "the total number of space-time streams (summed across all users) it can receive" are indicated by two different parameters in HE Capabilities, neither of which is called "Beamformee STS Capability". Reference should be made to "Beamformee STS" and "NSTS Total" fields respectively. Also note that these fields may have different values for BW<=80 and BW>80.	Replace reference to "Beamformee STS Capability field" with references to "Beamformee STS" and "NSTS Total" fields	2017/1/9 9:42
8710	Sigurd Schelstraete	225	1 27.6.2	177	1	T	N	177.01 27.6.2	"shall set the Ng field value in the STA Info field of the HE NDP Announcement frame to either 0 (for Ng = 4) or 1 (for Ng = 16).". There are no other possible values than 0 and 1, so this requirement is superfluous. There are a limited number of possible combinations of codebook and Ng however (see Table 9-25a).	Change statement to informative or delete the sentence.	2017/1/9 9:42
8711	Sigurd Schelstraete	225	1 27.6.2	177	19	T	N	177.19 27.6.2	Wrong reference: Table YY-1	Correct reference	2017/1/9 9:42
8712	Sigurd Schelstraete	225	1 27.6.2	177	35	T	Y	177.35 27.6.2	"An HE beamformer that transmits an HE NDP Announcement frame that has only one STA Info field shall set the Nc Index field to 0 and the Ng field to 0." Nc=0 and Ng=0 are still valid values, so setting them to zero does not explicitly indicate that the STA has to select the values, instead of the AP.	Add a requirement that the beamformee shall ignore the values of Nc and Ng when the HE NDP Announcement frame only has one STA Info field.	2017/1/9 9:42

8713	Sigurd Schelstraete	225	1 27.6.2	178	44	T	N	178.44 27.6.2	"Supporting MU-type feedback over full BW is mandatory for HE beamformees participating in HE sounding protocol with more than one beamformee.". STA's don't have a choice in who participates in the sounding. Does this refer to STAs declaring a specific capability? If so, clarify.	See comment. Similar comment for line 54.	2017/1/9 9:42
8714	Sigurd Schelstraete	225	1 27.6.2	178	50	E	N	178.50 27.6.2	Typo: change "parital" to "partial"	See comment (also on line 56)	2017/1/9 9:42
8715	Sigurd Schelstraete	225	1 27.6.2	178	65	T	Y	178.65 27.6.2	Add the following requirement for HE NDP feedback from the beamformee: "If the HE NDP is received with the field TxBF in HE-SIG-A set to 1, the beamformee shall not apply channel smoothing during its estimation of the channel that is used to determine the HE sounding feedback."	See comment	2017/1/9 9:42
8716	Sigurd Schelstraete	225	1 27.6.3	179	5	T	Y	179.05 27.6.3	"The HE beamformer shall support maximum MPDU length for HE Compressed beamforming feedback of size which is the minimum of:" How can the HE beamformer know which MPDU length it has to support based on this requirement? What is the minimum of 11 454 and an unknown number?	Clarify	2017/1/9 9:42
8717	Sigurd Schelstraete	225	1 27.6.4	179	31	T	Y	179.31 27.6.4	"Beamformee STS Capability field" is not defined. Use "Beamformee STS" field instead. Also note that this fields may have different values for BW<=80 and BW>80.	See comment	2017/1/9 9:42
8718	Sigurd Schelstraete	225	1 27.6.4	179	37	T	N	179.37 27.6.4	Change "destination of an HE NDP" to "RA of an HE NDP"	See comment	2017/1/9 9:42
8719	Sigurd Schelstraete	225	1 27.6.4	179	37	T	N	179.37 27.6.4	Change "source of an HE NDP" to "TA of an HE NDP"	See comment	2017/1/9 9:42
8720	Sigurd Schelstraete	225	1 27.8.3	189	39	T	N	189.39 27.8.3	"it will not respond to all variants of the Trigger frame". Should this be "it will not respond to any variants of the Trigger frame" or are there certain types of Trigger Frame it will still respond to?	Clarify	2017/1/9 9:42
8721	Sigurd Schelstraete	225	1 27.9.2.2	191	7	T	N	191.07 27.9.2.2	Where are OBSSPDmin and OBSSPDmax defined?	Clarify	2017/1/9 9:42
8722	Sigurd Schelstraete	225	1 27.9.2.2	191	36	E	N	191.36 27.9.2.2	Resolution/quality of Figure 27-6 should be improved	See comment	2017/1/9 9:42
8723	Sigurd Schelstraete	225	1 27.9.2.2	192	1	T	N	192.01 27.9.2.2	NOTE is not clear	Clarify NOTE	2017/1/9 9:42
8724	Sigurd Schelstraete	225	1 27.11.1	195	48	T	N	195.48 27.11.1	Is it correct that the STA_ID_LIST contains one element per RU? If so, add this to the description.	See comment	2017/1/9 9:42
8725	Sigurd Schelstraete	225	1 27.11.1	195	57	T	Y	195.57 27.11.1	"The AP may include only one element with this value in a DL MU PPDU.". Does this mean there can only be one RU that is intended for more than one STA? This would mean that only one RU can do MU-MIMO, regardless of the number of RU's in the HE MU frame.	If this is indeed the case, this is an unacceptable limitation. Let the AP control the number of RU's with MU-MIMO.	2017/1/9 9:42
8726	Sigurd Schelstraete	225	1 27.11.3	196	31	E	N	196.31 27.11.3	Change "or the PPDU" to "or if the PPDU"	See comment	2017/1/9 9:42
8727	Sigurd Schelstraete	225	1 27.11.3	196	31	T	N	196.31 27.11.3	Replace "number of spatial streams" with reference to TXVECTOR parameter NUM_STS	See comment	2017/1/9 9:42
8728	Sigurd Schelstraete	225	1 27.11.4	196	51	E	N	196.51 27.11.4	Change "with which it is associated or intends to transmit" to "with which it is associated or to which it intends to transmit"	See comment	2017/1/9 9:42
8729	Sigurd Schelstraete	225	1 27.15.2	201	28	T	N	201.28 27.15.2	Change "An HE AP transmits" to "An HE AP may transmit", as in the paragraph above	See comment	2017/1/9 9:42
8730	Sigurd Schelstraete	225	1 27.15.2	201	28	T	N	201.28 27.15.2	Change "An HE non-AP transmits" to "An HE non-AP may transmit", as in the paragraph above	See comment	2017/1/9 9:42

8731	Sigurd Schelstraete	225	1 28.1.1	210	60	T	N	210.60 28.1.1	Support for LDPC coding does not cover the case of 20 MHz-only STA with capability to send more than four streams. Note that for this case, LDPC is neither mandatory or optional.	Clarify requirement	2017/1/9 9:42
8732	Sigurd Schelstraete	225	1 28.1.1	211	6	T	N	211.06 28.1.1	Improve wording: "the right 106-tone RU"	As opposed to "the wrong 106-tone RU"? Even left/right is not clear when talking about frequency.	2017/1/9 9:42
8733	Sigurd Schelstraete	225	1 28.1.1	211	10	T	N	211.10 28.1.1	Beam change missing from list?	Add here if appropriate	2017/1/9 9:42
8734	Sigurd Schelstraete	225	1 28.1.1	211	16	T	N	211.16 28.1.1	Shouldn't sounding also be mandatory for APs that have to support MU-MIMO?	Clarify	2017/1/9 9:42
8735	Sigurd Schelstraete	225	1 28.1.1	211	33	T	N	211.33 28.1.1	Clarify "Reception of the payload of an HE MU PPDU over a 106-tone RU within a 20 MHz PPDU bandwidth and full bandwidth PPDU"	See comment	2017/1/9 9:42
8736	Sigurd Schelstraete	225	1 28.1.1	212	6	T	Y	212.06 28.1.1	Should CFO/power compensation etc ... be mandatory for non-AP STA that supports UL MU?	Add appropriate requirement	2017/1/9 9:42
8737	Sigurd Schelstraete	225	1 28.1.1	212	9	T	N	212.09 28.1.1	What is meant with "partial PPDU bandwidth"? An RU with an MU PPDU?	Clarify	2017/1/9 9:42
8738	Sigurd Schelstraete	225	1 28.1.1	212	9	T	N	212.09 28.1.1	Do we need a term for a non-AP STA sending an HE MU PPDU? This sounds like neither uplink nor downlink. Can it only send to the AP or to other STAs as well?	Clarify	2017/1/9 9:42
8739	Sigurd Schelstraete	225	1 28.1.3.3	213	24	T	N	213.24 28.1.3.3	"HE-PHY-compliant developer" is not clear.	Use wording as in 21.1.3.3 "The models are optimized for simplicity and clarity of presentation, but do not necessarily reflect any particular implementation."	2017/1/9 9:42
8740	Sigurd Schelstraete	225	1 28.1.4	213	49	T	N	213.49 28.1.4	"Support for the HE SU PPDU format is mandatory." No need to state this here. This bullet lists only possible formats. Mandatory vs.optional is already covered in 28.1.1.	Delete "Support for the HE SU PPDU format is mandatory."	2017/1/9 9:42
8741	Sigurd Schelstraete	225	1 28.1.4	213	52	T	N	213.52 28.1.4	"Support for the HE extended range SU PPDU format is mandatory." No need to state this here. This bullet lists only possible formats. Mandatory vs.optional is already covered in 28.1.1.	Delete "Support for the HE extended range SU PPDU format is mandatory."	2017/1/9 9:42
8742	Sigurd Schelstraete	225	1 28.1.4	213	55	T	N	213.55 28.1.4	"Support for the HE MU PPDU format is mandatory." No need to state this here. This bullet lists only possible formats. Mandatory vs.optional is already covered in 28.1.1.	Delete "Support for the HE MU PPDU format is mandatory."	2017/1/9 9:42
8743	Sigurd Schelstraete	225	1 28.1.4	213	60	T	N	213.60 28.1.4	"Support for the HE trigger-based PPDU format is mandatory." No need to state this here. This bullet lists only possible formats. Mandatory vs.optional is already covered in 28.1.1.	Delete "Support for the HE trigger-based PPDU format is mandatory."	2017/1/9 9:42
8744	Sigurd Schelstraete	225	1 28.2.2	214	25	T	N	214.25 28.2.2	Table 28-1 stretches over several pages. Repeat header row for better readability.	See comment	2017/1/9 9:42
8745	Sigurd Schelstraete	225	1 28.2.2	215	14	E	N	215.14 28.2.2	Improve wording "The value comes from ..."	"The value is derived from ..."	2017/1/9 9:42
8746	Sigurd Schelstraete	225	1 28.2.2	217	5	T	N	217.05 28.2.2	Wrong reference: 26.3.12.3.2	Correct reference	2017/1/9 9:42
8747	Sigurd Schelstraete	225	1 28.2.2	217	22	T	N	217.22 28.2.2	"VHT NDP PPDU or HE NDP PPDU". Is it the intention to allow HE PPDUs to use sounding information from VHT PPDUs? If so, shouldn't VHT PPDUs also be allowed to use HE sounding information?	Clarify	2017/1/9 9:42
8748	Sigurd Schelstraete	225	1 28.2.2	217	33	T	N	217.33 28.2.2	Should SNR be defined per RU for HE MU PPDUSs?	Clarify	2017/1/9 9:42
8749	Sigurd Schelstraete	225	1 28.2.2	217	38	T	N	217.38 28.2.2	Clarify "each spatial stream of the receiver." to distinguish it more clearly from the SU case	E.g. "For the subset of spatial streams in the PPDU that is intended for the receiver"	2017/1/9 9:42
8750	Sigurd Schelstraete	225	1 28.2.2	217	42	T	N	217.42 28.2.2	Clarify "for each spatial stream per user.". Does this imply there is only one stream per user? Does "each spatial stream per user" mean "all streams across users"?	Clarify	2017/1/9 9:42

8751	Sigurd Schelstraete	225	1 28.2.2	218	11	T	N	218.11 28.2.2	FEC_CODING support shows MU for TXVECTOR and MU for RXVECTOR (4th and 5th column). However, this will depend on the PPDU format. It would be more correct to say: - For HE SU: Y/Y - For HE MU: MU/Y - For HE_EXT_SU: Y/Y - For HE_TRIG: Y/MU	Specify per format	2017/1/9 9:42
8752	Sigurd Schelstraete	225	1 28.2.2	218	20	T	N	218.20 28.2.2	"Indicates the presence of the extra OFDM symbol" should be symbol segment since no complete symbol is added.	Correct	2017/1/9 9:42
8753	Sigurd Schelstraete	225	1 28.2.2	218	37	T	N	218.37 28.2.2	"all RUs are not STBC encoded" is ambiguous	Replace with "no RUs are STBC encoded". Similarly on line 44.	2017/1/9 9:42
8754	Sigurd Schelstraete	225	1 28.2.2	219	19	T	N	219.19 28.2.2	"it is a monotonically increasing function of the received power" is a statement of fact. It probably should be a requirement instead.	Change to make it a requirement (shall or should)	2017/1/9 9:42
8755	Sigurd Schelstraete	225	1 28.2.2	219	25	T	N	219.25 28.2.2	RSSI_LEGACY should be renamed to avoid the term "legacy" since this term is not used in the baseline document to refer to preamble types.	Rename	2017/1/9 9:42
8756	Sigurd Schelstraete	225	1 28.2.2	219	28	T	N	219.28 28.2.2	The term "PHY legacy preamble" should not be used.	Replace with "non-HE preamble fields"	2017/1/9 9:42
8757	Sigurd Schelstraete	225	1 28.2.2	219	31	T	N	219.31 28.2.2	"it is a monotonically increasing function of the received power" is a statement of fact. It probably should be a requirement instead.	Change to make it a requirement (shall or should)	2017/1/9 9:42
8758	Sigurd Schelstraete	225	1 28.2.2	219	33	T	N	219.33 28.2.2	"modulation and coding scheme" can be plural	Replace with "modulation and coding scheme(s)"	2017/1/9 9:42
8759	Sigurd Schelstraete	225	1 28.2.2	219	33	T	N	219.33 28.2.2	MCS support shows MU for TXVECTOR and MU for RXVECTOR (4th and 5th column). However, this will depend on the PPDU format. It would be more correct to say: - For HE SU: Y/Y - For HE MU: MU/Y - For HE_EXT_SU: Y/Y - For HE_TRIG: Y/MU	Correct	2017/1/9 9:42
8760	Sigurd Schelstraete	225	1 28.2.2	219	40	T	N	219.40 28.2.2	DCM support shows MU for TXVECTOR and MU for RXVECTOR (4th and 5th column). However, this will depend on the PPDU format. It would be more correct to say: - For HE SU: Y/Y - For HE MU: MU/Y - For HE_EXT_SU: Y/Y - For HE_TRIG: Y/MU	Correct	2017/1/9 9:42
8761	Sigurd Schelstraete	225	1 28.2.2	219	50	T	N	219.50 28.2.2	"HE extend range SU" should be "HE extended range SU"	Correct	2017/1/9 9:42
8762	Sigurd Schelstraete	225	1 28.2.2	219	51	T	N	219.51 28.2.2	The term SU RU is not clearly defined	Rename or provide definition	2017/1/9 9:42
8763	Sigurd Schelstraete	225	1 28.2.2	219	53	T	N	219.53 28.2.2	Replace "DCM is not applied to STBC" with "DCM is not applied in combination with STBC"	See comment	2017/1/9 9:42
8764	Sigurd Schelstraete	225	1 28.2.2	220	11	T	N	220.11 28.2.2	SIG_B_COMPRESSION_MODE is not an independent parameter. SIG-B compression is only used for full-BW MU-MIMO. Whether the PPDU is full BW MU-MIMO will follow from other fields in TXVECTOR.	Remove "SIG_B_COMPRESSION_MODE" from the Table	2017/1/9 9:42
8765	Sigurd Schelstraete	225	1 28.2.2	221	15	T	N	221.15 28.2.2	Replace "Right 106-tone RU" with "higher in frequency"	See comment	2017/1/9 9:42
8766	Sigurd Schelstraete	225	1 28.2.2	221	18	T	N	221.18 28.2.2	The term "channel bonding" has been replaced with "preamble puncturing"	Replace wording	2017/1/9 9:42
8767	Sigurd Schelstraete	225	1 28.2.2	221	18	T	N	221.18 28.2.2	The values for CH_BANDWIDTH for HE_MU format should be included in this table. Values in SIG-A should reference the values in this table, not the other way around.	Provided enumerated list with possible values.	2017/1/9 9:42
8768	Sigurd Schelstraete	225	1 28.2.2	221	24	T	N	221.24 28.2.2	What is the estimated channel width of an HE_TRIG PPDU in RXVECTOR? Isn't it already known at the AP? What would be the bandwidth if not all triggered STAs respond to the trigger? There could be many more possibilities than the ones listed.	Clarify	2017/1/9 9:42

8769	Sigurd Schelstraete	225	1 28.2.2	221	33	T	N	221.33 28.2.2	"The TXVECTOR parameter CH_BANDWIDTH does not represent the channel width of the transmitted PPDU.". It might.	Replace with "The TXVECTOR parameter CH_BANDWIDTH does not necessarily represent the channel width of the transmitted PPDU."	2017/1/9 9:42
8770	Sigurd Schelstraete	225	1 28.2.2	222	42	T	N	222.42 28.2.2	NUM_STS support in RXVECTOR is indicated as MU (column 5) for HE_MU. Does this mean that each receiver has to indicate the NUM_STS for all users in the MU PPDU? Why?	Clarify	2017/1/9 9:42
8771	Sigurd Schelstraete	225	1 28.2.2	222	46	T	N	222.46 28.2.2	"non MU-MIMO RU". Previously "SU RU" was used. Need a clear term for this type of RU.	Use unique terminology to refer to RU with only one user	2017/1/9 9:42
8772	Sigurd Schelstraete	225	1 28.2.2	222	49	T	N	222.49 28.2.2	"NUM_STS summed over all users per RU is not greater than 8." is a statement of fact. It should be a requirement.	Replace with "NUM_STS summed over all users per RU shall not be greater than 8."	2017/1/9 9:42
8773	Sigurd Schelstraete	225	1 28.2.2	222	51	T	N	222.51 28.2.2	NUM_STS support in TXVECTOR is indicated as MU (column 4) for HE_TRIG. Each Trigger-based frame has only one user.	Change "MU" to "Y"	2017/1/9 9:42
8774	Sigurd Schelstraete	225	1 28.2.2	223	25	T	N	223.25 28.2.2	Remove paragraph starting at line 25. This is too much detail and refers to B0-B7 that are not used in this section. Alse delete NOTE.	See comment	2017/1/9 9:42
8775	Sigurd Schelstraete	225	1 28.2.2	223	51	T	N	223.51 28.2.2	"Indicates whether the doppler effect should be considered for the PPDU." There is no indication anywhere in the document what this means. This requirement is not actionable.	Clarify or remove parameter.	2017/1/9 9:42
8776	Sigurd Schelstraete	225	1 28.2.2	224	20	T	N	224.20 28.2.2	RU_ALLOCATION is not explicitly indicated in the PPDU for HE_TRIG, so it can not be part of RXVECTOR.	Replace "MU" in column 5 with "N"	2017/1/9 9:42
8777	Sigurd Schelstraete	225	1 28.2.2	224	29	T	N	224.29 28.2.2	"a single user allocation in an RU". Previously terms "SU RU and "non MU-MIMO RU" were used.	Use unique terminology to refer to RU with only one user	2017/1/9 9:42
8778	Sigurd Schelstraete	225	1 28.2.2	224	38	T	N	224.38 28.2.2	The value of HE_LTF_MODE can not be chose independently from the GI_TYPE	Restrict the number of possible combinations of GI and LTF type. Either have a single parameter to list the combinations or add NOTE.	2017/1/9 9:42
8779	Sigurd Schelstraete	225	1 28.2.2	224	56	T	N	224.56 28.2.2	NUM_HE_LTF also needs to be be supported for format "HE_MU". The value is needed in HE-SIG-A for MU format.	Change "FORMAT is HE_TRIG" to "FORMAT is HE_TRIG or HE_MU"	2017/1/9 9:42
8780	Sigurd Schelstraete	225	1 28.2.2	225	52	T	N	225.52 28.2.2	Why is PREAMBLE_TYPE only specified for HE? Shouldn't TX/RXVECTOR also be updated for other types?	Clarify	2017/1/9 9:42
8781	Sigurd Schelstraete	225	1 28.2.2	226	4	T	N	226.04 28.2.2	The parameter "PE_DURATION" should be renamed "MAX_PE_DURATION", since it doesn't give the actual value of the PE field.	See Comment. Also updated\ decription.	2017/1/9 9:42
8782	Sigurd Schelstraete	225	1 28.2.2	226	13	T	N	226.13 28.2.2	BEAM_CHANGE is described as boolean value (true/false). In most other binary cases, 0/1 is used. Which is correct?	Use either boolean or 0/1 consistently.	2017/1/9 9:42
8783	Sigurd Schelstraete	225	1 28.2.2	227	4	T	N	227.04 28.2.2	Why does the MAC need to know the Scrambler Initialization value? RXVECTOR already contains CH_BANDWIDTH_IN_NON_HT and DYN_BANDWIDTH_IN_NON_HT for NON_HT format. For other formats, this value carries no information.	Remove "SCRAMBLER_INITIAL_STATE" from the Table	2017/1/9 9:42
8784	Sigurd Schelstraete	225	1 28.3.2.1	227	48	T	N	227.48 28.3.2.1	"The MU transmissions include DL MU transmissions and UL MU transmissions." What do we call an HE MU transmited by an non-AP STA? This is an allowed option (see page 212, line 9), but it appears to be neither UL or DL MU.	Clarify	2017/1/9 9:42
8785	Sigurd Schelstraete	225	1 28.3.2.1	227	50	T	N	227.50 28.3.2.1	"simultaneously transmit frames". There is only one frame. Use term PSDU instead of frame.	See comment	2017/1/9 9:42

8786	Sigurd Schelstraete	225	1 28.3.2.1	227	54	T	N	227.54 28.3.2.1	"simultaneous frames from more than one non-AP STAs.". It is allowed to trigger a sinlge STA, so it would be more correct to say "one or more non-AP STAs"	See comment	2017/1/9 9:42
8787	Sigurd Schelstraete	225	1 28.3.2.1	227	55	T	N	227.55 28.3.2.1	"Non-AP STAs transmit their frames using HE trigger-based PPDU format and employ either UL OFDMA, UL MU-MIMO, or a mixture of both." The STAs don't employ OFDMA or MU-MIMO. They simply transmit in their given RU with the requested number of HE-LTFs and are pretty much ignorant to whether MU-MIMO is applied or not.	Delete "and employ either UL OFDMA, UL MU-MIMO, or a mixture of both."	2017/1/9 9:42
8788	Sigurd Schelstraete	225	1 28.3.2.1	227	59	T	N	227.59 28.3.2.1	Replace "On an RU" with "within an RU"	See comment	2017/1/9 9:42
8789	Sigurd Schelstraete	225	1 28.3.2.1	227	64	T	N	227.64 28.3.2.1	Who is "they"?	Improve wording	2017/1/9 9:42
8790	Sigurd Schelstraete	225	1 28.3.2.1	228	1	T	N	228.01 28.3.2.1	"SU transmission" in a given RU can only be done using HE MU format. The use of the term SU in this case is confusing. We need a better term to distinguish RUs with one user vs. RUs shared by multiple users.	See comment	2017/1/9 9:42
8791	Sigurd Schelstraete	225	1 28.3.3.1	228	12	T	N	228.12 28.3.3.1	Replace "several" with "one or more". MU format can be used for one user.	See Comment. Also updated\ decription.	2017/1/9 9:42
8792	Sigurd Schelstraete	225	1 28.3.3.1	228	12	T	N	228.12 28.3.3.1	Remove "in general"	See comment	2017/1/9 9:42
8793	Sigurd Schelstraete	225	1 28.3.3.1	228	13	T	N	228.13 28.3.3.1	"In HE, the time region covers the entire data portion of an HE PPDU". No mention has been made of "time regions" so far. The need for this is not clear.	Replace "In HE, the time region covers the entire data portion of an HE PPDU, and the frequency region includes a number of contiguous subcarriers with the exception of the RUs which straddle DC where nulls are placed in the middle of the band." with "In HE, subsets consists of contiguous subcarriers called resource units (RU) with the exception of the RUs which straddle DC where nulls are placed in the middle of the band."	2017/1/9 9:42
8794	Sigurd Schelstraete	225	1 28.3.3.1	228	17	T	N	228.17 28.3.3.1	Reference to Table 28-15 should probably be Figure 28-1	Correct reference	2017/1/9 9:42
8795	Sigurd Schelstraete	225	1 28.3.3.1	228	18	T	N	228.18 28.3.3.1	Sentence starting at "Similar to OFDM. ..." is essentially repetition.	Remove sentence	2017/1/9 9:42
8796	Sigurd Schelstraete	225	1 28.3.3.1	228	20	T	N	228.20 28.3.3.1	The term "subchannelization" is only used twice on this page and nowhere else in the document.	Delete this sentence and the use of "subchannelization"	2017/1/9 9:42
8797	Sigurd Schelstraete	225	1 28.3.3.1	228	50	T	N	228.50 28.3.3.1	Sentence starting at "Subchannelization defines subchannels, ..." is essentially repetition.	Remove sentence	2017/1/9 9:42
8798	Sigurd Schelstraete	225	1 28.3.3.5	237	26	T	N	237.26 28.3.3.5	Improve wording "some RUs in 20 MHz operating STAs are restricted to be used in 40, 80, 80+80 or 160 MHz OFDMA operation."	Change to e.g. "the use of some RUs in the presence of 20 MHz operating STAs is not allowed in 40, 80, 80+80 or 160 MHz OFDMA transmissions."	2017/1/9 9:42
8799	Sigurd Schelstraete	225	1 28.3.3.5	237	34	T	N	237.34 28.3.3.5	Delete "(2 26-tone RUs are restricted)". This adds no useful information.	See comment	2017/1/9 9:42
8800	Sigurd Schelstraete	225	1 28.3.3.5	237	36	T	N	237.36 28.3.3.5	Delete "(7 26-tone RUs are restricted)". This adds no useful information.	See comment	2017/1/9 9:42
8801	Sigurd Schelstraete	225	1 28.3.3.5	237	38	T	N	237.38 28.3.3.5	Delete "(14 26-tone RUs are restricted)". This adds no useful information.	See comment	2017/1/9 9:42
8802	Sigurd Schelstraete	225	1 28.3.3.5	237	42	T	N	237.42 28.3.3.5	Delete "(2 of 52-tone RUs are restricted)". This adds no useful information.	See comment	2017/1/9 9:42
8803	Sigurd Schelstraete	225	1 28.3.3.5	237	44	T	N	237.44 28.3.3.5	Delete "(4 of 52-tone RUs are restricted)". This adds no useful information.	See comment	2017/1/9 9:42
8804	Sigurd Schelstraete	225	1 28.3.3.5	237	49	T	N	237.49 28.3.3.5	Delete "(2 of 106-tone RUs are restricted)". This adds no useful information.	See comment	2017/1/9 9:42
8805	Sigurd Schelstraete	225	1 28.3.3.5	237	50	T	N	237.50 28.3.3.5	Delete "(4 of 106-tone RUs are restricted)". This adds no useful information.	See comment	2017/1/9 9:42
8806	Sigurd Schelstraete	225	1 28.3.3.5	237	57	T	N	237.57 28.3.3.5	"all 242-tone RUs of 20 MHz operating STAs". How can there be more than one 242-tone RU in 20 MHz? What does this requirement mean?	Clarify	2017/1/9 9:42
8807	Sigurd Schelstraete	225	1 28.3.3.5	237	57	T	N	237.57 28.3.3.5	"It is optional ...". Support for an option should be indicated in e.g. Capabilities. How is support for this option communicated?	Clarify	2017/1/9 9:42

8808	Sigurd Schelstraete	225	1 28.3.3.6	238	1	T	N	238.01 28.3.3.6	"20 MHz-only" instead of "20 MHz only"?	Use one term consistenly throughout the draft	2017/1/9 9:42
8809	Sigurd Schelstraete	225	1 28.3.3.6	238	1	T	N	238.01 28.3.3.6	It seems more logical to have current section 28.3.3.6 before 28.3.3.5	Swap sections	2017/1/9 9:42
8810	Sigurd Schelstraete	225	1 28.3.3.6	238	5	T	N	238.05 28.3.3.6	"A 20 MHz only HE STA operates in the primary 20 MHz channel as a mandatory mode." is not correct language for a standard.	Change to "A 20 MHz only HE STA shall only operate in the primary 20 MHz channel."	2017/1/9 9:42
8811	Sigurd Schelstraete	225	1 28.3.3.6	238	5	T	Y	238.05 28.3.3.6	"A 20 MHz only HE STA operates in the primary 20 MHz channel as a mandatory mode." Having 20 MHz-only systems operate in only the primary channel is suboptimal. There should be an option for 20-MHz only devices to operate in any 20 MHz channels.	See comment	2017/1/9 9:42
8812	Sigurd Schelstraete	225	1 28.3.3.6	238	9	T	N	238.09 28.3.3.6	"An HE AP in 5 GHz shall be 80 MHz capable". This is already covered in 28.1.1. No need to repeat.	Delete	2017/1/9 9:42
8813	Sigurd Schelstraete	225	1 28.3.3.6	238	13	T	N	238.13 28.3.3.6	Add references to Table 28-3 to 28-5 for clarity	See comment	2017/1/9 9:42
8814	Sigurd Schelstraete	225	1 28.3.3.7	238	19	T	N	238.19 28.3.3.7	The purpose of this section is not clear or informative.	Delete 28.3.3.7	2017/1/9 9:42
8815	Sigurd Schelstraete	225	1 28.3.3.8.1	238	27	T	N	238.27 28.3.3.8.1	Change title to "Supported RU sizes for DL MU-MIMO"	See comment	2017/1/9 9:42
8816	Sigurd Schelstraete	225	1 28.3.3.8.1	238	30	T	N	238.30 28.3.3.8.1	There should be a similar requirement for transmit side (MU-MIMO only on RU sizes >= 106 tones)	Add requirement	2017/1/9 9:42
8817	Sigurd Schelstraete	225	1 28.3.3.8.1	238	30	T	N	238.30 28.3.3.8.1	Add reference to HE Capabilities field "DL MUMIMO On Partial Bandwidth"	See comment	2017/1/9 9:42
8818	Sigurd Schelstraete	225	1 28.3.3.8.2	238	38	E	N	238.38 28.3.3.8.2	Change "to minimum of" to "to the minimum of"	See comment	2017/1/9 9:42
8819	Sigurd Schelstraete	225	1 28.3.3.8.3	238	55	T	N	238.55 28.3.3.8.3	Most of the text in 28.3.3.8.3 seems to belong in either HE-SIG-A or HE-SIG-B sections. Move the relevant text to the appropriate sections and describe resource allocation in more general terms for this section.	See comment	2017/1/9 9:42
8820	Sigurd Schelstraete	225	1 28.3.3.8.3	238	60	T	N	238.60 28.3.3.8.3	Use HE-SIG-B instead of SIGB	Replace throughout the text.	2017/1/9 9:42
8821	Sigurd Schelstraete	225	1 28.3.3.8.3	239	17	T	Y	239.17 28.3.3.8.3	Paragraph starting at line 17 describes receiver operation. Transmitter behavior should be described instead.	Describe contents of HE-SIG-B from transmitter point of view.	2017/1/9 9:42
8822	Sigurd Schelstraete	225	1 28.3.3.8.3	239	38	T	N	239.38 28.3.3.8.3	"If a STA finds that it is a member of the beamformee group in RU r, its corresponding NSTS,r,u interpreted from the HE-SIG-B user specific blocks shall not be zero for the STA in the PPDU." There is no way the receiver can control the value of the HE-SIG-B user specific blocks, so this requirement as formulated for the receiver does not make sense.	Change to e.g. "If a STA is included as a a member of the beamformee group in RU r, its corresponding NSTS,r,u as contained in the HE-SIG-B user specific blocks shall not be zero."	2017/1/9 9:42
8823	Sigurd Schelstraete	225	1 28.3.3.9.1	239	46	T	N	239.46 28.3.3.9.1	Do we really need a subsection to 28.3.3.9? 28.3.3.9.1 is the only subsection here and it's only one sentence long.	Merge 28.3.3.9 and 28.3.3.9.1	2017/1/9 9:42
8824	Sigurd Schelstraete	225	1 28.3.3.9.1	239	49	T	N	239.49 28.3.3.9.1	Change "more than one" to "one or more"	See comment	2017/1/9 9:42
8825	Sigurd Schelstraete	225	1 28.3.3.9.1	239	50	T	N	239.50 28.3.3.9.1	STA should be plural	Change "The non-AP STA uses" to "The non-AP STA(s) use"	2017/1/9 9:42
8826	Sigurd Schelstraete	225	1 28.3.3.9.1	239	52	T	N	239.52 28.3.3.9.1	Mention both MU-MIMO and OFDMA in the introductory section 28.3.3.9.1	See comment	2017/1/9 9:42
8827	Sigurd Schelstraete	225	1 28.3.3.10.2	240	1	T	N	240.01 28.3.3.10.2	Change title to "Supported RU sizes for UL MU-MIMO"	See comment	2017/1/9 9:42
8828	Sigurd Schelstraete	225	1 28.3.3.10.2	240	3	T	N	240.03 28.3.3.10.2	Add reference to HE Capabilities field "UL MUMIMO -	See comment	2017/1/9 9:42
8829	Sigurd Schelstraete	225	1 28.3.3.10.2	240	6	T	N	240.06 28.3.3.10.2	There should be a similar requirement for receiver side (MU-MIMO only on RU sizes >= 106 tones)	Add requirement	2017/1/9 9:42
8830	Sigurd Schelstraete	225	1 28.3.3.10.2	240	23	E	N	240.23 28.3.3.10.2	Change "to minimum of" to "to the minimum of"	See comment	2017/1/9 9:42
8831	Sigurd Schelstraete	225	1 28.3.3.10.2	240	29	T	N	240.29 28.3.3.10.2	Clarify "A total of up to 8". Each STA individually only has knowledge of its own streams. Isn't this more a requirement on HE-LTF?	Clarify	2017/1/9 9:42
8832	Sigurd Schelstraete	225	1 28.3.3.10.2	240	39	T	N	240.39 28.3.3.10.2	Change "indicates the transmitting STAs" to "indicates to the transmitting STAs"	See comment	2017/1/9 9:42

8833	Sigurd Schelstraete	225	1 28.3.3.10.2	240	55	T	N	240.55 28.3.3.10.2	"will not transmit" should be a requirement	Change to "shall not transmit"	2017/1/9 9:42
8834	Sigurd Schelstraete	225	1 28.3.4	241	14	T	N	241.14 28.3.4	Change "that is not a response of a Trigger frame" to "when the PPDU is not a response to a Trigger Frame"	See comment	2017/1/9 9:42
8835	Sigurd Schelstraete	225	1 28.3.4	241	28	T	N	241.28 28.3.4	"HE-SIG-A field is repeated". Strictly speaking it is not simply a repetition, since the interleaving is different.	Clarify	2017/1/9 9:42
8836	Sigurd Schelstraete	225	1 28.3.4	242	4	T	N	242.04 28.3.4	SIGNAL is all-caps for L-SIG and RL-SIG, but not for HE-SIG-A and HE-SIG-B.	Use "SIGNAL" or "Signal" consistently	2017/1/9 9:42
8837	Sigurd Schelstraete	225	1 28.3.4	242	27	T	N	242.27 28.3.4	Text mentions the field HE-SIG-A-R. This is not mentioned anywhere else. Should this be used in the definition of the preamble or should be remove it?	Clarify	2017/1/9 9:42
8838	Sigurd Schelstraete	225	1 28.3.5	243	16	T	N	243.16 28.3.5	Figure 28-9 shows L-SIG, RL-SIG, HE-SIG-A. Don't' bring L-STF or L-LTF into the description.	Remove line 16 (starting at "These transmit blocks") to line 22. Similarly for lines 53 to 59.	2017/1/9 9:42
8839	Sigurd Schelstraete	225	1 28.3.5	244	31	T	N	244.31 28.3.5	Don't use term "legacy preamble".	Use e.g. non-HE preamble fields	2017/1/9 9:42
8840	Sigurd Schelstraete	225	1 28.3.5	244	31	T	N	244.31 28.3.5	"on the 20 MHz channels where the STA's HE modulated fields are located" is not clear.	Change to "on the 20 MHz channels that overlap with the RU's that are used by the HE-modulated fields"	2017/1/9 9:42
8841	Sigurd Schelstraete	225	1 28.3.5	245	29	T	N	245.29 28.3.5	Change "number of spatial stream" to "number of spatial streams"	See comment	2017/1/9 9:42
8842	Sigurd Schelstraete	225	1 28.3.6.2	249	53	T	N	249.53 28.3.6.2	For HE_MU, L-STF should only be sent in the 20 MHz channels that overlap with active RU's, so the CH_BANDWIDTH alone does not determine L-STF sequence over the full frequency.	Add special requirements for HE_MU. Similar for L-LTF, L-SIG and RL_SIG.	2017/1/9 9:42
8843	Sigurd Schelstraete	225	1 28.3.6.4	250	42	T	N	250.42 28.3.6.4	Change "in subcarriers k" to "at subcarriers locations"	See comment	2017/1/9 9:42
8844	Sigurd Schelstraete	225	1 28.3.6.4	250	47	T	N	250.47 28.3.6.4	Wrong reference: 228.3.9	Correct	2017/1/9 9:42
8845	Sigurd Schelstraete	225	1 28.3.6.5	250	59	T	N	250.59 28.3.6.5	No need to repeat copnstruction of RL-SIG. It is sufficient to mention that it is identical to L-SIG.	Delete text in section and replace with "Construction of RL-SIG is identical to construction of L-SIG"	2017/1/9 9:42
8846	Sigurd Schelstraete	225	1 28.3.6.8	253	8	T	N	253.08 28.3.6.8	There is no per-20 MHz phase rotation for HE-STF (see page 267, line 4, "In HE modulated fields, gamma_k,BW = 1 in all the subcarriers")	Remove bullet b)	2017/1/9 9:42
8847	Sigurd Schelstraete	225	1 28.3.6.9	253	32	T	N	253.32 28.3.6.9	There is no per-20 MHz phase rotation for HE-LTF (see page 267, line 4, "In HE modulated fields, gamma_k,BW = 1 in all the subcarriers")	Remove bullet b)	2017/1/9 9:42
8848	Sigurd Schelstraete	225	1 28.3.6.10.1	253	59	T	N	253.59 28.3.6.10.1	Bullet (a) needs to be rewritten to describe a step in the construction of the data field.	Change to e.g. "Construct the SERVICE field as described in 28.3.11.3 and append the PSDU to the SERVICE field"	2017/1/9 9:42
8849	Sigurd Schelstraete	225	1 28.3.6.10.1	254	9	T	N	254.09 28.3.6.10.1	The description of Segment parser is incomplete and inconsistent with e.g. 28.3.6.10.2	Use definition from 28.3.6.10.2 ("Segment parser (if needed): In a 160 MHz or 80+80 MHz transmission with a 2+996-tone RU, divide the output of each stream parser into two frequency subblocks as described in 28.3.11.6 (Stream parser). This block is bypassed for 20 MHz, 40 MHz, and 80 MHz transmissions.")	2017/1/9 9:42
8850	Sigurd Schelstraete	225	1 28.3.6.10.1	254	15	T	N	254.15 28.3.6.10.1	The description of Segment deparser is incomplete and inconsistent with e.g. 28.3.6.10.2	Use definition from 28.3.6.10.2 ("Segment deparser (if needed): In 160 MHz transmission, merge the two frequency subblocks into one frequency segment as described in 28.3.11.12 (Segment deparser). This block is bypassed for 20 MHz, 40 MHz, 80 MHz, and 80+80 MHz transmissions.")	2017/1/9 9:42
8851	Sigurd Schelstraete	225	1 28.3.6.10.1	254	24	T	N	254.24 28.3.6.10.1	There is no per-20 MHz phase rotation for data (see page 267, line 4, "In HE modulated fields, gamma_k,BW = 1 in all the subcarriers")	Remove bullet o)	2017/1/9 9:42
8852	Sigurd Schelstraete	225	1 28.3.6.10.1	254	29	T	N	254.29 28.3.6.10.1	Change "prepend a GI " to "Prepend a GI determined by the TXVECTOR parameter GI_TYPE" as in 28.3.6.11.4	See comment	2017/1/9 9:42

8853	Sigurd Schelstraete	225	1 28.3.6.10.2	254	42	T	N	254.42 28.3.6.10.2	Bullet (a) needs to be rewritten to describe a step in the construction of the data field.	Change to e.g. "Construct the SERVICE field as described in 28.3.11.3 and append the PSDU to the SERVICE field"	2017/1/9 9:42
8854	Sigurd Schelstraete	225	1 28.3.6.10.2	254	49	T	N	254.49 28.3.6.10.2	"LDPC encode with APEP_LENGTH in the TXVECTOR" is not clear	Replace bullet with: "d) LDPC encoder: LDPC encode as described in 28.3.11.5.2 (LDPC coding)."	2017/1/9 9:42
8855	Sigurd Schelstraete	225	1 28.3.6.10.2	255	12	T	N	255.12 28.3.6.10.2	There is no per-20 MHz phase rotation for data (see page 267, line 4, "In HE modulated fields, gamma_k,BW = 1 in all the subcarriers")	Remove bullet o)	2017/1/9 9:42
8856	Sigurd Schelstraete	225	1 28.3.6.10.2	255	18	T	N	255.18 28.3.6.10.2	Change "prepend a GI " to "Prepend a GI determined by the TXVECTOR parameter GI_TYPE" as in 28.3.6.11.4	See comment	2017/1/9 9:42
8857	Sigurd Schelstraete	225	1 28.3.6.11.4	255	52	T	N	255.52 28.3.6.11.4	It may be better to re-number the bullet list to run from n) to r). This makes it consistent with 28.3.6.10.1 and 28.3.6.10.2	re-number the bullet list to run from n) to r) instead of from a) to e)..	2017/1/9 9:42
8858	Sigurd Schelstraete	225	1 28.3.6.11.4	255	54	T	N	255.54 28.3.6.11.4	There is no per-20 MHz phase rotation for data (see page 267, line 4, "In HE modulated fields, gamma_k,BW = 1 in all the subcarriers")	Remove bullet b)	2017/1/9 9:42
8859	Sigurd Schelstraete	225	1 28.3.7	256	6	T	N	256.06 28.3.7	Change "For an HE MU PPDU it is carried in the HE-SIG-B field." to "For an HE MU PPDU it is carried per user in the HE-SIG-B field."	See comment	2017/1/9 9:42
8860	Sigurd Schelstraete	225	1 28.3.7	256	21	E	N	256.21 28.3.7	Start new paragraph at "HE-MCSs with indices 10 and 11 ..."	See comment	2017/1/9 9:42
8861	Sigurd Schelstraete	225	1 28.3.7	256	23	E	N	256.23 28.3.7	Start new paragraph at "The HE extended range SU PPDU ..."	See comment	2017/1/9 9:42
8862	Sigurd Schelstraete	225	1 28.3.7	256	30	T	N	256.30 28.3.7	Paragraph on DCM should be improved for clarity.	Change to e.g. "DCM is an optional modulation scheme used for the HE-SIG-B field and the Data field in an HE PPDU. The use of DCM for the HE-SIG-B field in an HE MU PPDU is indicated in HE-SIG-A. The use of DCM for the Data field in an HE SU PPDU, HE trigger-based PPDU or HE extended range SU PPDU is indicated in HE-SIG-A. The use of DCM for the Data field in an HE MU PPDU is indicated in HE-SIG-B. DCM is only applied for the HE-MCSs with indices 0, 1, 3 and 4."	2017/1/9 9:42
8863	Sigurd Schelstraete	225	1 28.3.8	256	61	T	N	256.61 28.3.8	Rename the parameter T_GI,LegacyPreamble	Use e.g. T_GI,Pre-HE. Also replace all occurrences of T_GI,Legacy in the current draft with the new term.	2017/1/9 9:42
8864	Sigurd Schelstraete	225	1 28.3.8	257	4	T	N	257.04 28.3.8	T_GI,HE-LTF and T_GI,Data reference parameters that are defined later	Move rows T_GI,HE-LTF and T_GI,Data to after row T_GI4,Data	2017/1/9 9:42
8865	Sigurd Schelstraete	225	1 28.3.8	257	26	T	N	257.26 28.3.8	Move reference ("see Table 28-14 ...") from column2 to column 3	See comment	2017/1/9 9:42
8866	Sigurd Schelstraete	225	1 28.3.8	257	40	T	N	257.40 28.3.8	Where is T_GI_SIG-A-R used?	Can this be removed?	2017/1/9 9:42
8867	Sigurd Schelstraete	225	1 28.3.8	258	4	T	N	258.04 28.3.8	Move N_service and N_tail to Table 28-12. They are not timing-related constants	See comment	2017/1/9 9:42
8868	Sigurd Schelstraete	225	1 28.3.8	258	7	T	N	258.07 28.3.8	There is no need to define T_SYML. All fields prior to HE-STF have a dedicated parameter for symbol duration (e.g. T_L-STF, T_L-LTF, ...)	Remove row "T_SYML"	2017/1/9 9:42
8869	Sigurd Schelstraete	225	1 28.3.8	258	16	T	N	258.16 28.3.8	Add definition of "non-OFDMA HE PPDU" to definition section	See comment	2017/1/9 9:42
8870	Sigurd Schelstraete	225	1 28.3.8	258	43	T	N	258.43 28.3.8	What's the use of the parameters N_DC, N_Guard,Left and N_Guard,Right in Table 28-10.	Propose to delete	2017/1/9 9:42
8871	Sigurd Schelstraete	225	1 28.3.8	259	34	T	N	259.34 28.3.8	Where is N_user,total defined?	Define before use	2017/1/9 9:42
8872	Sigurd Schelstraete	225	1 28.3.8	259	40	T	N	259.40 28.3.8	First column says N_CBPSS,u. Second column says N_CBPSS,r,u. Which is it?	Clarify	2017/1/9 9:42
8873	Sigurd Schelstraete	225	1 28.3.8	259	59	E	N	259.59 28.3.8	Start new line at "For HE modulated fields ..."	See comment	2017/1/9 9:42
8874	Sigurd Schelstraete	225	1 28.3.8	259	61	T	N	259.61 28.3.8	There is no TXVECTOR parameter NUM_RUS in Table 28-1	Clarify value of N_RU	2017/1/9 9:42
8875	Sigurd Schelstraete	225	1 28.3.8	260	6	T	N	260.06 28.3.8	There is no TXVECTOR parameter NUM_USERS_TOTAL in Table 28-1	Clarify value of NUM_USERS_TOTAL	2017/1/9 9:42

8876	Sigurd Schelstraete	225	1 28.3.8	260	10	E	N	260.10 28.3.8	Replace "at r-th RU" with " in the r-th RU"	See comment	2017/1/9 9:42
8877	Sigurd Schelstraete	225	1 28.3.8	260	15	T	N	260.15 28.3.8	Where is the value N_STS as defined for MU PPDU used?	If not used, delete	2017/1/9 9:42
8878	Sigurd Schelstraete	225	1 28.3.8	260	18	T	N	260.18 28.3.8	Clarify "total number" as "total number over all users in the RU"	See comment	2017/1/9 9:42
8879	Sigurd Schelstraete	225	1 28.3.8	260	38	T	N	260.38 28.3.8	Where is the value N_SS as defined for MU PPDU used?	If not used, delete	2017/1/9 9:42
8880	Sigurd Schelstraete	225	1 28.3.9	261	30	T	N	261.30 28.3.9	Wrong reference: 22.3.7 is TVHT	Probably 21.3.7	2017/1/9 9:42
8881	Sigurd Schelstraete	225	1 28.3.9	261	37	T	N	261.37 28.3.9	"The signal is transmitted on subcarriers -122 to -4 and 4 to 122". Not all subcarriers are necessarily used. Change to "The signal is transmitted on all or a subset of subcarriers -122 to -4 and 4 to 122"	See comment. Similar for lines 41, 44, 48	2017/1/9 9:42
8882	Sigurd Schelstraete	225	1 28.3.9	262	6	E	N	262.06 28.3.9	Change "signal of" to "signal on"	See comment	2017/1/9 9:42
8883	Sigurd Schelstraete	225	1 28.3.9	262	28	T	N	262.28 28.3.9	Instead of a single figure 28-18, have one figure for HE MU and one figure for formats that do not contain HE-SIG-B	See comment Also duplicate (28-2) for the two cases.	2017/1/9 9:42
8884	Sigurd Schelstraete	225	1 28.3.9	262	28	T	N	262.28 28.3.9	Looks like (28-3) defines a subfield, rather than a field	Change subscript to "SubField". Similarly for equation (28-4).	2017/1/9 9:42
8885	Sigurd Schelstraete	225	1 28.3.9	263	41	T	N	263.41 28.3.9	The dimensions of Q in (28-4) don't look correct. A STA transmitting N_STS,r,u streams on N_TX antennas needs a spatial mapping matrix of dimensions N_TX x N_STS,r,u. Instead, the subscript (M_r,u + m) implies that the matrix is larger.	Correct. No need for M_r,u in spatial mapping matrix (it is needed in T_CS,HE). Maybe the matrix Q needs a label depending on r,u.	2017/1/9 9:42
8886	Sigurd Schelstraete	225	1 28.3.9	264	40	E	N	264.40 28.3.9	Start new line at "For the L_SIG ..."	See comment	2017/1/9 9:42
8887	Sigurd Schelstraete	225	1 28.3.9	264	45	T	N	264.45 28.3.9	It is not clear what "and 1 otherwise" refers to.	Change to "It is 1 for all other fields"	2017/1/9 9:42
8888	Sigurd Schelstraete	225	1 28.3.9	265	17	T	N	265.17 28.3.9	"is the cardinality of the set of subcarriers modulated with data within K_r for the HE-STF and Data fields". Is this correct? In e.g. (28-109), the sum over K_r includes pilot tones.	Correct	2017/1/9 9:42
8889	Sigurd Schelstraete	225	1 28.3.9	265	38	T	N	265.38 28.3.9	Why do we need a column "Guard interval duration in Table 28-14?	Remove column	2017/1/9 9:42
8890	Sigurd Schelstraete	225	1 28.3.9	267	4	E	N	267.04 28.3.9	Change "in all subcarriers" to "for all subcarriers"	See comment	2017/1/9 9:42
8891	Sigurd Schelstraete	225	1 28.3.10.1	267	40	T	N	267.40 28.3.10.1	As shown in Figure 28-18, the pre-HE modulated fields are L_STF, L-LTF, L_SIG, RL_SIG, HE-SIG-A and HE-SIG-B. The HE portion starts at RL-SIG. This is not consistent with line 40.	Correct. Not all pre-HE modulated fields are part of HE-portion.	2017/1/9 9:42
8892	Sigurd Schelstraete	225	1 28.3.10.1	267	41	T	N	267.41 28.3.10.1	"The pre-HE modulated fields for the various HE PPDU formats are the following". Not consistent with Figure 28-18.	Make consistent	2017/1/9 9:42
8893	Sigurd Schelstraete	225	1 28.3.10.1	267	47	T	N	267.47 28.3.10.1	repeated HE-SIG-A is not a field that is defined in e.g. Table 28-8.	Remove "repeated HE-SIG-A"	2017/1/9 9:42
8894	Sigurd Schelstraete	225	1 28.3.10.2.1	267	61	T	N	267.61 28.3.10.2.1	"In UL MU transmission the cyclic shift value is based on the transmit chain index of each STA." Is it? This is not consistent with e.g. (28-15). There, per-stream CSD is used and it does not depend on the user starting stream index. I'm not even sure thaty "transmit chain index" is defined anywhere.	Clarify and make consistent	2017/1/9 9:42
8895	Sigurd Schelstraete	225	1 28.3.10.2.2	268	19	T	N	268.19 28.3.10.2.2	28.3.10.2.2 needs a description of the CS per stream for the case of UL MU-MIMO.	Add requirements for UL MU-MIMO	2017/1/9 9:42
8896	Sigurd Schelstraete	225	1 28.3.10.3	268	29	E	N	268.29 28.3.10.3	comma is missing between i_seg and i_TX in superscript of r_L-STF. This happens in many other places as well.	Add comma (here and in other signal definitions throughout the draft)	2017/1/9 9:42
8897	Sigurd Schelstraete	225	1 28.3.10.3	268	52	T	N	268.52 28.3.10.3	Wrong reference: 22.3.8.3.4	Probably 21.3.7.3	2017/1/9 9:42

8898	Sigurd Schelstraete	225	1 28.3.10.3	268	62	T	N	268.62 28.3.10.3	Break definition of Omega_20MHz in separate sentences for clarity.	e.g.: "is a set of 20 MHz channels that contains the channels where pre-HE modulated fields are located. For an HE trigger-based PPDU or HE MU PPDU with preamble puncturing, it contains one or more values within the range 0 to N20MHz +/- 1. For other HE formats the index runs from 0 to N20MHz +/- 1."		2017/1/9 9:42
8899	Sigurd Schelstraete	225	1 28.3.10.5	270	39	T	N	270.39 28.3.10.5	Include value of Length field for Trigger-based PPDUs (taken directly from Trigger frame, instead of being calculated)	See comment		2017/1/9 9:42
8900	Sigurd Schelstraete	225	1 28.3.10.5	271	3	T	N	271.03 28.3.10.5	Improve language for clarity	Change two sentences starting at "Extra 4 BPSK ..."to "d_k, k=0,..., 47 are mapped to the data tones in the range -26:26. In addition, tones [-28,-27,27,28] are also modulated with BPSK. The constellations on those tones are [-1 -1 -1 1] respectively."		2017/1/9 9:42
8901	Sigurd Schelstraete	225	1 28.3.10.5	271	49	T	N	271.49 28.3.10.5	P0 should be lower case	Change P_0 to p_0		2017/1/9 9:42
8902	Sigurd Schelstraete	225	1 28.3.10.6	272	23	T	N	272.23 28.3.10.6	"The RL-SIG field is used to identify an HE PPDU." This needs more explanation.	Clarify		2017/1/9 9:42
8903	Sigurd Schelstraete	225	1 28.3.10.7.2	273	23	T	N	273.23 28.3.10.7.2	Change "Set to 1 indicates" to "Set to 1 to indicate"	See comment		2017/1/9 9:42
8904	Sigurd Schelstraete	225	1 28.3.10.7.2	273	23	T	N	273.23 28.3.10.7.2	"pre-HE-STF portion" is not terminology used before.	Change to "pre-HE modulated fields"		2017/1/9 9:42
8905	Sigurd Schelstraete	225	1 28.3.10.7.2	273	25	T	N	273.25 28.3.10.7.2	Change "Set to 0 indicates" to "Set to 0 to indicate"	See comment		2017/1/9 9:42
8906	Sigurd Schelstraete	225	1 28.3.10.7.2	273	33	T	N	273.33 28.3.10.7.2	"This fields indicates"should be a requirement	Change to "This field shall be set to DL for ..."		2017/1/9 9:42
8907	Sigurd Schelstraete	225	1 28.3.10.7.2	274	6	T	N	274.06 28.3.10.7.2	What is the value of "SR Disallowed"?	Clarify		2017/1/9 9:42
8908	Sigurd Schelstraete	225	1 28.3.10.7.2	274	10	T	Y	274.10 28.3.10.7.2	"NOTE--This part needs further development." indicates that this feature is not sufficiently mature.	Consider decoupling SR from the remainder of the document.		2017/1/9 9:42
8909	Sigurd Schelstraete	225	1 28.3.10.7.2	274	13	T	N	274.13 28.3.10.7.2	What is the value of "SR_Delay"?	Clarify		2017/1/9 9:42
8910	Sigurd Schelstraete	225	1 28.3.10.7.2	274	34	T	N	274.34 28.3.10.7.2	"Neither DCM nor STBC shall be applied when both the DCM and STBC are set to 1.". Add this clarification to the DCM and sTBC fields as well.	See comment		2017/1/9 9:42
8911	Sigurd Schelstraete	225	1 28.3.10.7.2	275	8	T	N	275.08 28.3.10.7.2	Replace "extra OFDM Symbol" with "extra OFDM Symbol Segment" (3 occurences in third column)	See comment		2017/1/9 9:42
8912	Sigurd Schelstraete	225	1 28.3.10.7.2	275	34	T	Y	275.34 28.3.10.7.2	" Doppler mode" is not explained anywhere. This requirement is not actionable.	Either clarify or remove bit. Similar comment for Table 28-17.		2017/1/9 9:42
8913	Sigurd Schelstraete	225	1 28.3.10.7.2	276	16	T	N	276.16 28.3.10.7.2	"This fields indicates"should be a requirement	Change to "This field shall be set to DL for ..."		2017/1/9 9:42
8914	Sigurd Schelstraete	225	1 28.3.10.7.2	276	46	T	N	276.46 28.3.10.7.2	What is the value of "SR_Restricted"?	Clarify		2017/1/9 9:42
8915	Sigurd Schelstraete	225	1	277	4	T	N	277.04	Replace "full" with "contiguous" (4 occurences in third column)	See comment		2017/1/9 9:42
8916	Sigurd Schelstraete	225	1 28.3.10.7.2	277	59	T	N	277.59 28.3.10.7.2	Replace "extra OFDM Symbol" with "extra OFDM Symbol Segment" (1 occurences in first column and 1 in third column)	See comment		2017/1/9 9:42
8917	Sigurd Schelstraete	225	1 28.3.10.7.2	277	59	T	N	277.59 28.3.10.7.2	"extra OFDM Symbol" does not explain how value should be set.	Add:"Set to 1 if an extra OFDM symbol segment for LDPC is present Set to 0 if an extra OFDM symbol segment for LDPC is present"		2017/1/9 9:42
8918	Sigurd Schelstraete	225	1 28.3.10.7.2	278	8	T	N	278.08 28.3.10.7.2	Add definition of MU-MIMO RU's to definition section (see third column)	See comment		2017/1/9 9:42
8919	Sigurd Schelstraete	225	1 28.3.10.7.2	279	4	T	Y	279.04 28.3.10.7.2	A 20 MHz PPDU only occupies one of the four 20 MHz subbands. Why do all four 20 MHz subbands have the same value? Shouldn't only the primary 20 do SR. The other subbands should be open for use anyway	Clarify the requirements and NOTE 1 of Table 28-18		2017/1/9 9:42
8920	Sigurd Schelstraete	225	1 28.3.10.7.2	281	53	T	N	281.53 28.3.10.7.2	The unit of SRP in Table 28-19 can not be dBm, given that it is a sum of two values expressed in dBm (which is similar to power squared in the linear domain)	Remove "dBm" from the rows of the Table		2017/1/9 9:42

8921	Sigurd Schelstraete	225	1 28.3.10.7.2	282	29	T	Y	282.29 28.3.10.7.2	There is virtually no explanation or context on the SRP parameter or "Acceptable Receiver Interference level_AP". Notation and statements on lines 29 to 40 are far too dense to be informative.	Either clarify or relegate feature to future amendment.	2017/1/9 9:42
8922	Sigurd Schelstraete	225	1 28.3.10.7.3	282	45	E	N	282.45 28.3.10.7.3	Change :Common field" to "Common Field"	See comment	2017/1/9 9:42
8923	Sigurd Schelstraete	225	1 28.3.10.7.3	282	50	T	N	282.50 28.3.10.7.3	"x = N + 8 when the Center 26-tone RU subfield is present, and x = N + 8 - 1 otherwise" should be "x = N + 8 + 1 when the Center 26-tone RU subfield is present, and x = N + 8 otherwise". See Table 28-20.	See comment	2017/1/9 9:42
8924	Sigurd Schelstraete	225	1 28.3.10.7.3	282	51	T	N	282.51 28.3.10.7.3	"L = 20 for the HE-SIG-B user specific fields" should be "L = 21 or 42 for the HE-SIG-B user specific fields", since the CRC is calculated over two consecutive user specific fields, except for the last one.	See comment	2017/1/9 9:42
8925	Sigurd Schelstraete	225	1 28.3.10.7.3	283	4	E	N	283.04 28.3.10.7.3	Formatting problem with formula for I(D)		2017/1/9 9:42
8926	Sigurd Schelstraete	225	1 28.3.10.7.3	283	12	T	N	283.12 28.3.10.7.3	"the output is stopped at c4" is potentially confusing. Line 8 already makes it clear which bits are needed.	Remove "the output is stopped at c4"	2017/1/9 9:42
8927	Sigurd Schelstraete	225	1 28.3.10.7.4	283	34	T	N	283.34 28.3.10.7.4	Replace T_SYML with T_HE-SIG-A in (28-16), as defined in Table 28-9 (3 occurences)	See comment	2017/1/9 9:42
8928	Sigurd Schelstraete	225	1 28.3.10.7.4	284	14	T	N	284.14 28.3.10.7.4	Replace T_SYML with T_HE-SIG-A in (28-17), as defined in Table 28-9 (3 occurences)	See comment	2017/1/9 9:42
8929	Sigurd Schelstraete	225	1 28.3.10.7.4	284	35	T	N	284.35 28.3.10.7.4	Replace "the same data bits" with "identical encoded bits"	See comment	2017/1/9 9:42
8930	Sigurd Schelstraete	225	1 28.3.10.7.4	284	36	T	N	284.36 28.3.10.7.4	"The data bits of HE-SIG-A1 and HE-SIG-A3 shall be BCC encoded at rate, R = 1/2 (...) HE-SIG-A2 shall be BCC encoded at rate, R = 1/2, mapped ..." This makes it sound as if HE_SIG-A1 and HE-SIG-A2 are encoded separately, while the encoding is done over the full 52 bits.	Rewrite to make it clear that encoding is common and that only the first 52 encoded bits are then interleaved.	2017/1/9 9:42
8931	Sigurd Schelstraete	225	1 28.3.10.7.4	284	43	T	N	284.43 28.3.10.7.4	Replace "The QBPSK constellation on HE-SIG-A2 is used to differentiate between an HE extended range SU PPDU and an HE MU PPDU when m = 1 in Equation (28-11), which indicates HE MU PPDU or HE extended range SU PPDU." with "The QBPSK constellation on HE-SIG-A2 is used to differentiate between an HE extended range SU PPDU and an HE MU PPDU, which both use m=1 in (28-11)."	See comment	2017/1/9 9:42
8932	Sigurd Schelstraete	225	1 28.3.10.7.4	285	6	T	N	285.06 28.3.10.7.4	Labels in Figure 28-19 are incomplete (e.g. HE-SIG- in upper figure)	Fix	2017/1/9 9:42
8933	Sigurd Schelstraete	225	1 28.3.10.7.4	285	29	T	N	285.29 28.3.10.7.4	Replace T_SYML with T_HE-SIG-A in (28-18), as defined in Table 28-9 (3 occurences)	See comment	2017/1/9 9:42
8934	Sigurd Schelstraete	225	1 28.3.10.7.4	285	47	T	N	285.47 28.3.10.7.4	Replace T_SYML with T_HE-SIG-A in (28-18), as defined in Table 28-9 (3 occurences)	See comment	2017/1/9 9:42
8935	Sigurd Schelstraete	225	1 28.3.10.8.1	285	60	T	N	285.60 28.3.10.8.1	"The HE-SIG-B field is separately encoded on each 20 MHz band.". This is not correct.	Replace with a better description, i.e.: two content channels repeated over up to eight 20 MHz subbands. This would be a good place to introduce the concept of content channels BTW.	2017/1/9 9:42
8936	Sigurd Schelstraete	225	1 28.3.10.8.1	286	6	T	N	286.06 28.3.10.8.1	Figure is hard to read	Replace with better illustration of HE-SIG-B field	2017/1/9 9:42
8937	Sigurd Schelstraete	225	1 28.3.10.8.2	286	54	E	N	286.54 28.3.10.8.2	Change "fall between" to "fall in the range"	See comment	2017/1/9 9:42
8938	Sigurd Schelstraete	225	1 28.3.10.8.2	286	55	E	N	286.55 28.3.10.8.2	Change "fall between" to "fall in the range"	See comment	2017/1/9 9:42
8939	Sigurd Schelstraete	225	1 28.3.10.8.2	287	17	T	N	287.17 28.3.10.8.2	The explanation on lines 17 to 22 would be clearer by explicitly indicating the indices of the 242-tone RU. E.g.: content channel 1 on RU with indices -500:-259, content channel 2 on indices -258:-17, with CC1 repeated on 17:58, ...	Clarify text by explicitly using the subcarrier indices	2017/1/9 9:42
8940	Sigurd Schelstraete	225	1 28.3.10.8.2	287	35	E	N	287.35 28.3.10.8.2	Start new line before "The same value for the bit signaling ..."	See comment	2017/1/9 9:42

8941	Sigurd Schelstraete	225	1 28.3.10.8.2	287	40	T	Y	287.40 28.3.10.8.2	"When RUs greater than 242 subcarriers are signaled in the RU allocation signaling in a portion of the bandwidth, the signaling is carried in both content channels placed in the order of the absolute subcarrier index.". I do not understand the requirement expressed here. Please clarify.	Clarify		2017/1/9 9:42
8942	Sigurd Schelstraete	225	1 28.3.10.8.2	288	1	T	N	288.01 28.3.10.8.2	Clarify description of 160 MHz mapping of content channels by explicitly refering to indices of RU's (lines 1 to 5)	See comment		2017/1/9 9:42
8943	Sigurd Schelstraete	225	1 28.3.10.8.3	288	58	E	N	288.58 28.3.10.8.3	Change "tail bits added" to "tail bits appended"	See comment		2017/1/9 9:42
8944	Sigurd Schelstraete	225	1 28.3.10.8.3	288	63	T	N	288.63 28.3.10.8.3	Change "the bits corresponding to two STAs (i.e. two User fields) are encoded together" to "two User Fields are combined into a User Block Field".	See comment		2017/1/9 9:42
8945	Sigurd Schelstraete	225	1 28.3.10.8.3	288	64	T	N	288.64 28.3.10.8.3	Delete "the STAs scheduled in the HE MU PPDU are split into groups of two". This is repetition and there is no need to mention HE MU, since this is the only format that has HE-SIG-B.	See comment		2017/1/9 9:42
8946	Sigurd Schelstraete	225	1 28.3.10.8.3	289	1	T	N	289.01 28.3.10.8.3	Replace "group of two user fields" with "User Block field"	See comment		2017/1/9 9:42
8947	Sigurd Schelstraete	225	1 28.3.10.8.3	289	13	T	N	289.13 28.3.10.8.3	"When the code rate of the HE-SIG-B MCS is not equal to 1/2", Make it clear that bits from both common field and user specific field need to be concatenated before the puncturing.	See comment		2017/1/9 9:42
8948	Sigurd Schelstraete	225	1 28.3.10.8.3	289	36	T	N	289.36 28.3.10.8.3	Replace T_SYML with T_HE-SIG-B in (28-20), as defined in Table 28-9 (2 occurences)	See comment		2017/1/9 9:42
8949	Sigurd Schelstraete	225	1 28.3.10.8.3	289	57	T	N	289.57 28.3.10.8.3	Wrong reference: parameters are defined in 21.3.7.3	Correct reference		2017/1/9 9:42
8950	Sigurd Schelstraete	225	1 28.3.10.8.3	290	13	E	N	290.13 28.3.10.8.3	typo: change "his" to "is"	Correct		2017/1/9 9:42
8951	Sigurd Schelstraete	225	1 28.3.10.8.4	290	32	T	N	290.32 28.3.10.8.4	Change "user fields in each RU" to "users in each RU"	See comment		2017/1/9 9:42
8952	Sigurd Schelstraete	225	1 28.3.10.8.4	290	43	T	N	290.43 28.3.10.8.4	Improve wording. Change "Set to 1 to indicate that the center 26-tone RU is allocated in the Common Block fields of both HE-SIG-B content channels with the same value. Set to 0, otherwise." to "Set to 1 to indicate that a user is allocated to the center 26-tone RU. Set to 0 otherwise. Use the same value in both content channels."	See comment		2017/1/9 9:42
8953	Sigurd Schelstraete	225	1 28.3.10.8.4	290	48	T	N	290.48 28.3.10.8.4	Improve wording. Change "Set to 1 to indicate that the center 26-tone RU is allocated for one individual 80 MHz in the Common Block fields of both HE-SIG-B content channels. Set to 0, otherwise." to "Set to 1 to indicate that a user is allocated to the center 26-tone RU. Set to 0 otherwise. Each content channel carries the value for one 80 MHz segment."	See comment		2017/1/9 9:42
8954	Sigurd Schelstraete	225	1 28.3.10.8.4	291	8	T	N	291.08 28.3.10.8.4	Change "user fields per RU" to "users per RU"	See comment		2017/1/9 9:42
8955	Sigurd Schelstraete	225	1 28.3.10.8.4	292	30	T	N	292.30 28.3.10.8.4	Why is the description of code 01110001 "242-tone RU empty", but code 01110010 is "484-tone RU with zero HE-SIG-B User Specific field". Use consistent description for "empty" arrangements.	See comment		2017/1/9 9:42
8956	Sigurd Schelstraete	225	1 28.3.10.8.4	292	32	E	N	292.32 28.3.10.8.4	Change "field" to "fields"	See comment		2017/1/9 9:42
8957	Sigurd Schelstraete	225	1 28.3.10.8.4	292	36	E	N	292.36 28.3.10.8.4	Change "field" to "fields"	See comment		2017/1/9 9:42
8958	Sigurd Schelstraete	225	1 28.3.10.8.4	293	37	T	N	293.37 28.3.10.8.4	Change "assignment to the user" to "assignment to each user"	See comment		2017/1/9 9:42
8959	Sigurd Schelstraete	225	1 28.3.10.8.4	293	42	T	N	293.42 28.3.10.8.4	Change "assignment to the user" to "assignment to each user"	See comment		2017/1/9 9:42
8960	Sigurd Schelstraete	225	1 28.3.10.8.4	293	49	T	N	293.49 28.3.10.8.4	Change "Use Specific" to "User Specific"	See comment		2017/1/9 9:42
8961	Sigurd Schelstraete	225	1 28.3.10.8.4	294	25	T	N	294.25 28.3.10.8.4	Change "The contents of the User field differ based on ..." to "The contents of the User fields differ depending on ..."	See comment		2017/1/9 9:42

8962	Sigurd Schelstraete	225	1 28.3.10.8.4	295	1	T	N	295.01 28.3.10.8.4	Change "HE-SIG-B user field" to "user field" for consistency	See comment. Same comment for line 2 and 6	2017/1/9 9:42
8963	Sigurd Schelstraete	225	1 28.3.10.8.4	295	1	T	N	295.01 28.3.10.8.4	Use consistent wording. An RU with only one user has been referred to as "single STA in an RU" (page 294.25), ""field for an SU allocation" (page 295.1), "field for a non-MU-MIMO allocation" (page 295.6)	Decide on naming for an RU with one user.	2017/1/9 9:42
8964	Sigurd Schelstraete	225	1 28.3.10.8.4	295	12	T	N	295.12 28.3.10.8.4	STAID or STA-ID?	Use one term consistenly in third column.	2017/1/9 9:42
8965	Sigurd Schelstraete	225	1 28.3.10.8.4	295	29	T	N	295.29 28.3.10.8.4	Change "the RU carries no data" to "no user is assigned to the RU"	See comment	2017/1/9 9:42
8966	Sigurd Schelstraete	225	1 28.3.10.8.4	296	6	T	N	296.06 28.3.10.8.4	Change "the payload of the HE MU PPDU is modulated with dual carrier modulation" to "the payload of the corresponding user of the HE MU PPDU is modulated with dual carrier modulation"	See comment	2017/1/9 9:42
8967	Sigurd Schelstraete	225	1 28.3.10.8.4	296	37	E	N	296.37 28.3.10.8.4	Change "indication for" to "indication of"	See comment	2017/1/9 9:42
8968	Sigurd Schelstraete	225	1 28.3.10.8.4	296	48	T	N	296.48 28.3.10.8.4	Change "the payload of the HE MU PPDU is modulated with dual carrier modulation" to "the payload of the corresponding user of the HE MU PPDU is modulated with dual carrier modulation"	See comment	2017/1/9 9:42
8969	Sigurd Schelstraete	225	1 28.3.10.9	298	38	T	N	298.38 28.3.10.9	Change "HE PPDUs except HE trigger-based PPDUs" to "HE PPDUs that are not HE trigger-based PPDUs". This occurs in numerous places in this section	See comment	2017/1/9 9:42
8970	Sigurd Schelstraete	225	1 28.3.10.9	298	44	T	Y	298.44 28.3.10.9	Don't use such an abstract definition of the tones for HE-STF. List the tones instead.	The tones are -112:16:112, -240:16:240, -496:16:496 for 20, 40, 80 MHz respectively for PPDUs tahta rte not trigger-based and -120:8:120, -248:8:248, -504:8:504 for Trigger-based PPDUs.	2017/1/9 9:42
8971	Sigurd Schelstraete	225	1 28.3.10.9	300	24	T	N	300.24 28.3.10.9	Change "tone indices for which no RUs are defined" to "tone indices that fall within RU's that have no user(s) assigned to them"	See comment	2017/1/9 9:42
8972	Sigurd Schelstraete	225	1 28.3.10.9	300	29	E	N	300.29 28.3.10.9	Change "of transmit chain" to "and transmit chain"	See comment	2017/1/9 9:42
8973	Sigurd Schelstraete	225	1 28.3.10.9	301	2	E	N	301.02 28.3.10.9	Change "of transmit chain" to "and transmit chain"	See comment	2017/1/9 9:42
8974	Sigurd Schelstraete	225	1 28.3.10.9	301	10	T	Y	301.10 28.3.10.9	The dimensions of Q in (28-35) don't look correct. A STA transmitting N_STS,r,u streams on N_TX antennas needs a spatial mapping matrix of dimensions N_TX x N_STS,r,u. Instead, the subscript (M_r,u + m) implies that the matrix is larger.	Correct. No need for M_r,u in spatial mapping matrix (it is needed in T_CS,HE). Maybe the matrix Q needs a label depending on r,u. Same issue exists for HE-LTF and Data for Trigger-based PPDUs.	2017/1/9 9:42
8975	Sigurd Schelstraete	225	1 28.3.10.10	301	40	T	N	301.40 28.3.10.10	Delete "with more than one RU"	See comment	2017/1/9 9:42
8976	Sigurd Schelstraete	225	1 28.3.10.10	301	48	T	N	301.48 28.3.10.10	Change "transmission of 1x HE-LTF" to "1x HE-LTF mode" for consistentcy with previous sentence	See comment	2017/1/9 9:42
8977	Sigurd Schelstraete	225	1 28.3.10.10	302	7	E	N	302.07 28.3.10.10	Change "is defined" to "and is defined"	See comment	2017/1/9 9:42
8978	Sigurd Schelstraete	225	1 28.3.10.10	302	8	T	N	302.08 28.3.10.10	"HE-LTF symbol duration". Previosuly, the term HE-LTF mode was used. Use one term consistently.	See comment	2017/1/9 9:42
8979	Sigurd Schelstraete	225	1 28.3.10.10	302	22	T	N	302.22 28.3.10.10	Delete "transmitted and located"	See comment. Similar change on page 302.39, page 303.1, page 303.21, page 304.1, page 304.30, page 305.1, page 306.1, page 307.1,	2017/1/9 9:42
8980	Sigurd Schelstraete	225	1 28.3.10.10	308	15	E	N	308.15 28.3.10.10	Introduce line break after line 15 and add the word: "where:" to introduce definitions of LTF_80MHz_left_1x and LTF_80MHz_right_1x	See comment	2017/1/9 9:42
8981	Sigurd Schelstraete	225	1 28.3.10.10	309	10	E	N	309.10 28.3.10.10	Introduce line break after line 10 and add the word: "where:" to introduce definitions of LTF_80MHz_part1_2x, ...	See comment	2017/1/9 9:42
8982	Sigurd Schelstraete	225	1 28.3.10.10	310	60	T	N	310.60 28.3.10.10	Change "For an 80+80 MHz transmission" to "For an 80+80 MHz transmission using 1x HE-LTF"	See comment	2017/1/9 9:42
8983	Sigurd Schelstraete	225	1 28.3.10.10	311	1	T	N	311.01 28.3.10.10	Change "For an 80+80 MHz transmission" to "For an 80+80 MHz transmission using 2x HE-LTF"	See comment	2017/1/9 9:42

8984	Sigurd Schelstraete	225	1 28.3.10.10	311	6	T	N	311.06 28.3.10.10	Change "For an 80+80 MHz transmission" to "For an 80+80 MHz transmission using 4x HE-LTF"	See comment	2017/1/9 9:42
8985	Sigurd Schelstraete	225	1 28.3.10.10	311	11	T	Y	311.11 28.3.10.10	The masking described in (28-53) would benefit from a little more explanation. Currently the text is not very clear.	Clarify	2017/1/9 9:42
8986	Sigurd Schelstraete	225	1 28.3.10.10	313	5	T	N	313.05 28.3.10.10	"neither masking by orthogonal code nor single stream pilot are not used.". What does this mean? Neither is used? Avoid double negation for clarity.	Clarify	2017/1/9 9:42
8987	Sigurd Schelstraete	225	1 28.3.10.10	313	10	E	N	313.10 28.3.10.10	Change "of transmit chain" to "and transmit chain"	See comment	2017/1/9 9:42
8988	Sigurd Schelstraete	225	1 28.3.10.10	313	28	E	N	313.28 28.3.10.10	Change "of transmit chain" to "and transmit chain"	See comment	2017/1/9 9:42
8989	Sigurd Schelstraete	225	1 28.3.10.10	314	1	T	N	314.01 28.3.10.10	"When a 1x, 2x or 4x HE-LTF is transmitted". This means always, since these are the only HE-LTF modes that are defined.	Delete "When a 1x, 2x or 4x HE-LTF is transmitted"	2017/1/9 9:42
8990	Sigurd Schelstraete	225	1 28.3.10.10	314	1	T	N	314.01 28.3.10.10	Is this paragraph in the right place? Why is this specific to HE-LTF. The spatial mapping matrix is applied starting at HE-STF.	Move paragraph to more appropriate section.	2017/1/9 9:42
8991	Sigurd Schelstraete	225	1 28.3.10.11.1	314	12	T	N	314.12 28.3.10.11.1	"The number of OFDM symbols in the Data field is determined by the Length field in L-SIG". Actually it's the other way around. The value in L-SIG is determined (among others things) by the number of OFDM symbols. The first sentence seems to describe receiver operation.	Delete sentence	2017/1/9 9:42
8992	Sigurd Schelstraete	225	1 28.3.10.11.2	314	31	E	N	314.31 28.3.10.11.2	Change "on all" to "for all"	See comment	2017/1/9 9:42
8993	Sigurd Schelstraete	225	1 28.3.10.11.2	314	31	E	N	314.31 28.3.10.11.2	Change "with" to "consisting of"	See comment	2017/1/9 9:42
8994	Sigurd Schelstraete	225	1 28.3.10.11.2	315	31	T	N	315.31 28.3.10.11.2	Delete the word "excess" from "excess bits in the last OFDM symbol". These are simply the bits in the last OFDM symbol.	See comment	2017/1/9 9:42
8995	Sigurd Schelstraete	225	1 28.3.10.11.2	316	52	T	N	316.52 28.3.10.11.2	"the MAC delivers a PSDU that fills the available octets ...". Add reference to A-MPDU padding (27.10.2 & 27.10.3).	See comment	2017/1/9 9:42
8996	Sigurd Schelstraete	225	1 28.3.10.11.4	317	21	T	N	317.21 28.3.10.11.4	Change "PHY padding" to "pre-FEC PHY padding"	See comment	2017/1/9 9:42
8997	Sigurd Schelstraete	225	1 28.3.10.11.5	317	41	T	N	317.41 28.3.10.11.5	"Mandatory/optional support for LDPC is already covered in detail in section 28.1". No need to repeat it here.	Delete paragraph starting at line 41.	2017/1/9 9:42
8998	Sigurd Schelstraete	225	1 28.3.10.11.5.2	318	42	T	N	318.42 28.3.10.11.5.2	move (28-70) to beginning of section 28.3.11.5.2 (i.e. define N_sym,init first)	Start section 28.3.10.11.5.2 with "The initial number of OFDM symbols in the Data field with LDPC encoding in an HE SU PPDU is calculated using Equation (28-xx)." Then define N_sym,init	2017/1/9 9:42
8999	Sigurd Schelstraete	225	1 28.3.10.11.5.2	318	61	T	N	318.61 28.3.10.11.5.2	Change "and increment Navbits by the following Equation (28-72) instead of Equations (19-39)," to "Navbits shall be incremented according to Equation (28-72) instead of Equation (19-39)."	See comment	2017/1/9 9:42
9000	Sigurd Schelstraete	225	1 28.3.10.11.5.2	318	62	T	N	318.62 28.3.10.11.5.2	Start new sentence instead of ", followed by recomputing Npunc as in Equation (19-40):"	Replace with "After this, the number of punctured bits N_punc shall be calculated as in Equation (19-40)."	2017/1/9 9:42
9001	Sigurd Schelstraete	225	1 28.3.10.11.5.2	319	23	T	N	319.23 28.3.10.11.5.2	Change "update" to "calculate". No value for N_CBPS,LAST has been calculated so far.	See comment	2017/1/9 9:42
9002	Sigurd Schelstraete	225	1 28.3.10.11.5.2	319	30	T	N	319.30 28.3.10.11.5.2	Delete "For completeness,"	See comment	2017/1/9 9:42
9003	Sigurd Schelstraete	225	1 28.3.10.11.5.4	320	42	E	N	320.42 28.3.10.11.5.4	Change "where" to "for which"	See comment	2017/1/9 9:42
9004	Sigurd Schelstraete	225	1 28.3.10.11.5.4	320	63	T	N	320.63 28.3.10.11.5.4	Change "pre-FEC padding factor" to "pre-FEC padding factor a"	See comment	2017/1/9 9:42
9005	Sigurd Schelstraete	225	1 28.3.10.11.5.4	321	6	T	N	321.06 28.3.10.11.5.4	Change "If among all the users" to "If for none of the users"	See comment	2017/1/9 9:42
9006	Sigurd Schelstraete	225	1 28.3.10.11.6	323	1	T	N	323.01 28.3.10.11.6	Change "Note that for all RU sizes the coded bits of each OFDM symbol" to "Note that for all RU sizes the coded bits per OFDM symbol and per RU size"	See comment	2017/1/9 9:42
9007	Sigurd Schelstraete	225	1 28.3.10.11.6	323	1	T	N	323.01 28.3.10.11.6	"evenly allocated" is not clear. Does this mean "is always a multiple of N_SS"?	Clarify	2017/1/9 9:42

9008	Sigurd Schelstraete	225	1 28.3.10.11.7	323	24	T	N	323.24 28.3.10.11.7	"output bits of each stream parser" should be "output bits of the segment parser"	Correct	2017/1/9 9:42
9009	Sigurd Schelstraete	225	1 28.3.10.11.7	323	33	T	N	323.33 28.3.10.11.7	Change "frequency subblock" to "frequency segment"	See comment (also on lines 34, 39, 51 and 52)	2017/1/9 9:42
9010	Sigurd Schelstraete	225	1 28.3.10.11.8	324	4	T	Y	324.04 28.3.10.11.8	"1 padding bit is added before the bits are interleaved.". Should this bit also be removed after interleaving?	Clarify	2017/1/9 9:42
9011	Sigurd Schelstraete	225	1 28.3.10.11.8	324	32	T	N	324.32 28.3.10.11.8	"The interleaver parameters NCOL and NROW, for the HE-SIG-A and HE-SIG-B fields". Why is this paragraph in the data section?	Move HE-SIG-A and HE-SIG-B related requirements to the appropriate sections	2017/1/9 9:42
9012	Sigurd Schelstraete	225	1 28.3.10.11.9	325	31	T	N	325.31 28.3.10.11.9	I literally can't read the bit encoding shown in Figures 28-30 to 28-33. Either improve quatlity of the figures or find another way to define the encoding.	See comment	2017/1/9 9:42
9013	Sigurd Schelstraete	225	1 28.3.11.10	327	51	T	N	327.51 28.3.11.10	First sentence not needed. Delete "This subclause ... using STBC coding"	See comment	2017/1/9 9:42
9014	Sigurd Schelstraete	225	1 28.3.11.11	329	47	T	N	329.47 28.3.11.11	Error in reference	Fix reference	2017/1/9 9:42
9015	Sigurd Schelstraete	225	1 28.3.11.13	330	54	T	N	330.54 28.3.11.13	Pilot indices are already listed in Table 28-7. It is better not to duplicate this information.	Remove Table 28-29 and replace with reference to Table 28-7. Similar comment for Tables 28-31, 28-33, 28-34, 28-36, 28-37	2017/1/9 9:42
9016	Sigurd Schelstraete	225	1 28.3.11.13	331	19	T	N	331.19 28.3.11.13	Notation P^KR26i_n is not clear, since the superscript elsewhere denotes a single tone index. Replace with P^k_n and specify that k belongs to K_R26i. Similar for indices that do not belong to K_R26i. (Also occurs in many other places in this section)	See comment	2017/1/9 9:42
9017	Sigurd Schelstraete	225	1 28.3.11.13	331	49	T	N	331.49 28.3.11.13	Typo: PPD BW. Replace with "PPDU BW"	See comment. Also in Tables 28-33, 28-34, 28-36, 28-37	2017/1/9 9:42
9018	Sigurd Schelstraete	225	1 28.3.11.13	332	22	E	N	332.22 28.3.11.13	Replace "in subcarriers" with "at subcarriers"	See comment	2017/1/9 9:42
9019	Sigurd Schelstraete	225	1 28.3.11.13	334	30	T	N	334.30 28.3.11.13	"For a 996-tone RU transmission, the pilot mapping for its 16 pilots is the same as the mapping for 484-tone RU transmission.". How can this be? This does not sound correct.	Clarify or correct.	2017/1/9 9:42
9020	Sigurd Schelstraete	225	1 28.3.11.14	336	55	T	N	336.55 28.3.11.14	"Q is a spatial mapping/steering matrix with NTX rows and NSTS,r,total columns". The number of columns does not need to be NSTS,r,total for a trigger-based PPDU.	add "for HE PPDUs that are not Trigger-based"	2017/1/9 9:42
9021	Sigurd Schelstraete	225	1 28.3.12	337	18	T	Y	337.18 28.3.12	It is stated that the content of the Packet Extension is arbitrary. Is it really? Wouldn't it have to be spectrally contained to the same RU(s) at least?	Clarify	2017/1/9 9:42
9022	Sigurd Schelstraete	225	1 28.3.12	338	41	T	N	338.41 28.3.12	Add reference to Trigger frame after "Common Info field of the Trigger frame" (section 9.3.1.23)	See comment	2017/1/9 9:42
9023	Sigurd Schelstraete	225	1 28.3.12	339	1	T	N	339.01 28.3.12	Agree with Editor's note: move lines 3 to 37 to HE-SIG-A section	See comment	2017/1/9 9:42
9024	Sigurd Schelstraete	225	1 28.3.12	339	58	T	N	339.58 28.3.12	text starting on line 58 of page 339 and ending on line 19 of page 340 belongs in HE receive procedure (28.3.20)	Move text to 28.3.20	2017/1/9 9:42
9025	Sigurd Schelstraete	225	1 28.3.13	340	30	T	N	340.30 28.3.13	BEAM_CHANGE is not defined when PPDU format NON_HT (see Table 28-1), so it's not clear how to interpret this requirement.	Remove sentence starting at "The L-STF ..."	2017/1/9 9:42
9026	Sigurd Schelstraete	225	1 28.3.14.2	341	14	E	N	341.14 28.3.14.2	Font changes in the word "Target_RSSI"	Fix	2017/1/9 9:42
9027	Sigurd Schelstraete	225	1 28.3.14.2	341	34	T	N	341.34 28.3.14.2	Don't use term "legacy preamble"	Replace with e.g. pre-HE modulated fields	2017/1/9 9:42
9028	Sigurd Schelstraete	225	1 28.3.14.3	342	49	T	N	342.49 28.3.14.3	Start new subsection starting at line 49 (28.3.14.4 CFO pre-compensation)	See comment	2017/1/9 9:42
9029	Sigurd Schelstraete	225	1 28.3.15.2	344	13	T	N	344.13 28.3.15.2	"SNR" should be "Delta SNR"	Correct	2017/1/9 9:42
9030	Sigurd Schelstraete	225	1 28.3.15.3	344	22	T	N	344.22 28.3.15.3	Wrong reference: CQI-only feedback is described in 9.4.1.65.	Correct reference	2017/1/9 9:42

9031	Sigurd Schelstraete	225	1 28.3.16	344	56	T	N	344.56 28.3.16	Add the allowed HE-LTF modes for an HE-NDP in the bullet list.	See comment	2017/1/9 9:42
9032	Sigurd Schelstraete	225	1 28.3.17.3	345	64	T	N	345.64 28.3.17.3	Unknown reference: Table xx-a	Replace with correct reference	2017/1/9 9:42
9033	Sigurd Schelstraete	225	1 28.3.17.3	346	2	T	N	346.02 28.3.17.3	"of the frequency segment lower in the frequency of the desired signal." is not clear. Replace with "of the frequency segment of the desired signal that is lowest in frequency"	See comment	2017/1/9 9:42
9034	Sigurd Schelstraete	225	1 28.3.17.6.4	349	16	E	N	349.16 28.3.17.6.4	lots of white space on line 16	Correct	2017/1/9 9:42
9035	Sigurd Schelstraete	225	1 28.3.17.6.4	349	21	T	N	349.21 28.3.17.6.4	Where is OBSS_PD used in this formula defined? Provide reference.	See comment	2017/1/9 9:42
9036	Sigurd Schelstraete	225	1 28.3.17.6.4	349	36	T	N	349.36 28.3.17.6.4	Does detection in the seconday 40 use the same OBSS_PD as detection in a 20 MHz subchannel of the secondary 40 (see lines 36 and 40)? Shouldn't the levels be different.	Clarify	2017/1/9 9:42
9037	Sigurd Schelstraete	225	1 28.3.18.1	350	6	T	Y	350.06 28.3.18.1	"The bandwidth of the spectral mask applied to an HE PPDU shall be determined by the bandwidth indicated in the Bandwidth subfield of the HE-SIG-A field.". This is different from e.g. VHT, where a 20 MHz PPDU could be sent with an 80 MHz mask (see e.g. defintion of 80 MHz mask PPDU). Why the change?	If no compelling reason for changing relative to VHT, delete first sentence of 28.3.18.1	2017/1/9 9:42
9038	Sigurd Schelstraete	225	1 28.3.18.1	353	55	T	N	353.55 28.3.18.1	Update definition of 80 MHz mask PPDU (definition section) to cover the case of preamble puncturing.	See comment	2017/1/9 9:42
9039	Sigurd Schelstraete	225	1 28.3.18.1	355	25	T	N	355.25 28.3.18.1	Change "all transmission modes" to "all transmission modes except 80+80 MHz where the RF LO falls outside both frequency segments"	See comment	2017/1/9 9:42
9040	Sigurd Schelstraete	225	1 28.3.19	360	14	E	N	360.14 28.3.19	In first paragraph of 28.3.19, mention Figure 28-43 before Figure 28-44.	See comment	2017/1/9 9:42
9041	Sigurd Schelstraete	225	1 28.3.19	360	48	T	N	360.48 28.3.19	Figure 128-43 and subsequent figures do not show post-FEC padding.	Add post-FEC padding to figures.	2017/1/9 9:42
9042	Sigurd Schelstraete	225	1 28.3.19	362	44	T	N	362.44 28.3.19	Wrong reference: 26.2.x	See comment	2017/1/9 9:42
9043	Sigurd Schelstraete	225	1 28.3.19	364	51	T	N	364.51 28.3.19	Figure 28-46 should include post-FEC padding.	Add post-FEC padding (most liekly in box "Padding & Tail")	2017/1/9 9:42
9044	Sigurd Schelstraete	225	1 28.3.20	364	61	T	N	364.61 28.3.20	Change Non-HT to NON_HT	See comment	2017/1/9 9:42
9045	Sigurd Schelstraete	225	1 28.3.20	365	5	T	N	365.05 28.3.20	The term "cell" is used here without explanation or reference.	Explain "cell" or replace with a better term	2017/1/9 9:42
9046	Sigurd Schelstraete	225	1 28.3.20	365	12	T	N	365.12 28.3.20	Shouldn't CS/CCA state In Figure 28-47 end after reception of PHY-CCA.Indication?	Improve Figure to show correct end of CS/CCA state.	2017/1/9 9:42
9047	Sigurd Schelstraete	225	1 28.3.20	365	30	T	N	365.30 28.3.20	Show post-FEC padding in Figure 28-47	See comment	2017/1/9 9:42
9048	Sigurd Schelstraete	225	1 28.3.20	368	49	E	N	368.49 28.3.20	Change "No filtered out" in Figure 28-51 to "not filtered out" (3 occurences)	See comment	2017/1/9 9:42
9049	Sigurd Schelstraete	225	1 28.3.20	369	11	T	N	369.11 28.3.20	"The PHY includes the most recently measured RSSI value". Which one, the one measure during L-STf or HE-STF? Figure 28-47 shows RSSI measurements at two places.	Clarify	2017/1/9 9:42
9050	Sigurd Schelstraete	225	1 28.3.20	369	30	E	N	369.30 28.3.20	Change "meet" to "meets"	see comment	2017/1/9 9:42
9051	Sigurd Schelstraete	225	1 28.3.20	370	56	T	N	370.56 28.3.20	"SignalExtension is 0 usec when TXVECTOR parameter NO_SIG_EXTN is true". This may be correct at transmitter side, but the receiver does not know the value of TXVECTOR. How will the receiver decide the value of SignalExtension?	Clarify	2017/1/9 9:42
9052	Sigurd Schelstraete	225	1 28.4.1	371	20	T	N	371.20 28.4.1	Wrong reference "Table 25-1"	Correct reference	2017/1/9 9:42
9053	Sigurd Schelstraete	225	1 28.4.2	372	17	E	N	372.17 28.4.2	Formula 28-131 is slightly cut off on the left and the right	Correct	2017/1/9 9:42
9054	Song-Haur An	225	1 9.2.4.6.4.2	23	64	E	Y	23.64 9.2.4.6.4.2	First time abbreviation should be included in the Abbreviation Section.	Need to add RU to the Abbreviations List (Sec 3.4)	2017/1/9 9:42
9055	Song-Haur An	225	1 28.3.4	242	27	E	Y	242.27 28.3.4	HE-SIG-A-R is not defined.	Need to define and explain how to use it	2017/1/9 9:42

9056	Song-Haur An	225	1			G	N		It's not clear in the Nov presnetations that the 4 times of performance improvement has been verified by simulations. There have been a lot of quesuions.	Need to define a represnetative use case and evaluate the performance improvement with respect to 11n and ac.	2017/1/9 9:42
9057	Sriram Venkateswaran	225	1 28.3.6.2	249	57	E	Y	249.57 28.3.6.2	Section 21.3.7.5 should be section 22.3.7.5	Change section number	2017/1/9 9:42
9058	Sriram Venkateswaran	225	1 28.3.6.6	251	40	E	Y	251.40 28.3.6.6	Section 17.3.5.7 should be section 18.3.5.7	Change section number	2017/1/9 9:42
9059	Sriram Venkateswaran	225	1 28.3.6.8	253	23	E	Y	253.23 28.3.6.8	Section 21.3.10 should be section 28.3.10	Change section number	2017/1/9 9:42
9060	Sriram Venkateswaran	225	1 28.3.8	256	38	E	Y	256.38 28.3.8	Change Table number 19-6 to 20-6 and Table number 21-5 to 22-5	Change table numbers	2017/1/9 9:42
9061	Sriram Venkateswaran	225	1 28.3.9	264	2	E	Y	264.02 28.3.9	Change 'SR' to subscript in NSR	Change NSR to N_{SR}	2017/1/9 9:42
9062	Sriram Venkateswaran	225	1 28.3.9	265	17	E	Y	265.17 28.3.9	Change 'subcarriers modulated with data' to 'modulated subcarriers'	Make the change suggested	2017/1/9 9:42
9063	Sriram Venkateswaran	225	1 28.3.10.3	269	1	E	Y	269.01 28.3.10.3	Change Section 19-8 to 18-6	Change section number	2017/1/9 9:42
9064	Sriram Venkateswaran	225	1 28.3.10.3	269	11	T	Y	269.11 28.3.10.3	Change reference to Equation 28-8 to 28-9	Change equation number reference	2017/1/9 9:42
9065	Sriram Venkateswaran	225	1 28.3.10.10	311	17	T	Y	311.17 28.3.10.10	For greater clarity, HELTF should include r, u, and m as its subscripts	This change will affect the draft in multiple places, but is suggested to improve clarity. Add subscripts m,r,u to HE-LTF	2017/1/9 9:42
9066	Sriram Venkateswaran	225	1 28.3.10.10	313	1	E	Y	313.01 28.3.10.10	Change equation references as follows: equation 19-27 replaced by 20-27, equation 21-45 replaced by 22-45	Change equation number reference	2017/1/9 9:42
9067	Sriram Venkateswaran	225	1 28.3.10.10	313	16	T	Y	313.16 28.3.10.10	Beta_r can be used to simplify equation 28-58 and also make it consistent	Use beta_r in equation 28-58 to simplify it and make it consistent	2017/1/9 9:42
9068	Sriram Venkateswaran	225	1 28.3.11.5.4	320	40	E	Y	320.40 28.3.11.5.4	Missing N in N_{av,bits,u}	Change to N_{av,bits,u}	2017/1/9 9:42
9069	Sriram Venkateswaran	225	1 28.3.11.5.4	321	31	T	Y	321.31 28.3.11.5.4	a_init used wrongly instead of a	Change a_init to a	2017/1/9 9:42
9070	Sriram Venkateswaran	225	1 28.3.11.5.4	321		E	Y	321.00 28.3.11.5.4	The words "represented by ainit, in the last OFDM symbol(s)" can be dropped	Drop the suggested words	2017/1/9 9:42
9071	Sriram Venkateswaran	225	1 28.3.11.9	327	15	T	Y	327.15 28.3.11.9	Missing words between "a" and "and" in the following text: exploit frequency diversity for a and and is in the range of for a 2¦ Ö*996-tone RU	Paragraph needs to be rephrased/missing words inserted	2017/1/9 9:42
9072	Sriram Venkateswaran	225	1 28.3.11.9	327	18	E	Y	327.18 28.3.11.9	Move the line "The NSD here refers to the NSD with DCM = 1, which is half the value of NSD with DCM = 0." to the beginning of the paragraph. Otherwise, while reading this paragraph, the reader might have a mistaken notion of NSD	Move the line "The NSD here refers to the NSD with DCM = 1, which is half the value of NSD with DCM = 0." to the beginning of the paragraph.	2017/1/9 9:42
9073	Sriram Venkateswaran	225	1 28.3.11.12	330		T	Y	330.00 28.3.11.12	There should be no "i" in the subscript of lines 17, 26 (left side of equations) and lines 12, 32	Remove "i" from the subscript in the lines mentioned	2017/1/9 9:42
9074	Sriram Venkateswaran	225	1 28.3.11.12	330	28	T	Y	330.28 28.3.11.12	"i" in the right side of the equation 28-100 (second case) should actually be 1 (numeral one)	Change "i" to 1 (one) on the right side of equation 28-100 (second case)	2017/1/9 9:42
9075	Sriram Venkateswaran	225	1 28.3.11.14	336	30	T	Y	336.30 28.3.11.14	<= NSD,r should actually be < NSD,r	Change <= to <	2017/1/9 9:42
9076	Sriram Venkateswaran	225	1 28.3.14.1	340	55	E	Y	340.55 28.3.14.1	Word "in" is missing	Change "participating STAs HE trigger-based" to "participating STAs in HE trigger-based"	2017/1/9 9:42
9077	Sriram Venkateswaran	225	1 28.3.14.3	342	9	E	Y	342.09 28.3.14.3	Word "being" is missing	Change "with P the maximum power" to "with P being the maximum power"	2017/1/9 9:42
9078	Sriram Venkateswaran	225	1 28.3.14	341		T	Y	341.00 28.3.14	Each STA that is scheduled in the Trigger frame calculates UL transmit power, , of the HE trigger-based PPDU for the assigned MCS using Equation (28-118).	For Equation (28-118), better to explicitly specify the bandwidth over which UL transmit power is averaged. AP power is averaged over 20MHz but for UL Tx its not specified.	2017/1/9 9:42
9079	Sriram Venkateswaran	225	1 28.3.18.4.4			T	Y	28.3.18.4.4	The potential LO leakage tones for 20 MHz operating devices are the center of primary 20 MHz of the HE PPDU tone plan and +/-3 tones. The potential LO leakage tones for 40MHz operating devices are the center of the primary 40 MHz of the PPDU tone plan and +/-3 tones. For 80 MHz capable devices that transmits 20 MHz or 40 MHz PPDU, the potential LO leakage tone exist outside the PPDU bandwidth and should not affect the transmitter modulation accuracy test.	Explicitly specify the LO leakage tones for 20 in 40 and 80 in 80	2017/1/9 9:42

9080	Sriram Venkateswaran	225	1 28.3.18.4.4	357		E	Y	357.00	28.3.18.4.4	Equation 28-122, i_s (I subscript s is not defined)	Define the variable i_s (I subscript s)	2017/1/9 9:42
9081	Sriram Venkateswaran	225	1 28.3.6.1			E	Y		28.3.6.1	tone rotation for the 20MHz subband is reffered to 21.3.7.5. which should be 22.3.7.5	Fix references	2017/1/9 9:42
9082	Sriram Venkateswaran	225	1 28.3.9	263	51	T	Y	263.51	28.3.9	The statement "The total power of the time domain HE modulated field signals summed over all transmit chains should not exceed the total power of the time domain pre-HE modulated field signals summed over all transmit chains." may not be true for extended range PPDUs with boosted LTFs etc.	If this line does not hold for all cases, please give proper qualifications (or delete it if the spec specifies these powers clearly in other places and the line is redundant)	2017/1/9 9:42
9083	Sriram Venkateswaran	225	1 9.4.2.218.3	83		T	Y	83.00	9.4.2.218.3	Table 9-262 aa has the following line "B15: Indicates support of reception of 1xLTF and 1.6uS guard interval duration for HE Trigger-based PPDUs" - change reception to transmission	Change reception to transmission	2017/1/9 9:42
9084	Sriram Venkateswaran	225	1 28.3.5	247	7	E	Y	247.07	28.3.5	It is preferred to add a new transmitter block diagram for the Data field of an HE downlink MU OFDMA transmission (possibly with a mixture of OFDMA RU and MU-MIMO RU, LDPC/BCC)	add a new transmitter block diagram for DL-MU OFDMA	2017/1/9 9:42
9085	Sriram Venkateswaran	225	1 9.4.2.218.5	90	16	E	Y	90.16	9.4.2.218.5	"Table 9-262ad: PPET8 and PPET16 encoding": When DCM is enabled, packet extension requirement for a given Nss/QAM/RU size is not very clear. E.g: When DCM is enabled on RU484, will it use PE requirement based on RU242 or RU996?	Clarity needed. Good to add examples.	2017/1/9 9:42
9086	Sriram Venkateswaran	225	1 27.6.4	179	19	T	Y	179.19	27.6.4	NUM_STS indicates two or more space-time streams Does this mean NSTS 1 with CQI mode is not possible?	Clarification required, change wording if NSTS 1 with CQI mode is possible	2017/1/9 9:42
9087	Sriram Venkateswaran	225	1 28.5			E	Y		28.5	RU 989 in MCS tables	Change to 996	2017/1/9 9:42
9088	Sriram Venkateswaran	225	1 27.14.11	199		E	Y	199.00	27.14.11	Is UL_FLAG referred in section 27.14.1 is same as UPLINK_FLAG in section 27.11? If yes, please change it in section 27.14 to be consistent	Change to UPLINK_FLAG	2017/1/9 9:42
9089	Sriram Venkateswaran	225	1 28.3.20	369		T	Y	369.00	28.3.20	"The PHY entity shall maintain PHY-CCA.indication(BUSY, channellist) primitive for the predicted duration of the transmitted PPDU, as defined by RXTIME in Equation (28-128), for all supported modes, unsupported modes, Reserved HE-SIG-A Indication, and invalid HE-SIG-A CRC". For SIGA CRC failure case, SIGA contents will not be usable and in such case, how receiver will compute RXTIME which requires CP and LTF size which are not multiple of 4uS?	Clarification required. For SIGA CRC failure case, shall we use length from LSIG? If so, the spec should state it explicitly	2017/1/9 9:42
9090	Sriram Venkateswaran	225	1 28.3.14	341		T	Y	341.00	28.3.14	Each STA that is scheduled in the Trigger frame calculates UL transmit power, , of the HE trigger-based PPDU for the assigned MCS using Equation (28-118).	For Equation (28-118), need to specify the bandwidth over which UL transmit power is averaged. AP power is averaged over 20MHz but for UL Tx its not specified.	2017/1/9 9:42
9091	Sriram Venkateswaran	225	1 28.3.20	368		E	Y	368.00	28.3.20	m factor computation check is swapped between the two branches (eg Len_mod_3=1 is MU/RE but is shows as Len_mod_3=2 is MU/RE.	Change the diagram to correctly reflect m factor computation check	2017/1/9 9:42
9092	Sriram Venkateswaran	225	1 28.3.10	301		E	Y	301.00	28.3.10	Circular reference in the following line: "In an HE SU PPDU, HE extended range SU PPDU and HE MU PPDU with a single RU (the RU having an MU-MIMO allocation or an SU allocation), the number of HE-LTF symbols, NHE-LTF, is a function of the total number of space-time streams NSTS as shown in Table 28-12 (Frequently used parameters)". Table 28.12 doesn't show the mapping and and refers back to section 28.3.10.	Fix circular reference by showing the mapping in one of the places	2017/1/9 9:42

9093 stephane baron	225	1 9.2.4.6.3	22	26	E	Y	22.26 9.2.4.6.3	consider renumbering the bits number from B2-B29 to B1-B28	as in comment	2017/1/9 9:42
9094 stephane baron	225	1 9.2.4.6.4.4	22	16	T	N	22.16 9.2.4.6.4.4	We do not need 9 reserved bit in the Link adaptation control information subfield	put only 5 reserved bits from B7 to B11 to align the lenght of the HE link adaptation control field on 16 bits (12+4 control ID).	2017/1/9 9:42
9095 stephane baron	225	1 9.3.1.23	43	2	E	Y	43.02 9.3.1.23	HE stations are now handling two NAVs	replace NAV by NAVs in line 2 and 5	2017/1/9 9:42
9096 stephane baron	225	1 27.5.2.3	170	2	T	Y	170.02 27.5.2.3	required type of a basic trigger frame is not defined. Use the "Preferred AC" instead of the "required type"	Modify the text as follow :" If the Trigger Type field of the soliciting Trigger frame is Basic Trigger and the AC Preference Level subfield of the trigger dependant info field is set to 1, then if the STA does not have a frame corresponding to the AC value indicated in the Preferred AC subfield, the STA shall either not transmit a response or transmit one or more QoS Null frames.	2017/1/9 9:42
9097 stephane baron	225	1 27.5.2.23	170	5	T	Y	170.05 27.5.2.23	When the AC preference Level is set to 0 in a Basic trigger, A-MPDU content of the trigger based PPDU is not defined (if the STA doesn't support A-MPDU with multiple TIDs).When the AC preference Level is set to 0, the STA is responsible of the AC selection, and shall respect the EDCA rules to ensure QoS to its applications.	Add the following sentence between lines 4 and 5 : "If the Trigger Type field of the soliciting Trigger frame is Basic Trigger and the AC Preference Level subfield of the trigger dependant info field is set to 0, the STA shall follow the EDCA rules to determine the content of each A-MPDU by selecting frames from the non empty AC queue with the lowest corresponding backoff counter value.	2017/1/9 9:42
9098 stephane baron	225	1 9.7.3	108	11	T	Y	108.11 9.7.3	The Case of the "TXOP responder" is missing in note 2	replace "TXOP holder" with "TXOP holder, TXOP responder"	2017/1/9 9:42
9099 stephane baron	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	doublon : suppress one of the double "."	as in comment	2017/1/9 9:42
9100 stephane baron	225	1 27.5.2.23	167	59	T	Y	167.59 27.5.2.23	Non associated STA behavior in MU UL is not defined	Use same mechanism as described in Multi user uplink random access for non associated STA	2017/1/9 9:42
9101 stephane baron	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	The NDP feedback mechanism is not defined	create a new type of trigger frame to indicate to the STA the time/frequency/space dimensions.	2017/1/9 9:42
9102 stephane baron	225	1 9.3.1.23	42	52	T	Y	42.52 9.3.1.23	Create a new type of trigger frame for the NDP	Allocate one of the reserved value of the Trigger Type field to the NDP feedback mechanism	2017/1/9 9:42
9103 stephane baron	225	1 27.5.2.6.2	173	40	E	Y	173.40 27.5.2.6.2	In the exemple of random access the text describing the figure 27-1 should the rules defined line 30. decrementing the nonzero OBO counters by 1 in every RU assigned to AID value 0 is less clear than decrementing by a value equal to the number of Rus assigned to AID 0	replace the sentence by "For instance, as shown in Figure 27-1 (Illustration of the UL OFDMA-based random access procedure), the number of RUs assigned to AID value 0 beeing equal to 2, STA 1 decrements it OBO counter from 3 to 1, and STA 2 decrements its OBO counter smaller than 2 to 0.	2017/1/9 9:42
9104 stephane baron	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	dot and space missing	replace "AID value 0If the selected" by "AID value 0. If the selected"	2017/1/9 9:42
9105 stephane baron	225	1 27.5.2.6.2	173	48	T	Y	173.48 27.5.2.6.2	The random access procedure suffer from a low efficiency (<38%), so the draft shall not additional collision cases. The procedure described line 49 to 52 will create extra collisions, on the subsequent trigger frame reception, since the STA that failed to transmit in previous trigger frame due to a busy channel (already having their OBO to 0) will fight against new stations decrementing their OBO to 0. So the congestion window cannot fully play its role	replace the sentence by : "If the selected RU is considered busy as a result of either physical or virtual carrier sensing, then the HE STA shall not transmit its HE trigger-based PPDU in the randomly selected RU and roll backs its OBO value to its original value."	2017/1/9 9:42
9106 Stephen McCann	225	1 9.3.1.20	40	31	T	Y	40.31 9.3.1.20	Within Figure 9-51b, the initial sub-field is shown as "AID11". This is not defined within the document.	Either remove this sub-field from the figure, or replace it with "AID"	2017/1/9 9:42
9107 Stephen McCann	225	1 27.16.3.2	207	62	T	Y	207.62 27.16.3.2	The following sentence "NOTE--The GAS protocol can be used by an HE STA to inform an AP the type of STA-to-STA operations" does not read correctly and the grammar requires some correction.	Change the cited setence to "NOTE--The HE STA can use the GAS protocol to transport an element that informs an AP about the type(s) of STA-to-STA operations that the HE STA supports."	2017/1/9 9:42

9108 Stephen McCann	225	1 9.4.2.218.2	80	13	E	N	80.13 9.4.2.218.2	The referenced clause 11.47 does not exist.	Change the reference to clause "11.47" to "27.16.3". A similar change is also required at P95L50.		2017/1/9 9:42
9109 Stephen McCann	225	1 9.4.2.223	95	50	E	N	95.50 9.4.2.223	The following sentence "The Quiet Time Period Setup element defines a period for an STA-to-STA operation" does not read correctly.	Change the cited sentence to "The Quiet Time Period Setup element defines a period for an STA-to-STA operation to occur"		2017/1/9 9:42
9110 Stephen McCann	225	1 9.4.2.223	95	54	E	N	95.54 9.4.2.223	Typo "STA-2-STA"	Change the cited words to "STA-to-STA"		2017/1/9 9:42
9111 Stephen McCann	225	1 9.4.2.218.2	80	10	E	N	80.10 9.4.2.218.2	The term QTP is introduced by the draft at this point.	Create an acronym for QTP in clause 3.4		2017/1/9 9:42
9112 Stephen McCann	225	1 9.4.2.224	96	37	T	Y	96.37 9.4.2.224	The term "Vendor Specific Service Identifier" is used in Figure 9-589cz, "Vendor Specific Service ID" on P96L22 and also "Vendor Specific Service Type" on P207L48, which appear to be the same parameter.	Clarify and use a consistent term at the cited places. "Vendor Specific Service ID" may be the suitable one to use. In addition, an example of such a Service ID may be useful to avoid confusion with many specific service related terms introduced by the IEEE 802.11aq draft.		2017/1/9 9:42
9113 Sudhir Srinivasa	225	1 28.1.1	210	58	T	Y	210.58 28.1.1	The (4xHELTF+0.8us GI) mode seems to be missing	Include this mode under "may support"		2017/1/9 9:42
9114 Sudhir Srinivasa	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3	Not clear which field(s) (or OFDM symbols) the constellation support and Nss support apply to.	Clarify exactly which of the constellation or spatial stream support constraints apply to DCM DATA and SIGB DCM.		2017/1/9 9:42
9115 Suhwook Kim	225	1 9.4.2.218.2	77	40	E	N	77.40 9.4.2.218.2	There is no definition or abbreviation of "S-MPDU"	Add abbreviation of S-MPDU as "single MPDU"		2017/1/9 9:42
9116 Suhwook Kim	225	1 27.3.4.4	156	62	E	N	156.62 27.3.4.4	There is no definition of FN in equation	Define FN as "Fragment Number in Fragment Number subfield"		2017/1/9 9:42
9117 Suhwook Kim	225	1 27.3.4.4	156	62	E	N	156.62 27.3.4.4	In "where the operations on the sequence numbers are performed module 4096", "module" should be "modulo"	Change to "where the operations on the sequence numbers are performed modulo 4096"		2017/1/9 9:42
9118 Suhwook Kim	225	1 27.3.3.4	154	42	T	Y	154.42 27.3.3.4	In "The receiver STA that accepts the HT-Immediate block ack session shall respond with an L3 Frag BA Response if it has allocated resources for operating in a block ack session with level 3 fragmentation enabled", what does "allocated resources" mean? In general, allocated resource means frequency resource unit by trigger frame in this specification. However, "allocated resources" in that sentence doesn't look like frequency resource. It may be about hardware stuff.	Change to "The receiver STA that accepts the HT-Immediate block ack session shall respond with an L3 Frag BA Response if it can support operating in a block ack session with level 3 fragmentation enabled"		2017/1/9 9:42
9119 Suhwook Kim	225	1 28.3.10.8.5	295	18	T	Y	295.18 28.3.10.8.5	In this spec, STAID 0 is only for broadcast frame. If an AP want to send a data or management frame to an unassociated STA, STA-ID field in HE-SIG-B would be 0 because the receiver STA doesn't have an AID yet. In this case, all stations near the AP will decode this frame unnesscery becase its STA-ID field is 0. It is desirable to avoid.	Define broadcast STAID value for unassociated STA only		2017/1/9 9:42
9120 Suhwook Kim	225	1 27.5.1.2	163	9	T	Y	163.09 27.5.1.2	In this spec, STAID 0 is only for broadcast frame. If an AP want to send a data or management frame to an unassociated STA, STA-ID field in HE-SIG-B would be 0 because the receiver STA doesn't have an AID yet. In this case, all stations near the AP will decode this frame unnesscery becase its STA-ID field is 0. It is desirable to avoid.	Define broadcast STAID value for unassociated STA only		2017/1/9 9:42
9121 Suhwook Kim	225	1 27.5.2.2.1	164	46	T	Y	164.46 27.5.2.2.1	If AP sets AID12 field to 0, associated STAs and non-associated STAs can transmit on the same resource unsing random access. However, it will be undesirable because their transmissions have different priority, frame type, and purpose. AP has to manage UL OFDMA random access to achieve high effiency. So AP should be able to allocate resource to association STAs only or unassociation STAs only.	Define broadcast AID12 value for unassociated STA only		2017/1/9 9:42

9122	Suhwook Kim	225	1 27.5.2.6.1	172	34	T	Y	172.34 27.5.2.6.1	If AP sets AID12 field to 0, associated STAs and non-associated STAs can transmit on the same resource unsing random access. However, it will be undesirable because their transmissions have different priority, frame type, ack policy, frame length, and purpose. AP has to manage UL OFDMA random access to achieve high effiency. So AP should be able to allocate resource to association STAs only or unassociation STAs only.	Define broadcast AID12 value for unasssociated STA only		2017/1/9 9:42
9123	Suhwook Kim	225	1 9.3.1.23	45	35	T	Y	45.35 9.3.1.23	If AP sets AID12 field to 0, associated STAs and non-associated STAs can transmit on the same resource unsing random access. However, it will be undesirable because their transmissions have different priority, frame type, ack policy, frame length, and purpose. AP has to manage UL OFDMA random access to achieve high effiency. So AP should be able to allocate resource to association STAs only or unassociation STAs only.	Define broadcast AID12 value for unasssociated STA only		2017/1/9 9:42
9124	SUNGEUN LEE	225	1 9.2.4.6.4.6	27	19	E	Y	27.19 9.2.4.6.4.6	Wrong section reference	Fix the wrong section reference 26.3.13.2 (Power pre. correction) to the correct one		2017/1/9 9:42
9125	SUNGEUN LEE	225	1 9.2.4.6.4.7	27	65	E	Y	27.65 9.2.4.6.4.7	Wrong section reference and missed parenthesis (see 25.5.1.3 (Bandwidth query report operation)	Change the wrong reference section to the correct one, and put one more right parenthesis at the end of the sentence, e.g., (see 27.5.1.3 (HE bandwidth query report operation for DL MU))		2017/1/9 9:42
9126	SUNGEUN LEE	225	1 9.4.2.200	73	14	E	Y	73.14 9.4.2.200	Wrong section reference 25.14 (Link adaptation using the HE variant HT Control field) in the Table 9-262k1-TWT Flow Identifier field for a broadcast TWT element	Change the wrong reference to the correct one		2017/1/9 9:42
9127	SUNGEUN LEE	225	1 9.4.2.200	73	40	E	Y	73.40 9.4.2.200	Wrong section reference 25.14 (Link adaptation using the HE variant HT Control field) in the Table 9-262k1-TWT Flow Identifier field for a broadcast TWT element	Change the wrong reference to the correct one		2017/1/9 9:42
9128	SUNGEUN LEE	225	1 9.4.2.218.2	78	41	E	Y	78.41 9.4.2.218.2	Wrong section reference 25.4.2 in 'All ACK Support' row of Table 9-262z-Subfields of the HE MAC Capabilities Information field	Change the wrong reference to the correct one		2017/1/9 9:42
9129	SUNGEUN LEE	225	1 10.28.4	137	11	E	Y	137.11 10.28.4	Wrong section reference 25.10.4 (A-MPDU with multiple TID)	Change the wrong reference to the correct one		2017/1/9 9:42
9130	SUNGEUN LEE	225	1 27.5.2.2.3	167	26	E	Y	167.26 27.5.2.2.3	Wrong section reference 9.22.2.7 (Multiple frame transmission in an EDCA TXOP)	Change the wrong reference to the correct one, 10.22.2.7 (Multiple frame transmission in an EDCA TXOP) given P802.11ax D1.0		2017/1/9 9:42
9131	SUNGEUN LEE	225	1 27.5.2.2.3	167	30	E	Y	167.30 27.5.2.2.3	Wrong section reference 9.22.2.2 (EDCA backoff procedure)	Change the wrong reference to the correct one, 10.22.2.2 (EDCA backoff procedure) given P802.11ax D1.0		2017/1/9 9:42
9132	SUNGEUN LEE	225	1 27.6.4	179	14	E	Y	179.14 27.6.4	Wrong section reference	Fix the wrong section reference 26.1.4 (PPᵃ·ᵈ formats) to the correct one		2017/1/9 9:42
9133	SUNGEUN LEE	225	1 2.15.4.1	203	10	E	Y	203.10 2.15.4.1	Wrong section reference	Fix the wrong section reference 26.5 (Parameters for HE-MCSs) to the correct one		2017/1/9 9:42
9134	SUNGEUN LEE	225	1 28.1.1	209	59	T	Y	209.59 28.1.1	MCS 1 supports QPSK with DCM	Include QPSK DCM for the supported modulation.		2017/1/9 9:42
9135	SUNGEUN LEE	225	1 28.1.1	210	39	E	Y	210.39 28.1.1	Precise description for 1x HE-LTF is 1x LTF not 1x	Change the word '1x' to 'an 1x LTF'.		2017/1/9 9:42
9136	SUNGEUN LEE	225	1 28.1.1	210	60	T	Y	210.60 28.1.1	0.8us + 4x LTF is optional mode to support mainly for beamforming feedback on SU and MU PPDUs	Add the statement to describe 0.8us + 4x LTF optional mode, i.e., "0.8 us GI duration on both HE-LTF and data symbols when the HE-LTF is a 4x-LTF (transmit and receiver) for HE SU PPDUs, HE MU PPDUs"		2017/1/9 9:42
9137	SUNGEUN LEE	225	1 28.2.2	217	5	E	Y	217.05 28.2.2	CHAN_MAT parameter in Table 28-1 includes wrong reference as 26.3.12.3.2 (Beamforming feedback)	Change the wrong reference to the correct one		2017/1/9 9:42
9138	SUNGEUN LEE	225	1 28.2.2	219	51	T	Y	219.51 28.2.2	SU RU in HE MU PPDU is not an accurate term to describe for DCM			2017/1/9 9:42
9139	SUNGEUN LEE	225	1 28.2.2	221	18	T	Y	221.18 28.2.2	The terminology 'preamble supporting channel bonding' is not precise	Replace 'preamble supporting channel bonding' to 'preamble puncturing'		2017/1/9 9:42

9140 SUNGEUN LEE	225	1 28.2.2	222	11	T	Y	222.11 28.2.2	HD NDP PPDU only uses HE SU PPDU format without the Data field, therefore, it is not precise to describe HE NDP PPDU in HE_SU,HE_MU,HE_EXT_SU or HE_TRIG format row.	Separate the row into two rows, one is 'FORMAT is HE_SU', the other is 'FORMAT is HE_MU,HE_EXT_SU or HE_TRIG', and includes HE_NDP_PPDU description only in 'FORMAT is HE_SU' row.	2017/1/9 9:42
9141 SUNGEUN LEE	225	1 28.2.2	222	22	T	Y	222.22 28.2.2	HD NDP PPDU only uses HE SU PPDU format with 0 octet in the PSDU_LENGTH. Therefore, it is not precise to describe HE NDP PPDU in HE_SU,HE_MU,HE_EXT_SU or HE_TRIG format row.	First, separate the row into two rows, one is 'FORMAT is HE_SU', the other is 'FORMAT is HE_MU,HE_EXT_SU or HE_TRIG'. In 'FORMAT is HE_SU' row. Include the description of HE NDP PPDU. In 'FORMAT is HE_MU,HE_EXT_SU or HE_TRIG', change the minimum octet size from 0 to 1 describing the number of octets in the HE PSDU.	2017/1/9 9:42
9142 SUNGEUN LEE	225	1 28.2.2	223	28	E	Y	223.28 28.2.2	Improve the description on note for B1-B6. Integer can be in decimal, in octal, or in binary format, so 'B1-B6 is integer' description is not sufficient.	Update the note to express decimal value, e.g., Note. B1-B6 indicates a decimal integer of a binary number from B1 to B6, where B1 is MSB.	2017/1/9 9:42
9143 SUNGEUN LEE	225	1 28.2.2	223	20	T	Y	223.20 28.2.2	all 1s in TXOP denotes the no duration information, but it does not mean it is an invalid value.	Describe all 1 case (127) with better wording	2017/1/9 9:42
9144 SUNGEUN LEE	225	1 28.2.2	226	15	T	Y	226.15 28.2.2	HE-LTF1 is not clearly defined in the specification, so detailed description for the first symbol of HE-LTF is required to be added	Change HE-LTF1 into the first symbol of HE-LTF	2017/1/9 9:42
9145 SUNGEUN LEE	225	1 28.2.2	226	17	T	Y	226.17 28.2.2	HE-LTF1 is not clearly defined in the specification, so detailed description for the first symbol of HE-LTF is required to be added	Change HE-LTF1 into the first symbol of HE-LTF	2017/1/9 9:42
9146 SUNGEUN LEE	225	1 28.3.3.2	229	32	E	Y	229.32 28.3.3.2	Remove additional period at the end of the statement	Remove additional period at the end of the statement	2017/1/9 9:42
9147 SUNGEUN LEE	225	1 28.3.3.2	230	1	E	Y	230.01 28.3.3.2	Add - in 484-tone for the consistency	Add - in 484-tone for the consistency	2017/1/9 9:42
9148 SUNGEUN LEE	225	1 28.3.3.2	232	34	T	Y	232.34 28.3.3.2	242-tone in a 20MHz HE PPDU can be used for MU, therefore SU text for 242-tone in Figure 28-2 is not appropriate	Remove SU text in Figure 28-2	2017/1/9 9:42
9149 SUNGEUN LEE	225	1 28.3.3.2	233	27	T	Y	233.27 28.3.3.2	484-tone in a 40MHz HE PPDU can be used for MU, therefore SU text for 484-tone in Figure 28-3 is not appropriate	Remove SU text in Figure 28-3	2017/1/9 9:42
9150 SUNGEUN LEE	225	1 28.3.3.2	234	30	T	Y	234.30 28.3.3.2	996-tone in a 80MHz HE PPDU can be used for MU, therefore SU text for 996-tone in Figure 28-4 is not appropriate	Remove SU text in Figure 28-4	2017/1/9 9:42
9151 SUNGEUN LEE	225	1 28.3.3.5	237	35	E	Y	237.35 28.3.3.5	It is better not to use arabic numerals to describe the number of RUs since 26/52/106-tone RUs also starts with arabic numerals so that text can bring some confusion	(2 26-tone RUs) -> (two 26-tone RUs) (7 26-tone RUs) -> (seven 26-tone RUs) (14 26-tone RUs) -> (fourteen 26-tone RUs) (2 of 52-tone RUs) -> (two 52-tone RUs) (4 of 52-tone RUs) -> (four 52-tone RUs) (2 of 106-tone RUs) -> (two 106-tone RUs) (4 of 106-tone RUs) -> (four 106-tone RUs)	2017/1/9 9:42
9152 SUNGEUN LEE	225	1 28.3.3.6	238	1	E	Y	238.01 28.3.3.6	20 MHz only and 20 MHz-only are mixed over the spec, and it is required to have the consistent expression for a non-AP STA which operates 20 MHz channel only.	Unify 20 MHz only and 20 MHz-only descriptions to represent a non-AP HE STA which operates 20 MHz channel width only.	2017/1/9 9:42
9153 SUNGEUN LEE	225	1 28.3.3.6	238	5	T	Y	238.05 28.3.3.6	It is not clear on the possibility of the operation in secondary channels from 'primary 20 MHz channel as a mandatory mode' description.	Clarify the operation capability on secondary 20MHz channels of 20 MHz-only STA, e.g., only primary 20MHz support or else, and if it is required to operate, define the procedure and signaling.	2017/1/9 9:42
9154 SUNGEUN LEE	225	1 28.3.3.6	238	1	T	Y	238.01 28.3.3.6	20 MHz-only STA is only for non-AP HE STA, so for the clarification, 20 MHz-only non-AP HE STA would be more appropriate	Change the title as 20 MHz-only non-AP HE STAs	2017/1/9 9:42
9155 SUNGEUN LEE	225	1 28.3.5	242	51	E	Y	242.51 28.3.5	Verb 'Relicate' is not appropriate as an item of block explanation	Change item k description into a noun form	2017/1/9 9:42
9156 SUNGEUN LEE	225	1 28.3.5	242	52	E	Y	242.52 28.3.5	Verb 'Multiply' is not appropriate as an item of block explanation	Change item l description into a noun form	2017/1/9 9:42

9157	SUNGEUN LEE	225	1 28.3.6.4	250	47	E	Y	250.47 28.3.6.4	Fix the wrong section reference number	Change 228.3.9 to 28.3.9	2017/1/9 9:42
9158	SUNGEUN LEE	225	1 28.3.6.6	251	32	T	Y	251.32 28.3.6.6	HE-SIG-A1/A2 is used to represent either data bits in field or symbol itself in a mixed way. HE-SIG-A1 and HE-SIG-A2 are described as two parts of HE-SIG-A field over the specification and in HE-SIG-A field tables, and two OFDM symbols are created based on data bits of HE-SIG-A1 and HE-SIG-A2. Therefore, clarification is required.	Unify the definition of HE-SIG-A1/A2/A3/A4 over the specification, e.g.,replace 'consists of two symbols' to 'consists of two parts', and change 'and is constructed' to ', and the HE-SIG-A symbols are constructed'	2017/1/9 9:42
9159	SUNGEUN LEE	225	1 28.3.6.6	251	47	T	Y	251.47 28.3.6.6	Require to keep consistency for the definition of HE-SIG-A1 and HE-SIG-A2 whether those are fields or symbols.	Unify the definition of HE-SIG-A1/A2 over the specification, e.g., change 'Duplicate HE-SIG-A1 and HE-SIG-A2' to 'Duplicate the symbols constructed from HE-SIG-A1 and HE-SIG-A2'	2017/1/9 9:42
9160	SUNGEUN LEE	225	1 28.3.6.6	251	62	T	Y	251.62 28.3.6.6	Make it consistent for the definition and usage of HE-SIG-A1/A2/A3/A4, which would represents either data bit field or symbol.	Unify the definition of HE-SIG-A1/A2/A3/A4 over the specification, e.g., replace 'consists of four symbols' to 'consists of four parts', and change 'field is constructed' to 'symbols are constructed'	2017/1/9 9:42
9161	SUNGEUN LEE	225	1 28.3.6.9	253	35	E	Y	253.35 28.3.6.9	pilot subcarrier is more appropriate term rather than pilot tone for the consisistency of the document	change the text 'pilot tones' to 'pilot subcarriers'	2017/1/9 9:42
9162	SUNGEUN LEE	225	1 28.3.6.8	253	5	T	Y	253.05 28.3.6.8	For trigger-based PPDU or MU PPDU, HE-STF is transmissed only for (an) assigned RU(s), therefore HE-STF generation over the whole bandwidth indicated by CH_BANDWIDTH can be misleading.	massage the sentence or add the description to clarify HE-STF is transmitted only for the assigned RU(s) for certain scenarios	2017/1/9 9:42
9163	SUNGEUN LEE	225	1 28.3.6.9	253	29	T	Y	253.29 28.3.6.9	For trigger-based PPDU or MU PPDU, HE-LTF is transmissed only for (an) assigned RU(s), therefore HE-LTF generation over the whole bandwidth indicated by CH_BANDWIDTH can be misleading	massage the sentence or add the description to clarify HE-LTF is transmitted only for the assigned RU(s) for certain scenarios	2017/1/9 9:42
9164	SUNGEUN LEE	225	1 28.3.9	261	30	E	Y	261.30 28.3.9	Wrong section reference see 22.3.7 (Mathematical description of signals) based on 802.11-2016	Change the wrong reference to the correct one, i.e., 21.3.7 (Mathematical description of signals) based on 802.11-2016	2017/1/9 9:42
9165	SUNGEUN LEE	225	1 28.3.9	263	63	E	Y	263.63 28.3.9	Wrong section reference 18.3.2.5 (Mathematical conventions in the signal descriptions)	Change to the wrong section number to the correct one, i.e., 17.3.2.5 (Mathematical conventions in the signal descriptions) based on 802.11-2016	2017/1/9 9:42
9166	SUNGEUN LEE	225	1 28.3.6.6	265	32	T	Y	265.32 28.3.6.6	HE-SIG-A1 is an information parts of HE-SIG-A field, and the symbol is composed of the information in HE-SIG-A1, therefore 'symbol' is not accurate to describe HE-SIG-A1. Moreover, the terminology 'part' is already used in Encoding and modulation subclause.	For consistency with other clause and clarification, change the text 'two symbols' to 'two parts'	2017/1/9 9:42
9167	SUNGEUN LEE	225	1 28.3.6.6	265	62	T	Y	265.62 28.3.6.6	HE-SIG-A1 is an information parts of HE-SIG-A field, and the symbol is composed of the information in HE-SIG-A1, therefore 'symbol' is not accurate to describe HE-SIG-A1. Moreover, the terminology 'part' is already used in Encoding and modulation subclause.	For consistency with other clause and clarification, change the text 'four symbols' to 'four parts'	2017/1/9 9:42
9168	SUNGEUN LEE	225	1 28.3.9	265	47	E	Y	265.47 28.3.9	TGI2,L-LTF parameter does not exist. Fix the wrong parameter name TGI2,L-LTF in the row L-LTF	Change TGI2,L-LTF to TGI,L-LTF	2017/1/9 9:42
9169	SUNGEUN LEE	225	1 28.3.9	266	3	T	Y	266.03 28.3.9	TGI,HE-LTF1 parameter is never defined in the specification. In addition, GI duration is depending on LTF+CP combination, which is not one-to-one mapping from HE-LTF mode. Moreover, the parameter TGI,HE-LTF is already described in Table 28-9-Timing-related constants (P802.11ax D1.0). Therefore, TGI,HE-LTF1 would be replaced as TGI,HE-LTF	Replace TGI,HE-LTF1 to TGI,HE-LTF	2017/1/9 9:42

9170	SUNGEUN LEE	225	1 28.3.9	266	6	T	Y	266.06 28.3.9	TGI,HE-LTF2 parameter is never defined in the specification. In addition, GI duration is depending on LTF+CP combination, which is not one-to-one mapping from HE-LTF mode. Moreover, the parameter TGI,HE-LTF is already described in Table 28-9-Timing-related constants (P802.11ax D1.0). Therefore, TGI,HE-LTF2 would be replaced as TGI,HE-LTF	Replace TGI,HE-LTF2 to TGI,HE-LTF		2017/1/9 9:42
9171	SUNGEUN LEE	225	1 28.3.9	266	8	T	Y	266.08 28.3.9	TGI,HE-LTF4 parameter is never defined in the specification. In addition, GI duration is depending on LTF+CP combination, which is not one-to-one mapping from HE-LTF mode. Moreover, the parameter TGI,HE-LTF is already described in Table 28-9-Timing-related constants (P802.11ax D1.0). Therefore, TGI,HE-LTF4 would be replaced as TGI,HE-LTF	Replace TGI,HE-LTF4 to TGI,HE-LTF		2017/1/9 9:42
9172	SUNGEUN LEE	225	1 28.3.10.3	268	52	E	Y	268.52 28.3.10.3	Wrong section and subsection numbers 22.3.8.3.4 (L-SIG definition)	Change the wrong section and subsection numbers to the correct one, i.e., 21.3.8.2.4 (L-SIG definition) based on 802.11-2016		2017/1/9 9:42
9173	SUNGEUN LEE	225	1 28.3.10.4	268	14	T	Y	268.14 28.3.10.4	The GI parameter in Eq (28-10) based on P802.11ax D1.0 is wrong. It should be TGI,L-LTF	Change TGI,LegacyPreamble to TGI,L-LTF in L-LTF equation for BEAM_CHANGE is 0, i.e., Eq. (28-10) based on P802.11ax D1.0		2017/1/9 9:42
9174	SUNGEUN LEE	225	1 28.3.10.4	269	62	E	Y	269.62 28.3.10.4	Equation (18-8) is an incorrect reference number from REVmc.	Change to (17-8)		2017/1/9 9:42
9175	SUNGEUN LEE	225	1 28.3.10.3	269	27	E	Y	269.27 28.3.10.3	Wrong section reference 22.3.10.11.1 (Transmission in VHT format)	Change the wrong section number to the correct one, i.e., 21.3.10.11.1 (Transmission in VHT format) based on 802.11-2016		2017/1/9 9:42
9176	SUNGEUN LEE	225	1 28.3.10.5	272	5	T	Y	272.05 28.3.10.5	The summation range for iBW should be from 0 to N_20MHz-1	Change summation upper bound of iBW from N20MHz to N20Mhz-1 for L-SIG equation, ie.g., Eq (28-13)		2017/1/9 9:42
9177	SUNGEUN LEE	225	1 28.3.10.7.2	273	23	T	Y	273.23 28.3.10.7.2	HE-LTF1 is not clearly defined in the specification, so detailed description for the first symbol of HE-LTF is required to be added	Change HE-LTF1 into the first symbol of HE-LTF		2017/1/9 9:42
9178	SUNGEUN LEE	225	1 28.3.10.7.2	273	25	T	Y	273.25 28.3.10.7.2	HE-LTF1 is not clearly defined in the specification, so detailed description for the first symbol of HE-LTF is required to be added	Change HE-LTF1 into the first symbol of HE-LTF		2017/1/9 9:42
9179	SUNGEUN LEE	225	1 28.3.10.7.2	273	46	T	Y	273.46 28.3.10.7.2	It would be required to clarify what P20 is (primary 20MHz) and to be consistent further with Eq (28-18) and (28-19) in P802.11ax D1.0 for P20	Clarify P20 description in MCS field of HE SU and HE extended range PPDU Table		2017/1/9 9:42
9180	SUNGEUN LEE	225	1 28.3.10.7.2	274	7	T	Y	274.07 28.3.10.7.2	Specify the SRP-based spatial reuse methodology refered in Spatial Reuse field	Specify SRP-based spatial reuse for clarifying the meaning of SR Disallowed in Spatial Reuse field		2017/1/9 9:42
9181	SUNGEUN LEE	225	1 28.3.10.7.2	274	10	T	Y	274.10 28.3.10.7.2	Complete Spatial Reuse field definition and usage for HE SU and HE extended range SU PPDUs	Complete Spatial Reuse field definition and usage for HE SU and HE extended range SU PPDUs and remove 'NOTE-This part needs further development'		2017/1/9 9:42
9182	SUNGEUN LEE	225	1 28.3.10.7.2	274	13	E	Y	274.13 28.3.10.7.2	Reference 27.11a (TXVECTOR parameters SPATIAL_REUSE for an HE PPDU) is incorrect in Spatial Reuse field	Change 27.11a (TXVECTOR parameters SPATIAL_REUSE for an HE PPDU) to the correct reference 27.11.6		2017/1/9 9:42
9183	SUNGEUN LEE	225	1 28.3.10.7.2	276	44	T	Y	276.44 28.3.10.7.2	Complete Spatial Reuse field definition and usage for HE MU PPDU.	Complete Spatial Reuse field definition and usage for HE MU PPDU and remove 'NOTE-This part needs further development'		2017/1/9 9:42
9184	SUNGEUN LEE	225	1 28.3.10.7.2	276	33	E	Y	276.33 28.3.10.7.2	Fix the typo HE-SIB-B	Change HE-SIB-B to HE-SIG-B		2017/1/9 9:42
9185	SUNGEUN LEE	225	1 28.3.10.7.2	276	47	E	Y	276.47 28.3.10.7.2	Reference 27.11a (TXVECTOR parameters SPATIAL_REUSE for an HE PPDU) is incorrect in Spatial Reuse field	Change 27.11a (TXVECTOR parameters SPATIAL_REUSE for an HE PPDU) to the correct reference 27.11.6		2017/1/9 9:42
9186	SUNGEUN LEE	225	1 28.3.10.7.3	283	2	E	Y	283.02 28.3.10.7.3	upper bound L is slightly truncated in I(D) equation	Reconfigure equation to display all parameters properly		2017/1/9 9:42
9187	SUNGEUN LEE	225	1 28.3.10.10	311	23	E	Y	311.23 28.3.10.10	Equation (22-46) is an incorrect reference number from REVmc.	Change to (21-46)		2017/1/9 9:42
9188	SUNGEUN LEE	225	1 28.3.10.10	313	3	E	Y	313.03 28.3.10.10	Equation (22-46) is an incorrect reference number from REVmc.	Change to (21-46)		2017/1/9 9:42

9189 SUNGEUN LEE	225	1 28.3.10.10	313	23	T	Y	313.23 28.3.10.10	TGI in HE-LTF equation, i.e., Eq (28-58) should be clarified more from the parameter table.	Replace TGI to TGI,HE-LTF and also update the description in parameter table accordingly	2017/1/9 9:42
9190 SUNGEUN LEE	225	1 28.3.10.10	313	38	T	Y	313.38 28.3.10.10	TGI in HE-LTF equation, i.e., Eq (28-59) should be clarified more from the parameter table.	Replace TGI to TGI,HE-LTF and also update the description in parameter table accordingly	2017/1/9 9:42
9191 SUNGEUN LEE	225	1 28.3.11.5.2	318	34	E	Y	318.34 28.3.11.5.2	Equation (20-35) is an incorrect reference number from REVmc.	Change to (19-35)	2017/1/9 9:42
9192 SUNGEUN LEE	225	1 28.3.11.5.2	318	47	E	Y	318.47 28.3.11.5.2	Equation (20-36) is an incorrect reference number from REVmc.	Change to (19-36)	2017/1/9 9:42
9193 SUNGEUN LEE	225	1 28.3.11.5.5	322	24	E	Y	322.24 28.3.11.5.5	Wrong section reference 20.3.11.7.5 (LDPC PPDU encoding process),	Change to the wrong section number to the correct one, i.e., 19.3.11.7.5 (LDPC PPDU encoding process) based on 802.11-2016	2017/1/9 9:42
9194 SUNGEUN LEE	225	1 28.3.11.5.5	322	26	E	Y	322.26 28.3.11.5.5	Wrong section reference 20.3.11.7.5 (LDPC Wrong section references PPDU encoding process)	Change to the wrong section number to the correct one, i.e., 19.3.11.7.5 (LDPC PPDU encoding process) based on 802.11-2016	2017/1/9 9:42
9195 SUNGEUN LEE	225	1 28.3.11.5.5	322	33	E	Y	322.33 28.3.11.5.5	20.3.11.7.5 (LDPC PPDU encoding process),	Change to the wrong section number to the correct one, i.e., 19.3.11.7.5 (LDPC PPDU encoding process) based on 802.11-2016	2017/1/9 9:42
9196 SUNGEUN LEE	225	1 28.3.11.10	327	58	E	Y	327.58 28.3.11.10	Wrong section reference 22.3.10.9.4 (Space-time block coding),	Change the wrong section number to the correct one, i.e., 21.3.10.9.4 (Space-time block coding) based on 802.11-2016	2017/1/9 9:42
9197 SUNGEUN LEE	225	1 28.3.11.9	327	40	E	Y	327.40 28.3.11.9	Section number is wrong as 18.3.5.8	Change the wrong section number and description to 17.3.5.8 (Subcarrier modulation mapping) based on 802.11-2016	2017/1/9 9:42
9198 SUNGEUN LEE	225	1 28.3.11.11	329	4	E	Y	329.04 28.3.11.11	Wrong section reference (see 25.3.10.7)	Change the wrong reference to the correct one	2017/1/9 9:42
9199 SUNGEUN LEE	225	1 28.3.11.14	335	55	T	Y	335.55 28.3.11.14	RU range r is from 0 to N_RU in Eq (28-109)	Change the range of r from 0 to NRU-1 in Eq (28-109) based on P802.11ax D1.0	2017/1/9 9:42
9200 SUNGEUN LEE	225	1 28.3.11.14	336	58	E	Y	336.58 28.3.11.14	Wrong section reference 22.3.10.11.1 (Transmission in VHT format)	Change the wrong section number to the correct one, i.e., 21.3.10.11.1 (Transmission in VHT format) based on 802.11-2016	2017/1/9 9:42
9201 SUNGEUN LEE	225	1 28.3.19	362	44	E	Y	362.44 28.3.19	Wrong section reference	Fix the wrong section reference 26.2.x (Support for NON-HT,HT, and VTH formats) to the correct one	2017/1/9 9:42
9202 SUNGEUN LEE	225	1 28.3.19	362	57	E	Y	362.57 28.3.19	Wrong section reference 22.3.18.5 (CCA sensitivity)	Change the wrong section number to the correct one, i.e., 21.3.18.5 (CCA sensitivity) based on 802.11-2016	2017/1/9 9:42
9203 SUNGEUN LEE	225	1 28.3.20	368	62	E	Y	368.62 28.3.20	Wrong section reference 22.3.18.5 (CCA sensitivity)	Change the wrong section number to the correct one, i.e., 21.3.18.5 (CCA sensitivity) based on 802.11-2016	2017/1/9 9:42
9204 SUNGEUN LEE	225	1 28.3.20	368	13	E	Y	368.13 28.3.20	Refered section numbers in the figure 28-51 are wrong since it was based on 802.11ac-2013.	Update many section numbers in the Figure 28-51-PHY receive state machine to refer the correc section based on 802.11-2016	2017/1/9 9:42
9205 SUNGEUN LEE	225	1 28.4.1	371	20	E	Y	371.20 28.4.1	Table 25-1 is an incorrect reference.	Change to correct reference Table (xx-yy)	2017/1/9 9:42
9206 Thomas Handte	225	1 28.3.3.1	228	48	E	N	228.48 28.3.3.1	Differentiation between OFDM and OFDMA in Fig. 28-1 not clear. Why is user A addressed in OFDM and OFDMA mode?	Have to separate Figures: One for OFDM and one for OFDMA	2017/1/9 9:42
9207 Thomas Handte	225	1 28.3.3.10.3	240	8	T	Y	240.08 28.3.3.10.3	Not clear what "masking LTF sequence of each spatial stream by a distinct orthogonal code" is	Specify or reference what is a distinct orthogonal code and how it is defined	2017/1/9 9:42
9208 Thomas Handte	225	1 28.3.10.7.2	274	10	T	Y	274.10 28.3.10.7.2	Signaling for spatial reuse needs further development	Specify signaling for spatial reuse. Equivalent specification as in Table 28-19 may be appropriate	2017/1/9 9:42
9209 Thomas Handte	225	1 28.3.10.7.2	276	40	T	Y	276.40 28.3.10.7.2	Signaling for spatial reuse needs further development	Specify signaling for spatial reuse. Equivalent specification as in Table 28-19 may be appropriate	2017/1/9 9:42
9210 Thomas Handte	225	1 28.3.10.7.2	279	23	T	N	279.23 28.3.10.7.2	Spatial reuse fields labelled with 2, 3, and 4. In some BW setups, all or some of the fields have an identical and redundant value.	Consider declaring fields as reserved. This would affect spatial reuse fields 2, 3, and 4 and Note 1	2017/1/9 9:42
9211 Thomas Handte	225	1 28.3.10.8.4	292	1	E	N	292.01 28.3.10.8.4	(continued) in table header missing	Add "(continued)"	2017/1/9 9:42
9212 Thomas Handte	225	1 28.3.10.8.4	293	1	E	N	293.01 28.3.10.8.4	(continued) in table header missing	Add "(continued)"	2017/1/9 9:42
9213 Thomas Handte	225	1 28.3.11.9	325	2	E	N	325.02 28.3.11.9	Add information about which bits decide the quadrant	Add "Bit label b0 and b5 specify the quadrant of 1024-QAM constellation."	2017/1/9 9:42

9214	Tomoko Adachi	225	1	27.4			T	Y	27.4	Even if the STA receives only a Trigger frame and an Action Ack frame, it should respond with a Multi-STA BlockAck as there might be data frames aggregated. The response behavior will be simple if whenever an Action Ack.frame is received with a Trigger frame, the STA has to respond with a Multi-STA BlockAck.	Specify that whenever an Action Ack frame is aggregated with a Trigger frame, the STA shall respond with a Multi-STA BlockAck.	2017/1/9 9:42
9215	Tomoko Adachi	225	1	10.28.4	137	11	E	Y	137.11 10.28.4	Wrong reference number.	Change "25.10.4" to "27.10.4".	2017/1/9 9:42
9216	Tomoko Adachi	225	1	27.10.4	194	30	T	Y	194.30 27.10.4	The rules are described in 27.10.4 when the STA gains access to the medium and aggregate QoS Data frames from one or more TIDs in the A-MPDU. But the Action frame is not mentioned. It is as though implicitly restricting such case but not clear.	Change the part "When TXOP limit is not zero then the STA may aggregate QoS Data frames from one or more TIDs in the A-MPDU under the following conditions:" to "When TXOP limit is not zero then the STA may aggregate QoS Data frames from one or more TIDs but not Action frames in the A-MPDU under the following conditions:"	2017/1/9 9:42
9217	Tomoko Adachi	225	1	3.1			T	Y	3.1	Definition of OFDMA should be added in 3.1.	Insert clause 3.1 to the draft and add definition of OFDMA there.	2017/1/9 9:42
9218	Tomoko Adachi	225	1	3.1			T	Y	3.1	In the baseline, there is the following note after the definition of MU-MIMO: "NOTE–IEEE Std 802.11 supports only downlink (DL) MU-MIMO. See downlink multi-user multiple input, multiple output (DL-MU-MIMO) (in 3.2)." This is now not true.	Insert the definition of MU-MIMO and its note to clause 3.1 of the draft and strike out the note to show its deleted.	2017/1/9 9:42
9219	Tomoko Adachi	225	1	3.1			T	Y	3.1	In the baseline, PPDU is defined as follows: "The unit of data exchanged between "two peer" PHY entities to provide the PHY data service." This won't include MU PPDU.	Insert the definition of PPDU to clause 3.1 of the draft and strike out the "two peer" part to show its deleted.	2017/1/9 9:42
9220	Tomoko Adachi	225	1	3.2			T	Y	3.2	The current definition of MU PPDU in the baseline is limited to DL and MU-MIMO. UL and OFDMA should be also included.	Insert the definition of MU PPDU to clause 3.2 of the draft and change the definition of MU PPDU to also cover UL and OFDMA.	2017/1/9 9:42
9221	Tomoko Adachi	225	1	3.2			T	Y	3.2	The current definition of user in the baseline covers MU-MIMO but not OFDMA.	Insert the definition of user to clause 3.2 of the draft and change the definition of user to also cover OFDMA.	2017/1/9 9:42
9222	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of UL-MU-MIMO should be included.	Add a definition of UL-MU-MIMO in clause 3.2.	2017/1/9 9:42
9223	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of HE BSS should be included.	Add a definition of HE BSS in clause 3.2.	2017/1/9 9:42
9224	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of HE beamformee should be included.	Add a definition of HE beamformee in clause 3.2.	2017/1/9 9:42
9225	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of HE beamformer should be included.	Add a definition of HE beamformer in clause 3.2.	2017/1/9 9:42
9226	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of HE-MCS should be included.	Add a definition of HE-MCS in clause 3.2.	2017/1/9 9:42
9227	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of HE MU PPDU should be included.	Add a definition of HE MU PPDU in clause 3.2.	2017/1/9 9:42
9228	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of HE PPDU should be included.	Add a definition of HE PPDU in clause 3.2.	2017/1/9 9:42
9229	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of HE SU PPDU should be included.	Add a definition of HE SU PPDU in clause 3.2.	2017/1/9 9:42
9230	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of DL-OFDMA should be included.	Add a definition of DL-OFDMA in clause 3.2.	2017/1/9 9:42
9231	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of UL-OFDMA should be included.	Add a definition of UL-OFDMA in clause 3.2.	2017/1/9 9:42
9232	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of SR should be included.	Add a definition of SR in clause 3.2.	2017/1/9 9:42
9233	Tomoko Adachi	225	1	3.2			T	Y	3.2	The definition of SRP-based SR should be included.	Add a definition of SRP-based SR in clause 3.2.	2017/1/9 9:42
9234	Tomoko Adachi	225	1	3.4			E	Y	3.4	The acronym definition of UL-MU-MIMO should be added.	Add an acronym definition of UL-MU-MIMO in clause 3.4.	2017/1/9 9:42
9235	Tomoko Adachi	225	1	3.4			E	Y	3.4	The acronym definition of DL-OFDMA should be added.	Add an acronym definition of DL-OFDMA in clause 3.4.	2017/1/9 9:42
9236	Tomoko Adachi	225	1	3.4			E	Y	3.4	The acronym definition of UL-OFDMA should be added.	Add an acronym definition of UL-OFDMA in clause 3.4.	2017/1/9 9:42
9237	Tomoko Adachi	225	1	3.4			E	Y	3.4	The acronym definition of SR should be added.	Add an acronym definition of SR in clause 3.4.	2017/1/9 9:42
9238	Tomoko Adachi	225	1	3.4			E	Y	3.4	The acronym definition of SRP should be added.	Add an acronym definition of SRP in clause 3.4.	2017/1/9 9:42
9239	Tomoko Adachi	225	1				E	Y		Both "DL MU-MIMO" and "DL-MU-MIMO" are used. Terminology should be unified. Referring to 802.11ac, "DL-MU-MIMO" seems to be the one to choose.	Search for "DL MU-MIMO" and replace it with "DL-MU-MIMO" throughout the draft.	2017/1/9 9:42

9240	Tomoko Adachi	225	1			E	Y		"UL MU-MIMO" is used but referring to 802.11ac using "DL-MU-MIMO", "UL-MU-MIMO" seems to be the one to use.	Search for "UL MU-MIMO" and replace it with "UL-MU-MIMO" throughout the draft.	2017/1/9 9:42
9241	Tomoko Adachi	225	1			E	Y		Both "DL OFDMA" and "DL-OFDMA" are used. Terminology should be unified. Rererring to 802.11ac using "DL-MU-MIMO", "DL-OFDMA" seems to be the one to choose.	Search for "DL OFDMA" and replace it with "DL-OFDMA" throughout the draft.	2017/1/9 9:42
9242	Tomoko Adachi	225	1			E	Y		Both "UL OFDMA" and "UL-OFDMA" are used. Terminology should be unified. Referring to 802.11ac using "DL-MU-MIMO", "UL-OFDMA" seems to be the one to choose.	Search for "UL OFDMA" and replace it with "UL-OFDMA" throughout the draft.	2017/1/9 9:42
9243	Tomoko Adachi	225	1 3.4	7	8	E	Y	7.08 3.4	As "DL-MU-MIMO" is used in the baseline, it seems that the acronym "DL MU" should be changed to "DL-MU".	Search for "DL MU" and replace it with "DL-MU" throughout the draft.	2017/1/9 9:42
9244	Tomoko Adachi	225	1 3.4	7	20	E	Y	7.20 3.4	As "DL-MU-MIMO" is used in the baseline, it seems that the acronym "UL MU" should be changed to "UL-MU".	Search for "UL MU" and replace it with "UL-MU" throughout the draft.	2017/1/9 9:42
9245	Tomoko Adachi	225	1			E	Y		"Trigger frame" is already used for other than triggering STAs to start UL-MU. See such as 2nd paragraph in 10.29.4, 4th paragraph in 11.2.3.5.1 of 802.11-2016. The name of the frame should be revisited, so that it can be defereniiated with the frames used for other purposes. Also, there are places using lower-letter "trigger" and it is better to capitalize the frame name throughout the draft.	Search for "trigger frame" and "Trigger frame" where it is used to trigger STAs to start UL-MU and replace it with "UL-MU Trigger frame" throughout the draft.	2017/1/9 9:42
9246	Tomoko Adachi	225	1 4.3.14a	9		T	Y	9.00 4.3.14a	Optional support for UL-MU-MIMO should be mentioned here.	Add such description in clause 4.3.14a.	2017/1/9 9:42
9247	Tomoko Adachi	225	1 4.3.14a	9		E	N	9.00 4.3.14a	All the items except the one in line 51 end wilhout periods. Unify the expression.	Check the style guide and unify the expression of the items in clause 4.3.14a.	2017/1/9 9:42
9248	Tomoko Adachi	225	1 4.3.14a	9	54	T	Y	9.54 4.3.14a	Multi-STA BlockAck is said to be optional here. However from p.l. 157.25 in clause 27.4.1, as UL OFDMA is mandatory, it is mandatory for HE STAs.	Change the item "Optional support for Multi-STA BlockAck" in clause 4.3.14a to "Mandatory support for Multi-STA BlockAck".	2017/1/9 9:42
9249	Tomoko Adachi	225	1 4.3.14a	9	63	T	Y	9.63 4.3.14a	It says "Multi-STA BlockAck frames are used by the AP to acknowledge the transmissions from multiple non-AP STAs." But Multi-STA BlockAck can be also used by non-AP STAs. See 9.3.1.9.1 and 27.4.1 for example. I am not sure of the intention of this sentence, but assume it was written to describe the UL-MU sequence in accordance with the previous two sentences. And the AP can also acknowledge STAs with Compressed BlockAck frames using DL-MU transmission.	Change the sentence "Multi-STA BlockAck frames are used by the AP to acknowledge the transmissions from multiple non-AP STAs." to "Multi-STA BlockAck frames may be used by the AP to acknowledge the UL-MU transmissions. " Or delete this sentence.	2017/1/9 9:42
9250	Tomoko Adachi	225	1 4.3.14a	9	64	E	N	9.64 4.3.14a	The sentence "Scheduled Trigger frames are sent by the AP to allow for non-AP STA power save." should be reconsidered.	Change the sentence "Scheduled Trigger frames are sent by the AP to allow for non-AP STA power save." to "Scheduled Trigger frames are sent by the AP to allow non-AP STAs to be in power save."	2017/1/9 9:42
9251	Tomoko Adachi	225	1 9.2.4.6.4.2	23	59	E	N	23.59 9.2.4.6.4.2	The sentence "The UL PPDU Length subfield indicates the length of the HE trigger-based PPDU response and is set to the number of OFDM symbols the Data field of the HE trigger-based PPDU minus 1." should be reconsidered. A preposition needed between "the number of OFDM symbols" and "the Data field". Don't think "response" is needed after "trigger-based PPDU".	Change the sentence "The UL PPDU Length subfield indicates the length of the HE trigger-based PPDU response and is set to the number of OFDM symbols the Data field of the HE trigger-based PPDU minus 1." to "The UL PPDU Length subfield indicates the length of the HE trigger-based PPDU and is set to the number of OFDM symbols in the Data field of the HE trigger-based PPDU minus 1.	2017/1/9 9:42
9252	Tomoko Adachi	225	1 9.2.4.6.4.2	23	65	E	N	23.65 9.2.4.6.4.2	Don't think "reponse" is necessary after "trigger-based PPDU".	Delete "response" after "the HE trigger-based PPDU".	2017/1/9 9:42

9253 Tomoko Adachi	225	1 9.3.1.9.7	38	36	E	N	38.36 9.3.1.9.7	VHT Single MPDU is changed to S-MPDU from 802.11ah.	Change "Sent as a response to an MPDU or VHT Single MPDU that solicits an immediate acknowledgement" appearing in the right hand column of Table 9-24b to "Sent as a response to an MPDU or S-MPDU that solicits an immediate acknowledgement".	2017/1/9 9:42
9254 Tomoko Adachi	225	1 9.3.1.20	40	32	T	Y	40.32 9.3.1.20	The AID11 subfield in the HE NDPA frame needs to be explained.	Add the following sentence before line 40: "The AID11 subfield contains the 11 least significant bits of the AID of a STA expected to process the following HE NDP and prepare the sounding feedback. Equal to 0 if the STA is an AP, mesh STA, or STA that is a member of an IBSS."	2017/1/9 9:42
9255 Tomoko Adachi	225	1 9.3.1.23	41	59	E	N	41.59 9.3.1.23	Space is missing between the sentences. It is also better to mark off an if-clause with a comma.	Add space before the sentence starting with "If the Trigger frame has one User Info field...". Also, add a comma after "one User Info field".	2017/1/9 9:42
9256 Tomoko Adachi	225	1 9.3.1.23	41	61	E	N	41.61 9.3.1.23	It is better to mark off an if-clause with a comma.	Add a comma after "If the Trigger frame has multiple User Info fields".	2017/1/9 9:42
9257 Tomoko Adachi	225	1 9.3.1.23	41	61	E	N	41.61 9.3.1.23	Space is missing between the sentences.	Add space before the sentence starting with "If the Trigger Type field is GCR MU-BAR, ...".	2017/1/9 9:42
9258 Tomoko Adachi	225	1 9.3.1.23	41	59	T	Y	41.59 9.3.1.23	How to set the RA field of the Trigger frame when it carries STA Info fields for OFDMA-based random access needs to be specified.	Add the following sentence to the end of the paragraph starting from page 41 line 59: "When at least one of the RU in the User Info field is allocated to UL-OFDMA-based random access, then the RA field of the Trigger frame is set to the broadcast address."	2017/1/9 9:42
9259 Tomoko Adachi	225	1 9.3.1.23	45	35	T	Y	45.35 9.3.1.23	It should be clarified that, even though the RA field of the Trigger frame is an unicast address, the AID12 subfield of the Trigger frame is set to a valid AID.	Add the following sentence after the first sentence starting from page 45 line 35: "The AID12 subfield is set to a valid AID value not equal to 0 regardless of the RA field being set to a unicast address."	2017/1/9 9:42
9260 Tomoko Adachi	225	1 9.3.1.23	45	37	E	N	45.37 9.3.1.23	Space is missing between the sentences.	Add space before the sentence starting with "User Info fields with AID = 0 ..."	2017/1/9 9:42
9261 Tomoko Adachi	225	1 9.3.1.23	45	37	E	N	45.37 9.3.1.23	Normative expression should not be used in clause 9.	Change the part "User Info fields with AID = 0 shall be allocated only after ..." to "User Info fields with AID = 0 are allocated only after ...".	2017/1/9 9:42
9262 Tomoko Adachi	225	1 9.3.1.23	47	7	T	Y	47.07 9.3.1.23	Encoding of the Starting Spatial Stream subfield should be specified.	Add the following sentence and table after Figure 9-52f: The encoding of the Starting Spatial Stream subfield is defined in Table 9-xx (Starting Spatial Stream subfield encoding). Table 9-xx - Starting Spatial Stream subfield encoding Value | Description 0 | 1st spatial stream 1 | 2nd spatial stream 2 | 3rd spatial stream 3 | 4th spatial stream 4 | 5th spatial stream 5 | 6th spatial stream 6 | 7th spatial stream 7 | 8th spatial stream	2017/1/9 9:42
9263 Tomoko Adachi	225	1 9.3.1.23	47	7	T	Y	47.07 9.3.1.23	Encoding of the Number Of Spatial Streams subfield should be specified.	Add the following sentence and table after Figure 9-52f: The encoding of the Number Of Spatial Streams subfield is defined in Table 9-xy (Number Of Spatial Streams subfield encoding). Table 9-xy - Number Of Spatial Streams subfield encoding Value | Description 0 | Nss=1 1 | Nss=2 2 | Nss=3 3 | Nss=4 4 | Nss=5 5 | Nss=6 6 | Nss=7 7 | Nss=8	2017/1/9 9:42

9264	Tomoko Adachi	225	1 9.3.1.23	49	1	T	Y	49.01 9.3.1.23	It should be clarified that, the value to be compared withn the TID Aggregation Limit subfield value in the Trigger frame is the value of the Multi-TID Aggregation Support field + 1.	Change the sentence starting from page 49 line 1 to read "The value in the TID Aggregation Limit subfield in Trigger frame is less than or equal to the value indicated in the Multi-TID Aggregation Support field in the HE Capabilities element (see 9.4.2.218 (HE Capabilities element)) plus 1.	2017/1/9 9:42
9265	Tomoko Adachi	225	1 9.4.1.63	60	54	T	Y	60.54 9.4.1.63	The values for RU Index 8 in 20 MHz are missing in Table 9-76c.	Add "+96, +122" in the right hand column of the row where 20 MHz 26-tone RU Index is 8.	2017/1/9 9:42
9266	Tomoko Adachi	225	1 9.4.1.63	62	25	T	Y	62.25 9.4.1.63	The values for RU Index 8 in 20 MHz are missing in Table 9-76d.	Add "+96, +122" in the right hand column of the row where 20 MHz 26-tone RU Index is 8.	2017/1/9 9:42
9267	Tomoko Adachi	225	1 9.4.2.1	67	16	E	N	67.16 9.4.2.1	Wrong reference number.	Change "9.4.2.213 (HE Capabilities element)" to "9.4.2.218 (HE Capabilities element)".	2017/1/9 9:42
9268	Tomoko Adachi	225	1 9.4.2.1	67	19	E	N	67.19 9.4.2.1	Wrong reference number.	Change "9.4.2.214 (HE Operation element)" to "9.4.2.219 (HE Operation element)".	2017/1/9 9:42
9269	Tomoko Adachi	225	1 9.4.2.218.3	85	48	T	Y	85.48 9.4.2.218.3	B56 now indicates support of reception of SU-Type partial *and* full bandwidth feedback in the Tx Beamforming Feedback With Trigger Frame Capability subfield in Table 9-262aa. This means it is set to 1 only if both the partial and the full bandwidth feedback is supported. The indication for the partial and for the full bandwidth feedback should be divided.	Change the definition to read as follows: If the transmitting STA is an AP STA: Bxx: indicates support of reception of SU-Type full bandwidth feedback Bxx: indicates support of reception of SU-Type partial bandwidth feedback Bxx: indicates support of reception of MU-Type partial bandwidth feedback Bxx: indicates support of reception of CQI-Only partial and full bandwidth feedback If the transmitting STA is a non-AP STA: Bxx: indicates support of transmission of SU-Type full bandwidth feedback Bxx: indicates support of transmission of SU-Type partial bandwidth feedback Bxx: indicates support of transmission of MU-Type partial bandwidth feedback Bxx: indicates support of transmission of CQI-Only partial and full bandwidth feedback	2017/1/9 9:42
9270	Tomoko Adachi	225	1 9.4.2.220	93	18	E	N	93.18 9.4.2.220	Unify the terminology whether to include "UL" before "OFDMA-based random access". All the places other than here, in page 9 line 58, and in page 413 line 12 include "UL". And if "UL" is added, referring to 802.11ac, it should be "UL-OFDMA-based".	Search for "OFDMA-based random access" not having "UL" before it and where it is used as the name of the mechanism, replace it with "UL-OFDMA-based random access." Also search for "UL OFDMA-based random access" and replace it with "UL-OFDMA-based random access".	2017/1/9 9:42
9271	Tomoko Adachi	225	1 9.7.3	108	56	E	N	108.56 9.7.3	"Multi-STA BlockAck" is the correct terminology.	Change "Multi-STA BA" in the middle column in the row for Control Response in Table 9-424 to "Multi-STA BlockAck".	2017/1/9 9:42
9272	Tomoko Adachi	225	1 9.7.3	109	28	E	N	109.28 9.7.3	"Multi-STA BlockAck" is the correct terminology.	Change "Multi-STA BA" in the middle column in the row for Multi-STA BlockAck in Table 9-425 to "Multi-STA BlockAck".	2017/1/9 9:42
9273	Tomoko Adachi	225	1 10.3.2.4	114	49	T	Y	114.49 10.3.2.4	There is no need to differentiate between whether the STA is solicited for an immediate response or not. Even if the STA is solicited for an immediate response and updated its intra-BSS NAV, the STA can still respond to the Trigger frame because the condition of intra-BSS NAV won't matter. It will just make the condition complex with no meaning.	Delete the sentence "If the STA is an HE STA and the STA is solicited for an immediate response by the PPDU carrying the received frame, the STA shall not update its NAV."	2017/1/9 9:42
9274	Tomoko Adachi	225	1 10.3.2.8a			T	N	10.3.2.8a	The MU-RTS/CTS procedure is limited among HE APs and HE STAs. Isn't it better to move under such as 27.5?	Move clause 10.3.2.8a and its subclauses between 27.5.2 and 27.5.3. Describe somewhere appropriate in 10.3.2 that the MU-RTS/CTS procedure is described in 27.5.	2017/1/9 9:42

9275	Tomoko Adachi	225	1 10.3.2.8a.1	116	3	E	N	116.03 10.3.2.8a.1	The acknowledgement responses here are responses to the DL MU PPDU. And they are achieved by UL-MU. There is also an extra period at the end of the sentence.	Change "... to protect DL MU PPDU and acknowledgement responses.." to "... to protect DL-MU PPDU and its acknowledgement responses that are achieved by UL-MU."	2017/1/9 9:42
9276	Tomoko Adachi	225	1 10.3.2.8a.1	116	29	E	N	116.29 10.3.2.8a.1	Referring to the sentence starting from line 1, the Multi-STA BlockAdk frame here is also acknowledgement responses.	Change "... to protect the scheduled HE trigger-based PPDU and Multi-STA BlockAck frame." to "... to protect the scheduled HE trigger-based PPDU and its acknowledgement responses that are achieved by a Multi-STA BlockAck frame."	2017/1/9 9:42
9277	Tomoko Adachi	225	1 10.3.2.8a.1	116	37	E	Y	116.37 10.3.2.8a.1	An acronym "TB" is not defined.	Search for "TB" and replace it with "trigger-based" throughout the draft. Or, define the acronym in clause 3.4.	2017/1/9 9:42
9278	Tomoko Adachi	225	1 10.3.2.10.3	120	7	E	N	120.07 10.3.2.10.3	Space is missing between the sentences.	Add space before the sentence starting with "Specifically, when an AP transmits ...".	2017/1/9 9:42
9279	Tomoko Adachi	225	1 10.3.2.10.3	120	22	E	N	120.22 10.3.2.10.3	The explanation of Figure 10-12b starting from line 14 says the BlockAck frames are sent by DL OFDMA. So, like in Figure 10-12a, the BlockAck frames should be described that they are sent by OFDMA.	Add "OFDMA BA" above the "BA" frames in Figure 10-12b.	2017/1/9 9:42
9280	Tomoko Adachi	225	1 10.3.2.10.3	120	39	E	N	120.39 10.3.2.10.3	The explanation of Figure 10-12b starting from line 14 says the BlockAck frames are sent by DL OFDMA. The title of Figure 10-12b should align with it.	Change the title of Figure 10-12b to "An example of an UL MU transmission with an immediate DL OFDMA transmission containing individually addressed BlockAck frames acknowledging the frames received from the respective STAs".	2017/1/9 9:42
9281	Tomoko Adachi	225	1 10.3.2.10.3	121	43	E	N	121.43 10.3.2.10.3	Figure 10-12d has only 4 STAs but Figures 10-12a to 10-12c have n STAs. There is no reason the number of STAs should be limited to 4 for this case.	Change Figure 10-12d to show n STAs are involved in the sequence.	2017/1/9 9:42
9282	Tomoko Adachi	225	1 10.22.2.9	133	37	T	Y	133.37 10.22.2.9	In clause 27.2.2, it is said that an HE AP doesn't need to maintain two NAVs. How the truncation rule described in clause 10.22.2.9 is applied to such AP is not clear. Even if the behavior described in clause 27.2.1 is also applied to such AP, such AP doesn't need to remember whether the most recent NAV update was due to an intra-BSS frame or an inter-BSS frame.	Clarify in clause 27.2.1 that an HE AP maintaining only one NAV doesn't need to hold the cause information of the most recent NAV update and that an HE STA maintaining two NAVs doesn't need to to hold the cause information of the most recent NAV updated of the basic NAV. Add a sentence in clause 10.22.2.9 to refer to clause 27.2.1. Or change the title of subclause 27.2.2 to "Operation of two NAVs" and describe the truncation rule which is specific to HE STAs maintaining two NAVs there.	2017/1/9 9:42
9283	Tomoko Adachi	225	1 10.28.3	136	27	E	N	136.27 10.28.3	VHT Single MPDU is changed to S-MPDU from 802.11ah.	Change "..., as a VHT single MPDU, ..." to "..., as an S-MPDU, ..."	2017/1/9 9:42
9284	Tomoko Adachi	225	1 27.2.2	150	58	T	Y	150.58 27.2.2	There is no need to differentiate between whether the STA is solicited for an immediate response or not. Even if the STA is solicited for an immediate response and updated its intra-BSS NAV, the STA can still respond to the Trigger frame because the condition of intra-BSS NAV won't matter. It will just make the condition complex with no meaning.	Delete the item "The STA is not solicited an immediate response by the PPDU carrying the frame."	2017/1/9 9:42
9285	Tomoko Adachi	225	1 27.2.2	151	42	T	Y	151.42 27.2.2	NOTE 2 should be a baseline text, not a note.	Move the content of NOTE 2 to a baseline text and remove NOTE 2.	2017/1/9 9:42

9286 Tomoko Adachi	225	1 27.4.1	157	22	T	Y	157.22 27.4.1	UL OFDMA is mandatory at HE STAs. Therefore the support of Multi-STA BlockAck frame is mandatory at HE STAs. And the generation of Multi-STA BlockAck frames is under the operation of HT-immediate BA.	Change the sentences "An HE STA shall support generation of Compressed BlockAck frames if HT-immediate BA is supported in the role of recipient (see 10.24.7.1 (Introduction). An HE STA shall support generation of Multi-STA BlockAck frame if either UL MU operation (see 27.5.2 (UL MU operation)) or multi-TID A-MPDU operation (27.10.4 (A-MPDU with multiple TIDs)) is supported in the role of recipient." to "An HE STA shall support generation of Compressed BlockAck frames and Multi-STA BlockAck frames if HT-immediate BA is supported in the role of recipient (see 10.24.7.1 (Introduction)."		2017/1/9 9:42
9287 Tomoko Adachi	225	1 27.4.4.4	161	36	E	Y	161.36 27.4.4.4	A Trigger frame always solicit an immediate response. The part "that intents to solicit an immediate response" is redundant and confusing.	Change the sentence "A non-AP STA that sends an HE trigger-based PPDU as a response to a Basic variant Trigger frame that intends to solicit an immediate response shall set the Ack Policy to Normal Ack/Implicit BAR ..." to "A non-AP STA that sends an HE trigger-based PPDU as a response to a Basic variant Trigger frame shall set the Ack Policy to Normal Ack/Implicit BAR ...".		2017/1/9 9:42
9288 Tomoko Adachi	225	1 27.4.4.4	161	38	T	Y	161.38 27.4.4.4	The referred clause number is wrong.	Change "... 10.3.2.11.4 (MU acknowledgement procedure for an UL MU transmission) ..." to "... 10.3.2.10.3 (Acknowledgement procedure for an UL MU transmission) ...".		2017/1/9 9:42
9289 Tomoko Adachi	225	1 27.5.1.1	161	57	E	Y	161.57 27.5.1.1	There is no reason that "with" needs to start with an upper letter.	Change "A STA shall not transmit a DL OFDMA With MIMO PPDU that contains ..." to "A STA shall not transmit a DL OFDMA within MIMO PPDU that contains ...".		2017/1/9 9:42
9290 Tomoko Adachi	225	1 27.5.1.1	161	58	T	Y	161.58 27.5.1.1	There is no DL OFDMA With MIMO Support field defined. It should be DL MU-MIMO on Partial BW field.	Change "... with the DL OFDMA With MIMO Support field set to 1." to "... with the DL MU-MIMO Partial BW field set to 1."		2017/1/9 9:42
9291 Tomoko Adachi	225	1 27.5.2.2.1	164	57	E	N	164.57 27.5.2.2.1	"BlockAck" is the correct terminology.	Change "immediate Multi-STA BA frame" in line 57 to "immediate Multi-STA BlockAck frame".		2017/1/9 9:42
9292 Tomoko Adachi	225	1 27.5.2.2.2	166	11	E	Y	166.11 27.5.2.2.2	The rules described in this paragraph are especially for the trigger frames in the same MU PPDU. The intention will be more clear if "MU" is added between "same" and "PPDU".	Add "MU" between "same" and "PPDU" where they appear in the paragraph starting from line 11. (3 appearances.)		2017/1/9 9:42
9293 Tomoko Adachi	225	1 27.5.2.2.2	166	65	E	N	166.65 27.5.2.2.2	Space is missing between the sentences.	Add space before the sentence starting with "A value 0 indicates to the STA that ...".		2017/1/9 9:42
9294 Tomoko Adachi	225	1 27.5.2.2.2	167	1	T	Y	167.01 27.5.2.2.2	As in p.l. 48.60, the TID Aggregation Limit is to limit the maximum number of TIDs. The sentence here does not align with that definition.	Change the sentence "A value 0 indicates to the STA that it shall not solicit any immediate response for the MPDUs that the STA aggregates in the HE trigger-based PPDU." to "A value 0 indicates to the STA that it shall not transmit any QoS Data MPDUs in the HE trigger-based PPDU." Or change the definition of the TID Aggregation Limit to only apply to the number of TIDs transmitted in QoS Data frames with implicit BAR (i.e., don't care No Ack frames) and update the sentences in p.l. 48.60 and 167.01 to align with it.		2017/1/9 9:42
9295 Tomoko Adachi	225	1 27.5.2.2.2	167	1	E	N	167.01 27.5.2.2.2	Space is missing between the sentences.	Add space before the sentence starting with "A value greater than 0 indicates ...".		2017/1/9 9:42

9296 Tomoko Adachi	225	1 27.5.2.3	168	51	T	Y	168.51 27.5.2.3	There is no SS Allocation field in Common Info field. The Starting Spatial Stream subfield is a value based on Nss and the STARTING_STS_NUM is a value based on Nsts. So it is not proper to set exactly the same value of Starting Spatial Stream subfield to the STARTING_STS_NUM. Also "shall be set to" is repeated.	Change the item "The STARTING_STS_NUM parameter shall be set to shall be set to the value of the Starting Spatial Stream subfield of the SS Allocation field in the Common Info field of the eliciting Trigger frame" to "The STARTING_STS_NUM parameter shall be set to the starting STS number indicated by the Starting Spatial Stream subfield of the SS Allocation field of the User Info field and STBC field in the Common Info field of the Trigger frame".		2017/1/9 9:42
9297 Tomoko Adachi	225	1 27.5.2.4	170	37	T	Y	170.37 27.5.2.4	The contents of this paragraph is already mentioned in clause 27.2.2, from page 150 line 27. Also, as the CS after the Trigger frame doesn't case the intra-BSS NAV, emphasizing the general interpretation under two NAVs by setting this paragraph after the paragraph starting from line 26 is misleading.	Describe that the CS for UL-MU is done during SIFS after the reception of the Trigger frame and refer clause 27.2.2 for the virtual CS operation for HE STAs. Delete the paragraph starting from line 37 in page 170.		2017/1/9 9:42
9298 Tomoko Adachi	225	1 27.5.2.6.2	173	18	E	N	173.18 27.5.2.6.2	M-BA is not defined as an acronym.	Change "M-BA" to "Multi-STA BlockAck" in Figure 27-1. (2 appearances.)		2017/1/9 9:42
9299 Tomoko Adachi	225	1 27.5.3	175	12	E	N	175.12 27.5.3	"Multi-STA BlockAck" is the correct terminology.	Change "Multi-STA BA" to "Multi-STA BlockAck" in Figure 27-2.		2017/1/9 9:42
9300 Tomoko Adachi	225	1 27.6.2	176	25	T	Y	176.25 27.6.2	Make the description of AID11 subfield in the HE NDP Announcement frame more accurate.	Change the sentence "If the HE NDP Announcement frame includes more than one STA Info field, the RA field of the HE NDP Announcement frame shall be set to the broadcast address, otherwise it shall be set to the MAC address of the STA whose AID is included in the STA Info field." to "If the HE NDP Announcement frame includes more than one STA Info field, the RA field of the HE NDP Announcement frame shall be set to the broadcast address, otherwise it shall be set to the MAC address of the STA whose 11 least significant bits of the AID is included in the AID11 subfield of the STA Info field. If the intended STA is other than an AP, mesh STA, or STA that is a member of an IBSS, the AID11 subfield shall be set to a valid AID value not equal to 0 regardless of the RA field being set to a unicast address."		2017/1/9 9:42
9301 Tomoko Adachi	225	1 27.6.2	176	48	T	Y	176.48 27.6.2	There is no subfield named Rx HE-MCS Map. It should be the Rx MCS NSS Descriptors subfield.	Change "Rx HE-MCS Map subfield" to "Rx MCS NSS Descriptors subfield" in page 176 line 48, in page 203 line 14, in page 205 line 10, and in page 205 line 12.		2017/1/9 9:42
9302 Tomoko Adachi	225	1 27.6.2	176	48	T	Y	176.48 27.6.2	There is no field named supported HE-MCS and NSS set. It should be the Tx Rx HE MCS NSS Support field.	Change "supported HE-MCS and NSS set field" to "Tx Rx HE MCS NSS Support field" in page 176 line 48. Change "Supported HE-MCS and NSS set field" to "Tx Rx HE MCS NSS Support field" in page 179 line 34, in page 202 line 29, in page 202 line 30, in page 203, line 8, in page 203 line 35, in page 204 line 38, in page 205 line 10, in page 373 line 5, and in page 373 line 6.		2017/1/9 9:42

9303	Tomoko Adachi	225	1 9.4.2.218.4	86	34	E	Y	86.34 9.4.2.218.4	The HE Capabilities element is described that it includes the Tx Rx HE MCS NSS Support field in subclause 9.4.2.218.1, not Tx Rx HE MCS Support field.	Change the subclause title from "Tx Rx HE MCS Support field" to "Tx Rx HE MCS NSS Support field". Change "Tx Rx HE MCS Support field" to "Tx Rx HE MCS NSS Support field" in page 86 line 37. Change the caption of Figure 9-589cm from "Tx Rx HE MCS Support field format" to "Tx Rx HE MCS NSS Support field format". Change "Tx Rx HE MCS Support field" to "Tx Rx HE MCS NSS Support field" in page 87 line 58, in page 191 line 55, in page 191 line 59, in page 238 line 41, and in page 240 line 26.		2017/1/9 9:42
9304	Tomoko Adachi	225	1 27.6.2	176	56	T	Y	176.56 27.6.2	There is no subfield named Received Operating Mode Indication. This should be the HE variant HT Control field when Control ID subfield is 1.	Change "... that carried a Received Operating Mode Indication subfield ..." to "... that carried the HE variant HT Control field with Control ID subfield set to 1 ...".		2017/1/9 9:42
9305	Tomoko Adachi	225	1 27.6.2	176	62	T	Y	176.62 27.6.2	There is no field named Beamformee STS Capability. The target subfields should be the Beamformee STS For <= 80 MHz, Beamformee STS For > 80 MHz, NSTS Total For <= 80 MHz, and NSTS Total For > 80 MHz in the HE PHY Capabilities Information field.	Change "... through the Beamformee STS Capability field." to "... through the HE PHY Capabilities Information field." in page 176 line 62.		2017/1/9 9:42
9306	Tomoko Adachi	225	1 9.4.2.218.3	84	49	T	Y	84.49 9.4.2.218.3	From its name, Beamformee STS For <= 80 MHz, this subfield should apply for up to 80 MHz channel width.	Add in the description for Beamformee STS For <= 80 MHz subfield that it applies when the channel width is eual to or less than 80 MHz.		2017/1/9 9:42
9307	Tomoko Adachi	225	1 9.4.2.218.3	84	56	T	Y	84.56 9.4.2.218.3	From its name, NSTS Total For <= 80 MHz, this subfield should apply for up to 80 MHz channel width.	Add in the description for NSTS Total For <= 80 MHz subfield that it applies when the channel width is eual to or less than 80 MHz.		2017/1/9 9:42
9308	Tomoko Adachi	225	1 9.4.2.218.3	85	6	T	Y	85.06 9.4.2.218.3	From its name, Beamformee STS For > 80 MHz, this subfield should apply for more than 80 MHz channel width.	Add in the description for Beamformee STS For > 80 MHz subfield that it applies when the channel width is more than 80 MHz.		2017/1/9 9:42
9309	Tomoko Adachi	225	1 9.4.2.218.3	85	13	T	Y	85.13 9.4.2.218.3	From its name, NSTS Total For > 80 MHz, this subfield should apply for more than 80 MHz channel width.	Add in the description for NSTS Total For > 80 MHz subfield that it applies when the channel width is more than 80 MHz.		2017/1/9 9:42
9310	Tomoko Adachi	225	1 9.4.2.218.3	85	14	E	Y	85.14 9.4.2.218.3	It is "a DL-MU-MIMO transmission" not "an DL MU-MIMO transmission".	Change "an DL MU-MIMO transmission" to "a DL-MU-MIMO transmission".		2017/1/9 9:42
9311	Tomoko Adachi	225	1 9.4.2.218.3	85	20	T	Y	85.20 9.4.2.218.3	From its name, Number Of Sounding Dimensions For <= 80 MHz, this subfield should apply for up to 80 MHz channel width.	Add in the description for Number Of Sounding Dimensions For <= 80 MHz subfield that it applies when the channel width is equal to or less than 80 MHz.		2017/1/9 9:42
9312	Tomoko Adachi	225	1 9.4.2.218.3	85	26	T	Y	85.26 9.4.2.218.3	From its name, Number Of Sounding Dimensions For > 80 MHz, this subfield should apply for more than 80 MHz channel width.	Add in the description for Number Of Sounding Dimensions For > 80 MHz subfield that it applies when the channel width is more than 80 MHz.		2017/1/9 9:42
9313	Tomoko Adachi	225	1 27.7.3.2	185	19	T	Y	185.19 27.7.3.2	AM is not defined as an acronym. It seems to be used for "active mode".	Change "AM" in page 185 line 19 to "active mode".		2017/1/9 9:42
9314	Tomoko Adachi	225	1 27.7.3.3	185	62	T	Y	185.62 27.7.3.3	The sentence starting from line 62 seems to be one of the early TXT SP termination events.	Move the sentence from line 62 to be the 3rd item in the previous paragraph.		2017/1/9 9:42
9315	Tomoko Adachi	225	1 27.9.2.2	191		T	Y	191.00 27.9.2.2	The TXPWR can be a short term value and can be any value during CS as nothing will be transmitted. So adjusting the OBSS_PD level by the TXPWR seems not to be the right direction. It seems better to unify the mechanism to adjust the TXPWRmax by the OBSS_PD level.	Unify the mechanism to adjust the TXPWRmax by the OBSS_PD level, not adjusting the OBSS_PD level by the TXPWR.		2017/1/9 9:42

9316 Tomoko Adachi	225	1 27.11.2	196	11	T	Y	196.11 27.11.2	It is unclear why the UPLINK_FLAG needs to be set to 0 for RTS/CTS frames sent with TXOP Duration set to all 1s. When the AP transmits an RTS frame with the UPLINK_FLAG set to 0 in an Extended Range SU PPDU, and the receiver STA transmits a CTS frame with the UPLINK_FLAG to 1 in an Extended Range SU PPDU, as all the HE STAs within the BSS receives that RTS frame from the AP, the 3rd party HE STA can set the NAV by the RTS frame. Therefore, even if the UPLINK_FLAG in the CTS frame is set to 1 and the 3rd party HE STAs go to PPDU Power Save, the 3rd party HE STAs will hold the NAV value. Next when the STA transmits an RTS frame with the UPLINK_FLAG set to 1 in an Extended Range SU PPDU, and the AP which is the receiver of the RTS frame transmits a CTS frame with the UPLINK_FLAG set to 0 in an Extended Range SU PPDU,	Delete "except when the HE PPDU is an HE extended range SU PPDU with the TXOP Duration field set to all 1s and contains an RTS or CTS frame in which case the STA may set the TXVECTOR parameter UPLINK_FLAG to 0" from the first item starting from line 11 in page 196.			2017/1/9 9:42
9317 Tomoko Adachi	225	1 27.15.4.1	203	18	E	Y	203.18 27.15.4.1	Wrong reference number.	Change 9.4.2.213.3 to 9.4.2.218.4 and show the subclause title in brackets.			2017/1/9 9:42
9318 Tomoko Adachi	225	1 28.3.3.8.2	238	37	E	Y	238.37 28.3.3.8.2	The sentence "An HE STA shall support reception of DL MU-MIMO transmissions on full bandwidth with maximum number of space-time streams (per user) equal to minimum of 4 and the maximum number of space-time streams supported for reception of HE SU PPDUs." should be reconsidered to be more clear.	Change the sentence "An HE STA shall support reception of DL MU-MIMO transmissions on full bandwidth with maximum number of space-time streams (per user) equal to minimum of 4 and the maximum number of space-time streams supported for reception of HE SU PPDUs." to "An HE STA shall support reception of DL MU-MIMO transmissions on full bandwidth with maximum number of space-time streams (per user) which is the minimum of 4 and the maximum number of space-time streams supported for reception of HE SU PPDUs."			2017/1/9 9:42
9319 Tomoko Adachi	225	1 28.3.3.10.4	240	21	E	Y	240.21 28.3.3.10.4	The sentence "A STA capable of UL MU-MIMO transmission shall support UL MU-MIMO transmissions on full bandwidth with maximum number of space-time streams (per user) equal to minimum of 4 and the maximum number of space-time streams supported for transmission of HE SU PPDUs." should be reconsidered to be more clear.	Change the sentence "A STA capable of UL MU-MIMO transmission shall support UL MU-MIMO transmissions on full bandwidth with maximum number of space-time streams (per user) equal to minimum of 4 and the maximum number of space-time streams supported for transmission of HE SU PPDUs." to "A STA capable of UL MU-MIMO transmission shall support UL MU-MIMO transmissions on full bandwidth with maximum number of space-time streams (per user) which is the minimum of 4 and the maximum number of space-time streams supported for transmission of HE SU PPDUs."			2017/1/9 9:42
9320 Tomoko Adachi	225	1 28.3.3.8.2	238	35	T	Y	238.35 28.3.3.8.2	In the SFD, there was the following requirement: "For an 11ax AP, support for DL MU-MIMO transmission, where MU-MIMO is being done on the entire PPDU BW, shall be mandatory if the AP supports TxNss >= 4." This is mentioned in subclause 4.3.14a but should be also mentioned in subclause 28.3.3.8.2, as other similar requirements are mentioned here.	As in comment.			2017/1/9 9:42
9321 Tomoko Adachi	225	1 28.5	373	4	T	Y	373.04 28.5	There is no subfield named Tx or Rx Highest Supported Long GI Data Rate.	Update the subfield name "Tx or Rx Highest Supported Long GI Data Rate" which appears in line 4 and line 6 in page 373.			2017/1/9 9:42
9322 Tomoko Adachi	225	1 28.5	373	24	E	Y	373.24 28.5	It seems that NBPCS appearing in Tables 28-47 to 28-102 should be NBPSCS.	Change NBPCS to NBPSCS in Tables 28-47 to 28-102.			2017/1/9 9:42

9323	Tomoko Adachi	225	1 28.3.12	340	13	T	Y	340.13 28.3.12	T_{HE-SIG-A-R} is described as HE-SIG-A field duration in an HE extended range SU PPDU and its value is 16 ++s = 4 + 4 ++s in Table 28-9. Also t_{HE-STF} for an HE extended range SU PPDU is defined as t_{HE-SIG-A}+T_{HE-SIG-A-R} on p.263. In these two places, T_{HE-SIG-A-R} includes both the original HE-SIG-A field duration and the repeated HE-SIG-A field duration. But for T_{HE-PREAMBLE} for an HE extended range SU PPDU in eq. (28-117), T_{HE-SIG-A-R} is interpreted to be only for the repeated part and added with T_{HE-SIG-A}. To be consistent with the usage in Table 28-9 and in p.263, T_{HE-SIG-A-R} should be the full HE-SIG-A field duration including the repeated part and "+T_{HE-SIG-A}" should be removed from the expression.	Change the expression for an HE extended range SU PPDU in line 13 to T_{HE-PREAMBLE} = T_{RL-SIG}+T_{HE-SIG-A-R}+T_{HE-STF-NT}+N_{HE-LTF}T_{HE-LTF, SYM}.	2017/1/9 9:42
9324	Tomoko Adachi	225	1 B.4.10	410	21	T	Y	410.21 B.4.10	B.4.10 is for functionality, so dividing into transmission and reception for Multi-STA BlockAck is not necessary here. (If such division is necessary, the place will be B.4.4.2. However, referring to other examples, it is not required up to that level.)	Delete the rows for OB4.5.1 and OB4.5.2. Add "CFHE:M" (or "CFHEW:M", see the other comment relating to B.4) in the Status column for OB4.5 and fill in its Support column.	2017/1/9 9:42
9325	Tomoko Adachi	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	Period and space are missing between the sentences.	Change the part "... selects one of the RUs assigned to AID value 0If the selected RU is idle ..." to "... selects one of the RUs assigned to AID value 0. If the selected RU is idle ...".	2017/1/9 9:42
9326	Tomoko Adachi	225	1 27.5.2.6.2	173	51	T	Y	173.51 27.5.2.6.2	Those STAs that had their CS busy and not transmitted should reselect OCW to avoid collision with new STAs whose OBO counter decremented to zero in the next Trigger frame.	Change "... and it randomly selects any one of the RUs that are assigned to AID value 0 in the subsequent Trigger frame." to "... and it shall initialize its OBO counter to a random value in the range of 0 and OCWmin"	2017/1/9 9:42
9327	Tomoko Adachi	225	1 10.9	127	12	T	Y	127.12 10.9	The "<reference>" should be specified.	Change "<reference>" to "10.3.2.4".	2017/1/9 9:42
9328	Tomoko Adachi	225	1 27.4.4.5	162	14	E	Y	162.14 27.4.4.5	The "individually addressed Multi-STA BlockAck frame" is followed by "to each of the STAs" and "individually addressed" is redundant. Also, the other Multi-STA BlockAck frames appearing in the same item with the same usage doesn't have "individually addressed" and are just followed by "to each of the STAs".	Change "... with Ack frame or an individually addressed Multi-STA BlockAck frame to each of the STAs from which ..." to "... with an Ack frame or a Multi-STA BlockAck frame to each of the STAs from which ...".	2017/1/9 9:42
9329	Tomoko Adachi	225	1			E	Y		Does "Single MPDU" have a special meaning. Don't think so.	Search for "Single MPDU" and replace it with "single MPDU" throughout the draft.	2017/1/9 9:42
9330	Tomoko Adachi	225	1 27.4.4.5	162	24	T	Y	162.24 27.4.4.5	The support of reception of MU Multi-STA BlockAck frame should be specified by a subfield.	Change the part "... if the receivers of group-addressed Multi-STA BlockAck frame announce the support the reception of MU Multi-STA BlockAck frame." to "... if the receivers of group-addressed Multi-STA BlockAck frame announce the support the reception of MU Multi-STA BlockAck frame by the Group Addressed Multi-STA BlockAck In DL MU Support subfield in the HE MAC Capabilities Information field."	2017/1/9 9:42
9331	Tomoko Adachi	225	1			E	N		Not "a S-MPDU" but "an S-MPDU".	Search for "a S-MPDU" and replace it with "an S-MPDU".	2017/1/9 9:42

9332	Tomoko Adachi	225	1 27.5.2.6			T	Y	27.5.2.6	Currently, it is considered that both the associated STAs and unassociated STAs are allowed to join the UL OFDMA-based random access. However, the real state that the STA is in and the state that the AP thinks the STA is in according to the association may be different. This is because there is no complete mechanism for the AP to syncrhonize with the STA. Therefore, when the AP acknowledges to those STAs that the AP thinks they are still associated with the Multi-STA BlockAck, some of the STAs that already disassociated may not distinguish the AIDs that the AP used for those STAs. The opposite perception gap may also occur. And as the unassociated STAs don't have their AIDs assigned, the AP can't acknowledge those unassociated STAs with the regular Multi-STA BlockAck procedure.	If both the associated STAs and unassociated STAs are handled together in the UL OFDMA-based random access, the way to solve the problems described in the comment will be to have the STAs responding to the UL OFDMA-based random access to set their AIDs if they are associated and temporary AIDs if they are unassociated in the Duration/ID field of the MPDUs. The temporary AIDs will be selected randomly from the range other than the one for AIDs. The AP will use the AIDs and/or temporary AIDs set in the Duration/ID fields for the Multi-STA BlockAck to respond to those transmission sent through UL OFDMA-based random access. For the probability of temporary AIDs colliding, as the unassociated STAs will only transmit management request frames and have timeout to wait for management response frames, the unassociated STAs can solve by themselves. The other way will be to divide	2017/1/9 9:42
9333	Tomoko Adachi	225	1 9.3.1.23			T	N	9.3.1.23	Most of the User Info subfields in the Trigger frame can be the same for RUs for UL OFDMA-based random access. This means the Trigger frame can be shorter and more efficient.	Limit the RU size that can be used for UL OFDMA-based random access in each Trigger frame and reduce the redundancy.	2017/1/9 9:42
9334	Tomoko Adachi	225	1 11.1.3.10			T	Y	11.1.3.10	When the AP transmits beacons in an HE_EXT_SU PHY format, it uses the dual beacon mechanism. However, the dual beacon mechanism is deprecated in the baseline (see Table 9-168 and subclause 11.1.3.2 in 802.11-2016). There is no need to reintroduce this again. Just allowing the beacons to be transmitted in an HE_EXT_SU PHY format is enough.	Add in subclause 10.7.5.3 a condition to allow beacon frames and group addressed frames to be transmitted in an HE_EXT_SU PHY format if the BSSBasicRateSet, the Basic HT-MCS Set, and the basic VHT-MCS and NSS set are all empty and only the Basic HE MCS And NSS Set is not empty. Delete subclause 11.1.3.10, delete the definition of high efficient (HE) dual beacon from subclause 3.2, replace the Dual Beacon subfield in the HE Operation Parameters field to reserved and delete the description of the Dual Beacon subfield in subclause 9.4.2.219.	2017/1/9 9:42
9335	Tomoko Adachi	225	1 B.4.4.2	409	28	T	Y	409.28 B.4.4.2	The References column is not filled in for the Trigger frame. As most of the other examples have "9" here, just filling in "9" seems to be enough.	Add "9" to the References column for FT43.	2017/1/9 9:42
9336	Tomoko Adachi	225	1 B.4			T	Y	B.4	"CFHEW" is not defined but used in the Status columns. It should be "CFHE" in line 42 of page 407.	Change all those appearing as "CFHEW" to "CFHE". Or change the item name "CFHE" to "CFHEW" in line 42 of page 407 and replace all those written as "CFHE" in the Status columns to "CFHEW", if any.	2017/1/9 9:42
9337	Tomoko Adachi	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	The content of the paragraph starting from line 39 is repeated in the next paragraph. The next paragraph also the other cases and should be kept.	Delete the paragraph starting from line 39 of page 91.	2017/1/9 9:42
9338	Tomoko Adachi	225	1 9.4.2.219	93	11	T	Y	93.11 9.4.2.219	It is better to define a channel width indication exclusive for HE STAs. There is a case when the AP wants to limit the channel width of the legacy STAs narrower than the HE STAs. This is because the HE STAs can coexist with the OBSS STAs in the secondary channels better than the legacy STAs.	Add "The content of the VHT Operation Information field in the HE Operation element may be different from the content notified in the VHT Operation element. The HE STAs follow the information specified in the VHT Operation Information field of the HE Operation element." after the sentence starting fom line 11 in page 93.	2017/1/9 9:42

9339	Tomoko Adachi	225	1 27.5.2.4			T	Y	27.5.2.4	As aSIFSTime is defined in 10.3.7 as aSIFSTime = aRxPHYDelay + aMACProcessingDelay + aTxPHYDelay + aRxTxSwitchTime + aTxRampOnTime and it doesn't include aCCATime (8.3.5.12), in the original 802.11 SIFS, STAs that even have enough processing time for CCA don't have to sense the medium during SIFS from the definition point of view. But now the HE STAs are required to perform ED-based CCA if they didn't require MAC padding in a Trigger frame.	Add "HE STAs that did not require the MAC padding field in the Trigger frame shall secure a time to perform ED-based CCA during aSIFSTime. HE STAs that required the MAC padding field in the Trigger frame shall secure a time to perform ED-based CCA during MinTrigProcTime+aSIFSTime." after eq. (10-4) in subclause 10.3.7.		2017/1/9 9:42
9340	Tomoko Adachi	225	1 9.3.1.23	45	26	E	Y	45.26 9.3.1.23	The same field name "RU Allocation" appears in the User Info field of the Trigger frame and in the Common Block subfield of the HE-SIG-B field but they are completely different. They should have a different name to avoid confusion.	Change the RU Allocation subfield in the User Info field of the Trigger frame to something different, such as Allocated RU subfield throughout the draft.		2017/1/9 9:42
9341	Tomoko Adachi	225	1 10.9	127	47	T	Y	127.47 10.9	"At most one Control subfield with a given Control ID value shall be present in the A-Control field of QoS Data or Management frames carried in an (A-)MPDU." Does this mean that at most one Control subfield with a given Control ID value shall be present in the A-Control field and the A-Control field with no Control subfield is also allowed? Or does it mean that at most one Control subfield can be present in an (A-)MPDU? I think if a frame carried an A-Control field, a single Control subfield with a given Control ID value shall be contained in the A-Control field, and any of the frames that carried the A-Control field in an A-MPDU shall have the same Control subfield.	Reconsider the sentence to be more clear. Have the same content appear in all of the A-Control fields within the same A-MPDU.		2017/1/9 9:42
9342	Tomoko Adachi	225	1 9.2.4.6.4.4	25	9	E	Y	25.09 9.2.4.6.4.4	Wrong reference number.	Change "9.31.4" to "27.13" and update the title of the subclause in brackets.		2017/1/9 9:42
9343	Tomoko Adachi	225	1 9.4.2.200	73	14	E	Y	73.14 9.4.2.200	Wrong reference number.	Change "25.14" to "27.13" and update the title of the subclause in brackets.		2017/1/9 9:42
9344	Tomoko Adachi	225	1 9.4.2.200	73	40	E	Y	73.40 9.4.2.200	Wrong reference number.	Change "25.14" to "27.13" and update the title of the subclause in brackets.		2017/1/9 9:42
9345	Tomoko Adachi	225	1 10.9	127	27	E	Y	127.27 10.9	Wrong reference number.	Change "10.31.4" to "27.13" and update the title of the subclause in brackets.		2017/1/9 9:42
9346	Tomoko Adachi	225	1 10.22.2.8	133	18	T	Y	133.18 10.22.2.8	Link adaptation through the HE variant HT Control field is specified in 27.13 and it should be also included.	Add "and 27.13 (Link adaptation using the HE variant HT Control field)" at the end of item e).		2017/1/9 9:42
9347	Tomoko Adachi	225	1 9.3.1.23	47	44	T	Y	47.44 9.3.1.23	"The Padding field extends the frame length to give the recipient STAs more time to prepare a response." More time than SIFS.	Add "than SIFS" after "more time".		2017/1/9 9:42
9348	Tomoko Adachi	225	1 9.7.1	106	32	T	Y	106.32 9.7.1	The "EOF" subfield is no longer an end of frame indication. This is used by HE STAs to let the responder know in acknowledging the frame in Ack, not in BlockAck bitmap, through the Multi-STA BlockAck.	Update the description of "EOF" subfield in Table 9-422 to cover the usage described in subclause 27.10.4. An S-MPDU should be destinguished by EOF set to 1 and no subframes other than with MPDU Length field equal to 0 following. Change the subfield name from "EOF" to "EOF/Ack indication".		2017/1/9 9:42
9349	Tomoko Adachi	225	1 27.10.3	193	19	T	Y	193.19 27.10.3	"The STA shall not add an A-MPDU subframe with EOF equal to 0 after any A-MPDU subframe with EOF set to 1." This should not be correct. With the usage described in subclause 27.10.4, there can be A-MPDU subframes with EOF equal to 0 coming after an A-MPDU subframe with EOF set to 1.	Change the sentence to "The STA shall not add an A-MPDU subframe with EOF equal to 0 after any A-MPDU subframe with EOF set to 1 and with MPDU Length field equal to 0."		2017/1/9 9:42
9350	Tomoko Adachi	225	1 9.3.1.23.1	48	61	T	Y	48.61 9.3.1.23.1	Count Action Ack frame as one TID (TID=15) when considering the TID Aggregation Limit subfield.	Add "Action Ack frame is also treated to consume one TID (TID=15)." after the sentence starting from line 61 in page 48.		2017/1/9 9:42

9351 Tomoko Adachi	225	1 27.4			T	Y	27.4	How does the STA respond if the AP transmits a DL-SU PPDU with a Trigger frame, an Action Ack frame, and a QoS Data frame in implicit BAR aggregated, but the STA only received the Action Ack frame? The correct answer will be to not respond for this case. But in the current rule, it is not restricted to aggregate a Trigger frame, so the STA cannot determine whether it can respond or not. The same question will arise when the AP transmits a DL-SU PPDU with a Trigger frame and an Action Ack frame aggregated (but with no QoS data frame) and the STA only received the Action Ack frame.	Specify that whenever an Action Ack frame is aggregated with other frames soliciting immediate response, a Trigger frame shall be aggregated, too. Or, restrict DL-SU PPDU to a single receiver not to include a Trigger frame.		2017/1/9 9:42
9352 Weimin Xing	225	1 3.2	4	28	E	Y	4.28 3.2	Change Clause "26" to Clause "28"	As in comment		2017/1/9 9:42
9353 Weimin Xing	225	1 4.3.14a	9	60	E	Y	9.60 4.3.14a	Change "MU OFDMA" to "OFDMA"	As in comment		2017/1/9 9:42
9354 Weimin Xing	225	1 6.3.3.3.2	11	41	E	Y	11.41 6.3.3.3.2	Add the text as the following: "Otherwise,this parameter is not present"	As in comment		2017/1/9 9:42
9355 Weimin Xing	225	1 9.2.4.1.8	19	40	T	Y	19.40 9.2.4.1.8	In 802.11 baseline, the Bit 7 of QoS Info field when sent by an AP is reserved. In 802.11ax, we allow that AP can set the More Data Ack subfield to 1 in the QoS Info field of frames it transmits. Please change the meanings of the Bit7 in the QoS Info when sent by an AP.	As in comment		2017/1/9 9:42
9356 Weimin Xing	225	1 9..2.4.1.10	19	57	E	Y	19.57 9..2.4.1.10	Change "two purposes" to "three purposes"	as in comment		2017/1/9 9:42
9357 Weimin Xing	225	1 9.2.4.6.4.1	23	37	E	Y	23.37 9.2.4.6.4.1	Missing the description of Reverse Direction Protocol (RDP)	Please add "See 9.2.4.6.4.8┤+ΩReverse Direction Protocol (RDP)├+5"		2017/1/9 9:42
9358 Weimin Xing	225	1 9.2.4.6.4.5	26	51	E	Y	26.51 9.2.4.6.4.5	The discription of Queue Size subfields is not accurate. Change "Queue Size subfields" to "Queue Size High subfield and Queue Size All subfield"	As in comment		2017/1/9 9:42
9359 Weimin Xing	225	1 9.2.4.7.1	30	37	E	Y	30.37 9.2.4.7.1	Wrong reference. Change "9.3.3.1(Beacon frame format)" to "9.3.3.2(Format of Management frames)".	As in comment		2017/1/9 9:42
9360 Weimin Xing	225	1 9.3.1.9.1	34	10	E	Y	34.10 9.3.1.9.1	Change "B6" to "B5"	As in comment		2017/1/9 9:42
9361 Weimin Xing	225	1 9.3.1.9.3	37	16	T	Y	37.16 9.3.1.9.3	Fragmentation is allowed in an A-MSDU when dot11AMSDUFragmentationOptionImplemented is true. Delete the sentence "For an A-MSDU, only the first bit of the subbitmap is used, as fragmentation is not allowed in an A-MSDU "	As in comment		2017/1/9 9:42
9362 Weimin Xing	225	1 9.3.1.9.7	39	62	T	Y	39.62 9.3.1.9.7	Fragmentation is allowed in an A-MSDU when dot11AMSDUFragmentationOptionImplemented is true. Delete the sentence "For an A-MSDU, only the first bit of the subbitmap is used, as fragmentation is not allowed in an A-MSDU "	As in comment		2017/1/9 9:42
9363 Weimin Xing	225	1 9.3.1.9.7	37	23	T	Y	37.23 9.3.1.9.7	The Multi-STA Block variant can also used for single-STA multi-TID and single-STA single-TID BlockAck variant.	Please add the cases for single-STA multi-TID and single-STA single-TID BlockAck variant.		2017/1/9 9:42
9364 Weimin Xing	225	1 9.3.1.9.7	38	54	T	Y	38.54 9.3.1.9.7	Change "N/A" to "Block Ack Bitmap"	As in comment		2017/1/9 9:42
9365 Weimin Xing	225	1 9.3.1.23	41	48	E	Y	41.48 9.3.1.23	change (RA) to RA	change (RA) to RA		2017/1/9 9:42
9366 Weimin Xing	225	1 9.3.1.23	44	51	E	Y	44.51 9.3.1.23	change "61" to "60"	As in comment		2017/1/9 9:42
9367 Weimin Xing	225	1 9.3.3.5	52	47	E	Y	52.47 9.3.3.5	Change "9.3.3.5" to "9.3.3.6"	As in comment		2017/1/9 9:42
9368 Weimin Xing	225	1 9.3.3.5	52	65	T	Y	52.65 9.3.3.5	The TWT element is optionally present if dot11TWTOptionActivated is true; otherwise it is not present.	Please add the TWT element in Table 9-29		2017/1/9 9:42
9369 Weimin Xing	225	1 9.3.3.7	53	58	T	Y	53.58 9.3.3.7	The TWT element is optionally present if dot11TWTOptionActivated is true; otherwise it is not present.	Please add the TWT element in Table 9-31		2017/1/9 9:42
9370 Weimin Xing	225	1 9.4.2.218.2	76	47	E	Y	76.47 9.4.2.218.2	Change "4" to "1" for B24 Group Addressed Multi-STA BlockAck in DL MU Support	As in comment		2017/1/9 9:42
9371 Weimin Xing	225	1 9.4.2.218.2	77	43	G	Y	77.43 9.4.2.218.2	Change "Single MPDU" to "S-MPDU"	As in comment		2017/1/9 9:42

9372	Weimin Xing	225	1 9.4.2.218.2	81	35	E	Y	81.35 9.4.2.218.2	Bits for "Number of Sounding Dimensions for 80 MHz is 3 not 1;Bits for NSTS Total <=80MHz is 3 not 1;Bits for Number of Sounding Dimensions for <=80MHz is 3 not 1.	As in comment	2017/1/9 9:42
9373	Weimin Xing	225	1 9.4.2.220	93	60	E	Y	93.60 9.4.2.220	Change EOCW_max to EOCWmax	As in comment	2017/1/9 9:42
9374	Weimin Xing	225	1 9.7.1	107	2	E	Y	107.02 9.7.1	Change "VHT PPDU" to "VHT or HE PPDU"	As in comment	2017/1/9 9:42
9375	Weimin Xing	225	1 9.7.1	107	15	E	Y	107.15 9.7.1	Change "VHT PPDU" to "VHT or HE PPDU"	As in comment	2017/1/9 9:42
9376	Weimin Xing	225	1 10.22.2.5	130	62	E	Y	130.62 10.22.2.5	Change "and" to "or"	As in comment	2017/1/9 9:42
9377	Weimin Xing	225	1 10.24.10.3	134	40	G	Y	134.40 10.24.10.3	Change "MU BAR" to "GCR MU BAR" in 10.24.10.3 GCR block ack BlockAckReq and BlockAck frame exchanges	As in comment	2017/1/9 9:42
9378	Weimin Xing	225	1 27.2.1	149	35	T	Y	149.35 27.2.1	Add the case for the Multiple BSSID Set.	Please change the text to "The RXVECTOR parameter PARTIAL_AID in the received VHT PPDU with the RXVECTOR parameter GROUP_ID equal to 0 is the same as the BSSID[39:47] of the AP to which the STA is associated or the BSSID[39:47] of any member of the Multiple BSSID Set."	2017/1/9 9:42
9379	Weimin Xing	225	1 27.2.1	150	4	T	Y	150.04 27.2.1	Add the case for the Multiple BSSID Set.	Please change the text to "The RXVECTOR parameter PARTIAL_AID of the received VHT PPDU frame with the RXVECTOR parameter GROUP_ID equal to 0 is different from the BSSID[39:47] of the AP to which the STA is associated and the BSSID[39:47] of any member of the Multiple BSSID Set."	2017/1/9 9:42
9380	Weimin Xing	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	A non-AP HE STA can also send an HE MU PPDU. When an HE AP receives an HE MU PPDU, the AP can not determine whether the PPDU is an inter-BSS or an intra-BSS PPDU.	Please change the text to "An HE AP receives either a VHT MU PPDU or a DL HE MU PPDU	2017/1/9 9:42
9381	Weimin Xing	225	1 27.2.2	150	58	T	Y	150.58 27.2.2	Based on current text, if a STA is solicited an immediate respsonse by the PPDU carrying the frame, the STA shall not update the intra-BSS NAV by the received frame. However, when the STA can not respond the frame due to CS busy, How to update the NAV?	Please Clarify.	2017/1/9 9:42
9382	Weimin Xing	225	1 27.4.1	157	49	E	Y	157.49 27.4.1	Change "Multi-STA" to "Multi-STA BA"	As in comment	2017/1/9 9:42
9383	Weimin Xing	225	1 8.3.5.3.2	15	47	E	Y	15.47 8.3.5.3.2	This session discribes the PHY-DATA.indication. Change "PHY-DATA.request" to "PHY-DATA.indication"	Please change "PHY-DATA.request" to "PHY-DATA.indication"	2017/1/9 9:42
9384	Weimin Xing	225	1 9.3.3.1	52	24	E	Y	52.24 9.3.3.1	MU EDCA Parameter Set element is missing in Beacon frame. Please add MU EDCA Parameter Set element in Beacon frame.	As in comment	2017/1/9 9:42
9385	Weimin Xing	225	1 10.3.2.4	114	33	T	Y	114.33 10.3.2.4	What is a valid TXOP_DURATION? Setting to all 1s is valid or not?	Please Clarify it.	2017/1/9 9:42
9386	Weimin Xing	225	1 10.3.2.4	114	62	T	Y	114.62 10.3.2.4	Which NAV shall be updated? In 27.2.2, updating two NAVs are described, therefore it is not necessary to describe NAV updating here	Please remove it.	2017/1/9 9:42
9387	Woojin Ahn	225	1 9.7.3	109	3	T	Y	109.03 9.7.3	In a Multi-TID A-MPDU of data enabled immediate response context, QoS Data with Ack policy set to No Ack may also be aggregated with QoS Data soliciting immediate response of other TID.	Add a row for QoS Data with Ack Policy set to No Ack in Table 9-425	2017/1/9 9:42
9388	Woojin Ahn	225	1 9.7.3	109	3	T	Y	109.03 9.7.3	In Multi-TID A-MPDUs of data enabled immediate response, Action No Ack can be aggregated as well.	Add a row for Action No Ack in Table 9-425	2017/1/9 9:42
9389	Woojin Ahn	225	1 9.7.3	111	3	T	Y	111.03 9.7.3	In data enabled no immediate response context, Data frames without block ack agreement from multiple different TIDs can be aggregated.	Change to: QoS Data frames with multiple TIDs that does not correspond to a block ack agreement. These have the Ack Policy field equal to No Ack and the A-MSDU Present subfield equal to 0.	2017/1/9 9:42

9390	Woojin Ahn	225	1 9.7.3	111	3	T	Y	111.03 9.7.3	In HE BSS, TXOP holder may transmit Ack, HT-immediate BlockAck, M-BA in an A-MPDU of data enabled no immediate response context (e.g., MU cascading).	Add rows for Ack, HT-immediate BlockAck, M-BA in Table 9-426	2017/1/9 9:42
9391	Woojin Ahn	225	1 9.7.3	108	60	E	Y	108.60 9.7.3	Table 9-429 is not present	Add the table	2017/1/9 9:42
9392	Woojin Ahn	225	1 27.10.4	193	54	T	Y	193.54 27.10.4	The baseline says "The STA shall not add an A-MPDU subframe with EOF equal to 0 after any A-MPDU subframe with EOF set to 1." It is better to clarify MPDU aggregation rule for consistency and receiver's procedure	MPDUs with EOF 1 and non-zero length should not be present before MPDUs with EOF 0	2017/1/9 9:42
9393	Woojin Ahn	225	1 27.10.4	193	32	T	Y	193.32 27.10.4	An MPDU with EOF 1 and non-zero length may be aggregated with other MPDUs not soliciting immediate responses (QoS Data No Ack, Action No Ack, QoS Null) in an A-MPDU. Is the A-MPDU an S-MPDU or a single TID A-MPDU or a Multi TID A-MPDU?	Need to clarify	2017/1/9 9:42
9394	Woojin Ahn	225	1 27.4.4	160	27	T	Y	160.27 27.4.4	If an askedforack MPDU was aggregated with another askedforack MPDU in an A-MPDU and one of the askedforack MPDU was the only MPDU successfully received by the intended recipient, than the recipient may respond with an Ack frame in which case the originator cannot process the acknowledgement	The recipient should respond with an M-BA frame unless it received the whole A-MPDU successfully	2017/1/9 9:42
9395	Woojin Ahn	225	1 27.4.4	160	27	T	Y	160.27 27.4.4	If an MPDU with EOF 1 and non-zero length is aggregated with Action No Ack in an A-MPDU, then the A-MPDU is neither an S-MPDU nor a multi-TID A-MPDU, in which case, the A-MPDU must be responded by compressed BA that doesn't have Ack type field.	If there is only one MPDU that solicits an immediate response in an A-MPDU, the recipient should respond with an Ack frame even if the MPDU was not the only MPDU in the A-MPDU	2017/1/9 9:42
9396	Woojin Ahn	225	1 9.2.4.6.4.7	27	47	E	Y	27.47 9.2.4.6.4.7	HE DL HE MU	HE DL MU	2017/1/9 9:42
9397	Woojin Ahn	225	1 9.2.4.6.4.7	28	5	T	Y	28.05 9.2.4.6.4.7	When a non-AP STA transmits unsolicited BQR A-control, what kind of encoding type should the STA select? All encoding types other than 160 and 80+80 doesn't seem necessary.	Please clarify	2017/1/9 9:42
9398	Woojin Ahn	225	1 27.5.1.3	163	49	T	Y	163.49 27.5.1.3	The HE STA shall not solicit an immediate response for the frames carried in the trigger-based PPDU (e.g., by setting the Ack Policy subfield of the frame to Normal Ack or Implicit BAR). --> MPDUs transmitted in HE TB PPDU shall not set Ack type subfield to BlockAck either. Only No Ack is possible in this case.	The HE STA shall set the Ack Policy subfield of the frames carried in the trigger-based PPDU to No Ack	2017/1/9 9:42
9399	Woojin Ahn	225	1 27.3.2	152	53	T	Y	152.53 27.3.2	Static fragmentation allows only one outstanding fragment per TID. However, level 3 Dynamic fragmentation allows multiple outstanding fragments per TID per SN with different sizes. It is necessary to define an appropriate Fragment Number Space in order for an level 3 originator to refer when it generates a new fragment	Define Fragment Number Space	2017/1/9 9:42
9400	Woojin Ahn	225	1 27.3.3.1	153	19	E	Y	153.19 27.3.3.1	two periods	Remove period	2017/1/9 9:42
9401	Woojin Ahn	225	1 27.3.3.1	153	29	T	Y	153.29 27.3.3.1	When an originator receives an explicit indication of transmission failure, it may resize the transmitted fragment as long as the recipient hasn't received any fragments of higher FN successfully.	As per comment	2017/1/9 9:42
9402	Woojin Ahn	225	1 9.4.2.218.2	79	42	E	Y	79.42 9.4.2.218.2	(Table 9-262z) No contents in Maximum A-MPDU Length Exponent	Fill the blanks	2017/1/9 9:42

9403	Woojin Ahn	225	1 27.2.3	152	20	T	Y	152.20 27.2.3	If an EDCAF reported that its buffer is empty during a UL MU procedure, that EDCAF cannot expect to be scheduled by AP for the following UL MU transmissions. The EDCAF should be exempted from entering MU mode	As per comment	2017/1/9 9:42
9404	Woojin Ahn	225	1 27.5.2.6.2	173	55	T	Y	173.55 27.5.2.6.2	What happens to the OBO value after a STA succeeded a random access procedure? Should the OBO remain the same, the STA will have another opportunity at the subsequent TF-R	The OBO value shall be reset by randomly chosen between 0 and OCW-1 after a STA succeeded UL OFDMA random access procedure	2017/1/9 9:42
9405	Woojin Ahn	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	Does a random access capable STA without Data to transmit decrements its OBO value upon a reception of TF-R?	Please clarify	2017/1/9 9:42
9406	Woojin Ahn	225	1 27.5.2.6.2	173	45	T	Y	173.45 27.5.2.6.2	p170.1 says "If the Trigger Type field of the soliciting Trigger frame is Basic Trigger and the STA does not have a frame of the required type, the STA shall either not transmit a response or transmit one or more QoS Null frames." It is better to prevent an HE STA whose OBO is 0 and has no data from transmitting QoS Null in order to reduce unnecessary collision.	As per comment	2017/1/9 9:42
9407	Woojin Ahn	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	AID value 0If	Insert period and space	2017/1/9 9:42
9408	Woojin Ahn	225	1 27.5.2.6.2	173	45	T	Y	173.45 27.5.2.6.2	Is it possible for STAs to choose not participate UL OFDMA random access upon the reception of TF-R?	Allow STA to choose not to participate random access in which case the STA does not decrement its OBO	2017/1/9 9:42
9409	Woojin Ahn	225	1 27.8.3	189	35	T	Y	189.35 27.8.3	OMI responder shall not transmit an action frame in HE MU PPDU to an OMI initiator with UL MU Disable subfield is set to 1	As per comment	2017/1/9 9:42
9410	Woojin Ahn	225	1 9.3.1.23	42	8	E	Y	42.08 9.3.1.23	GIAnd --> GI And	As per comment	2017/1/9 9:42
9411	Woojin Ahn	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	(indicating a random access allocation).. --> Two periods	Remove a period	2017/1/9 9:42
9412	Woojin Ahn	225	1 10.22.2.8	133	25	T	Y	133.25 10.22.2.8	In the baseline, there are several exceptions that allows a STA to exceed the TXOP limit which can be avoided in HE BSS (regarding dynamic fragmentation). For better channel utilization of HE AP, the TXOP limit exception rules must be further clarified for HE STAs.	As per comment	2017/1/9 9:42
9413	Woojin Ahn	225	1 27.3.2	152	52	T	Y	152.52 27.3.2	It is not allowed to generate a dynamic fragment from an MSDU of service class QoSNoAck, since it requires BA agreement. It is necessary to allow it for better efficiency	As per comment	2017/1/9 9:42
9414	Woojin Ahn	225	1 27.2.2	150	57	T	Y	150.57 27.2.2	If a STA is solicited by a Trigger Frame and the scheduled RU is considered busy by the UL MU CS mechanism, then the STA shall not transmit TB PPDU. Therefore the STA shall update its NAV as defined in the Trigger Frame.	As per comment	2017/1/9 9:42
9415	Woojin Ahn	225	1 27.5.2.6.2	173	31	T	Y	173.31 27.5.2.6.2	A STA might receive both normal Beacon and Dual Beacon. If both of the two beacons included RAPS elements, the STA might reset its OBO and OCW twice.	If a STA receives a normal Beacon and a Dual beacon including RAPS elements, it shall initialize its OBO and OCW only for the normal Beacon	2017/1/9 9:42
9416	Woojin Ahn	225	1 27.5.2.6.2	173	37	T	Y	173.37 27.5.2.6.2	Does an HE STA decrement its OBO for a random access RU that is not available? (e.g., MCS, BW constraints)	Please clarify	2017/1/9 9:42
9417	Woojin Ahn	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	Does a scheduled STA decrement its OBO if there exists other User Info Fields soliciting random access?	Please clarify	2017/1/9 9:42
9418	Woojin Ahn	225	1 28.3.17.6.4	349	7	T	Y	349.07 28.3.17.6.4	In order to support BQR bitmap of 20MHz units, more granular PHY-CCA.indication primitives are necessary	Define more PHY-CCA.indication primitives	2017/1/9 9:42

9419	Xiaofei Wang	225	1 10.3.2.4	114	51	T	Y	114.51 10.3.2.4	The sentence "If the STA is an HE STA, the STA is a TXOP holder, and the frame is solicited by the STA, then the STA shall not update its NAV." is not well written and is confusing. It should be rephrased.	change the sentence "If the STA is an HE STA, the STA is a TXOP holder, and the frame is solicited by the STA, then the STA shall not update its NAV." into "If the STA is an HE STA and a TXOP holder, and if the received frame is solicited by the STA, then the STA shall not update its NAV."	2017/1/9 9:42
9420	Xiaofei Wang	225	1 10.3.2.4	115	2	T	Y	115.02 10.3.2.4	The RXVECTOR parameter TXOP_DURATION is not carried by the frame. Instead, RXVECTOR is generated by the receiving STA when receiving the frame. This sentence is not correct and should be rephrased.	change the phrase "the PPDU carrying the RXVECTOR parameter TXOP_DURATION" into "the PPDU that is associated with the RXVECTOR parameter TXOP_DURATION"	2017/1/9 9:42
9421	Xiaofei Wang	225	1 10.3.2.4	114	62	T	Y	114.62 10.3.2.4	Since this is for HE STAs, which NAV would the STA be updating? Also, since this is specifically for HE STAs, should this be clearly stated?	please revise and clearly indicate which NAV to update and this is for HE STAs only.	2017/1/9 9:42
9422	Xiaofei Wang	225	1 10.3.2.4a	115	50	T	N	115.50 10.3.2.4a	It is unclear which "network situation" it is referring to. This sentence is also unnecessary. Please consider to remove or rephrase.	Remove this sentence.	2017/1/9 9:42
9423	Xiaofei Wang	225	1 10.3.2.8a.1	116	29	T	Y	116.29 10.3.2.8a.1	why is "scheduled" used in "scheduled HE trigger-based PPDU"? This "scheduled" seems to be unnecessary and should be removed. Especially since "scheduled" is not mentioned anywhere else in the figure or title.	remove "scheduled"	2017/1/9 9:42
9424	Xiaofei Wang	225	1 10.3.2.8a.2	116	55	T	Y	116.55 10.3.2.8a.2	It is strange to start the MU-RTS procedure by stating what the MU-RTS should not request a STA to send a CTS frame in a 20 MHz channel not occupied by the PPDU. Such a ""not doing something" comment normally follows the positive normative behavior. Such a normative behavior should be added.	add description first on the normative procedure on MU-RTS should request responding CTS to transmit on certain resources at the beginning of the paragraph. Or alternatively, change the order of the two sentences of this paragraph.	2017/1/9 9:42
9425	Xiaofei Wang	225	1 10.3.2.8a.2	117	5	T	Y	117.05 10.3.2.8a.2	It is unclear which STA "the recipient" is of the MU-RTS, it should be changed to "a recipient".	change "the recipient" to "a recipient" or to "one or more recipients"	2017/1/9 9:42
9426	Xiaofei Wang	225	1 10.3.2.8a.2	117	6	T	Y	117.06 10.3.2.8a.2	A CTS is not a "successful response" to a MU-RTS, rather, it is a valid response, showing that the transmission of the MU-RTS has succeeded. This sentence needs revision to make it correct.	change the phrase "as successful response" into "as a valid response"	2017/1/9 9:42
9427	Xiaofei Wang	225	1 10.3.2.8a.2	117	11	T	Y	117.11 10.3.2.8a.2	Would a MU-RTS be carried in HE Trigger-based PPDU? If not, it should be stated here together with HE MU PPDU.	add "or in an HE Trigger-Based PPDU" before the period if MU-RTS is also not carried in a HE Trigger-Based PPDU.	2017/1/9 9:42
9428	Xiaofei Wang	225	1 10.3.2.8a.3	117	25	T	Y	117.25 10.3.2.8a.3	If RU allocation in a MU-RTS to a STA is limited to only "primary 20 MHz channel, primary 40 MHz channel, primary 80 MHz channel, 160 MHz channel, or 80+80 MHz channel." and a STA is not allowed to transmit a CTS if any of the 20 MHz channel is busy, then how would punctured transmissions be supported? For example, when the secondary 20 MHz channel is not used in non-contiguous transmissions?	Allow STAs to transmit CTS in response to a MU-RTS on each of 20 MHz channels that is not busy.	2017/1/9 9:42

9429	Xiaofei Wang	225	1 10.3.2.10.3	121	55	T	Y	121.55 10.3.2.10.3	The sentence "A STA may use a BlockAckReq frame to solicit the acknowledgment frame(s), to whom the STA sent the QoS Data frame(s) with Ack Policy subfield equal to Block Ack or from whom the STA did not receive the immediate acknowledgement frames after sending QoS Data frame(s) in a HE trigger-based PPDU with Ack Policy subfield equal to Normal Ack or Implicit BAR." is confusing and not clear. It should be rewritten. Also "impilcit" is spelled wrong.	change the sentence "A STA may use a BlockAckReq frame to solicit the acknowledgment frame(s), to whom the STA sent the QoS Data frame(s) with Ack Policy subfield equal to Block Ack or from whom the STA did not receive the immediate acknowledgement frames after sending QoS Data frame(s) in a HE trigger-based PPDU with Ack Policy subfield equal to Normal Ack or Impilcit BAR." into " A STA may send a BlockAckReq frame to solicit the acknowledgment frame(s) from a STA, to whom it sent the QoS Data frame(s) with Ack Policy subfield equal to Block Ack. A STA may send a BlockAckReq frame to solicit the acknowledgement frame(s) from a STA if it did not receive the immediate acknowledgement frames after sending QoS Data frame(s) in a HE trigger-based PPDU with Ack Policy subfield equal to Normal Ack or Implicit BAR."		2017/1/9 9:42
9430	Xiaofei Wang	225	1 10.9	127	15	T	Y	127.15 10.9	The sentence "The HE variant HT Control field carried in the frame may contain a Control subfield supported by the intended receiver that has:" is not clear and confusing.	Change the sentence "The HE variant HT Control field carried in the frame may contain a Control subfield supported by the intended receiver that has:" into "The HE variant HT Control field carried in a frame may contain a Control subfield that has:"		2017/1/9 9:42
9431	Xiaofei Wang	225	1 10.22.2.2	130	1	T	Y	130.01 10.22.2.2	there is no difference in behavior regardless whether the STA has received the acknowledgement in response to MPDU sent in HE TB PPDU, is this correct? If so, there is no need to have two paragraphs. It would be more clear to have one paragraph describing the normative behavior after a STA transmits MPDU in HE TB PPDU, and states clearly that regardless of whether the STA has received acknowledgement.	Check whether the normative behavior is correct regardless whether the STA has successfully received acknowledgement. If the normative behavior is correct, then combine the two paragraphs together.		2017/1/9 9:42
9432	Xiaofei Wang	225	1 10.22.2.7	132	1	T	Y	132.01 10.22.2.7	The sentence "A Trigger frame or a frame carrying an UL MU Response Scheduling A-Control subfield followed after SIFS by the requested immediate response" is not clear and should be rephrased.	Change the sentence "A Trigger frame or a frame carrying an UL MU Response Scheduling A-Control subfield followed after SIFS by the requested immediate response" into "A Trigger frame or a frame carrying an UL MU Response Scheduling A-Control subfield followed by the requested immediate response transmitted after SIFS"		2017/1/9 9:42
9433	Xiaofei Wang	225	1 10.43.1	137	47	E	Y	137.47 10.43.1	"tha" should be "that"	change "tha" to "that"		2017/1/9 9:42
9434	Xiaofei Wang	225	1 10.43.1	137	57	E	Y	137.57 10.43.1	In Table 10-19a, there are track changes, although the table is inserted as a completely new table. It is rather confusing, is this a redlined version or just these changes indicated by track change is by mistake?	remove all track changes in Table 10-19a		2017/1/9 9:42
9435	Xiaofei Wang	225	1 10.43.1	137	57	T	Y	137.57 10.43.1	The TWT Setup exchange comment interpretation shown in Table 10-19a seems to be overly complicated and should be simplified. Otherwise, it can lead to very complicated implementation.	simplify the TWT setup exchange procedure to ensure it is simple, straightforward.		2017/1/9 9:42
9436	Xiaofei Wang	225	1 27.1	149	10	T	Y	149.10 27.1	the language of "banned" seems not appropriate for specification language and should be revised.	change the sentence into "HE STAs shall not use HCCA and the TSPEC mechanism.".		2017/1/9 9:42
9437	Xiaofei Wang	225	1 27.1	149	10	T	Y	149.10 27.1	The introduction section should contain descriptions and summaries for HE MAC instead of banning of certain behavior. Such descriptions and summaries should be added.	Provide descriptions and summaries for HE MAC in this section.		2017/1/9 9:42

9438	Xiaofei Wang	225	1 27.2.1	149	16	T	Y	149.16 27.2.1	frame detection doesn't belong to a section called Channel Access. This section should be moved to become a separate section.	Move this section to be a separate section since frame detection doesn't belong in a section called channel access		2017/1/9 9:42
9439	Xiaofei Wang	225	1 27.2.1	149	30	E	Y	149.30 27.2.1	"to which" is incorrect and should be changed to "with which"	change "to which" to "with which"		2017/1/9 9:42
9440	Xiaofei Wang	225	1 27.2.1	149	58	E	Y	149.58 27.2.1	"to which" is incorrect and should be changed to "with which"	change "to which" to "with which"		2017/1/9 9:42
9441	Xiaofei Wang	225	1 27.2.1	149	62	E	Y	149.62 27.2.1	"to which" is incorrect and should be changed to "with which"	change "to which" to "with which"		2017/1/9 9:42
9442	Xiaofei Wang	225	1 27.2.2	151	50	T	Y	151.50 27.2.2	There are no rules in Section 10.4.3.3 regarding setting or resetting the intra-BSS NAV or basic NAV, which are newly defined in 11ax, the reference is incorrect and should be rephrased.	Correct the reference to 10.4.3.3 or add additional text in section 10.4.3.3 regarding setting and resetting intra-BSS NAV or basic NAV.		2017/1/9 9:42
9443	Xiaofei Wang	225	1 27.4.1	157	48	T	Y	157.48 27.4.1	"BlockAck" is missing after "Multi-STA".	insert "BlockAck" after "received Multi-STA"		2017/1/9 9:42
9444	Xiaofei Wang	225	1 27.4.1.	158	11	T	Y	158.11 27.4.1.	The sentence "If an HE AP does not receive an HE Capabilities element with the Rx Control Frame To MultiBSS set to 1 from a STA, then the HE AP shall not send a Multi-STA Block Ack frame whose destination STAs associate with more than one APs to the STA." is not clear and very confusing; not sure which normative behavior it is describing.	Please clarify and rephrase the sentence so that it is clear which normative behavior it is describing.			2017/1/9 9:42
9445	Xiaofei Wang	225	1 27.4.1	158	16	T	Y	158.16 27.4.1	It is unclear what the HE non-AP STA is responding to? Is it a MU-BAR? Such behavior needs to clearly stated.	Please provide missing trigger to which the HE non-AP STA is responding to.		2017/1/9 9:42
9446	Xiaofei Wang	225	1 27.4.2	158	25	T	Y	158.25 27.4.2	It is unclear what "a recipient" is receiving; a recipient of a data frame, control frame, management frame, or beacon? Lack of description of such a recipient is confusing and impact the clarity of the described normative behavior	please provide clarification of this sentence so that the normative behavior is clear.		2017/1/9 9:42
9447	Xiaofei Wang	225	1 27.4.2	158	33	T	Y	158.33 27.4.2	is the limitation of Multi-STA BlockAck frame contains only one Per STA info for both all ACK context, regardless whether all MPDUs are successfully received? The normative behavior is not clear as stated by the text	please clarify and rephrase the sentence		2017/1/9 9:42
9448	Xiaofei Wang	225	1 27.5.2.6.2	173	45	T	Y	173.45 27.5.2.6.2	The current random access procedure requires the STA to choose a second random number to select a random access RU to transmit when the STA already uses a first random number to determine that it can conduct random access. Using a second random number is redundant; since the first random number is sufficient to determine both whether the STA is allowed to conduct random access and which RU to use. OBO counter can be used to choose RU if the OBO counter is smaller than the number of RUs assigned to AID value 0	Simplify the random access procedure by using use just the OBO counter for both determination whether a STA is allowed to conduct random access and which RU to use for random access.			2017/1/9 9:42
9449	Xiaofei Wang	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	A period sign is missing between 0 and If.	Change "0If" to "0. If"		2017/1/9 9:42
9450	Xiaofei Wang	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	There is no detailed procedure and normative behavior for NDP feedback and how to use them.	Either adding more details on NDP feedback procedure or remove this section		2017/1/9 9:42
9451	Xiaofei Wang	225	1 27.5.2.1	164	14	T	Y	164.14 27.5.2.1	there is no definition of 'UL OFDMA PPDU'	Define UL OFDMA PPDU or use other defined terminology.		2017/1/9 9:42
9452	Xiaofei Wang	225	1 27.5.2.1	164	24	T	Y	164.24 27.5.2.1	there is no definition of 'UL OFDMA PPDU'	Define UL OFDMA PPDU or use other defined terminology		2017/1/9 9:42
9453	Xiaofei Wang	225	1 27.5.1.1	162	56	E	Y	162.56 27.5.1.1	With' should not be capitalized and should be 'with'	Replace 'With' with 'with'		2017/1/9 9:42
9454	Xiaofei Wang	225	1 27.5.1.1	162	56	T	Y	162.56 27.5.1.1	There is no definition of "UL OFDMA with MIMO PPDU"	Either define "UL OFDMA with MIMO PPDU" or use other defined terminology		2017/1/9 9:42
9455	Xiaofei Wang	225	1 27.5.1.1	162	58	E	Y	162.58 27.5.1.1	With' should not be capitalized and should be 'with'	Replace 'With' with 'with'		2017/1/9 9:42

9456 Xiaofei Wang	225	1 27.5.2.2.2	165	56	T	Y	165.56 27.5.2.2.2	The Note is about how to set RA address in Trigger based PPDUs and it seems to be unrelated to the text above, which is on the setting of the trigger frame. It should be removed or moved to the related sections.	Remove the Note	2017/1/9 9:42
9457 Xiaofei Wang	225	1 27.5.1	162	44	T	Y	162.44 27.5.1	There are two occurrence of "STA" in this sentence, it is unclear to which "the STA" is referring. Please rephrase and clarify.	Change the sentence "An AP shall not transmit to a STA an HE MU PPDU with the HE-SIG-B allocating spatial streams to more than one recipient STA, unless the STA sets the Downlink MU-MIMO On Partial Bandwidth Rx subfield of the HE Capabilities element to 1." into "Unless a STA sets the Downlink MU-MIMO On Partial Bandwidth Rx subfield of the HE Capabilities element to 1, an AP shall not transmit to that STA an HE MU PPDU with the HE-SIG-B allocating spatial streams to more than one recipient STA."	2017/1/9 9:42
9458 Xiaofei Wang	225	1 27.16.2	206	24	T	Y	206.24 27.16.2	It may be possible that an OBSS using the same BSS Color may be only visible to STAs, but may or may not be visible to the AP. A mechanism is needed for a STA to report a visible OBSS with the same BSS Color to its AP. The AP may then make decisions whether to change the BSS Color.	Provide a mechanism for STAs to report to AP an OBSS that is visible to the STAs that uses the same BSS Color as the AP that the STAs are associated with.	2017/1/9 9:42
9459 Xiaofei Wang	225	1 27.9.2.1	190	19	T	Y	190.19 27.9.2.1	In the procedure stated for spatial reuse, a STA should not ignore any CTS frames, even if it is below OBSS_PD. The OBSS STA may be at the edge of its BSS, and any transmissions may easily destroy its receptions from its AP, being either HE MU PPDU or HE/legacy SU PPDU.	revise the spatial reuse procedure, to at least obey CTS, which may be a part of MU-RTS/CTS exchange or RTS/CTS exchange.	2017/1/9 9:42
9460 Xiaofei Wang	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	This sentence seems to be out of place; it may be a wrongly formatted title.	remove this sentence or provide the correct formatting.	2017/1/9 9:42
9461 Xiaofei Wang	225	1 27.9.2.1	190	36	T	Y	190.36 27.9.2.1	When should a STA issue a PHYCCARESET.request if the received PPDU is a legacy STA? The normative behavior seems to be lacking.	provide normative behavior on when the PHYCCARESET.request should be issued for legacy PPDUs.	2017/1/9 9:42
9462 Xiaofei Wang	225	1 28.3.10.7.2	274	10	T	Y	274.10 28.3.10.7.2	This note is another form of TBD and should not be in Draft 1.0. Either provide detailed procedures for SRP or remove entirely.	provide detailed procedure for SRP or remove entirely.	2017/1/9 9:42
9463 Xiayu Zheng	225	1 28.3.15.1	343	17	E	Y	343.17 28.3.15.1	In Equation (28-121), the sub-index for Q_k,N_user-1 should be corrected as Q_k,N_user,r,u -1	As in comment	2017/1/9 9:42
9464 Xiayu Zheng	225	1 28.3.15.2	343	59	E	Y	343.59 28.3.15.2	The index of the angle phi(k,v), should be corrected to phi(k,u) for the Beamformee u	As in comment	2017/1/9 9:42
9465 Xiayu Zheng	225	1 28.3.15.2	344	8	E	Y	344.08 28.3.15.2	The index of the angle phi(k,v), should be corrected to phi(k,u) for the Beamformee u	As in comment	2017/1/9 9:42
9466 xun yang	225	1 27.5.1.3	163	20	T	Y	163.20 27.5.1.3	"A non-AP STA with A-BQR Support subfield of its HE Capabilities element equal to 1 delivers bandwidth query reports (BQRs) to assist the AP in allocating DL MU and UL MU resources in an efficient way." But this sentence is under the subclause of "HE bandwidth query report operation for DL MU". Then it is confusing that BQR is only for DL MU or it can be used for both DL MU and UL MU.	Please clarify.	2017/1/9 9:42
9467 xun yang	225	1 27.5.1.3	163	20	T	Y	163.20 27.5.1.3	"A non-AP STA with A-BQR Support subfield of its HE Capabilities element equal to 1 delivers bandwidth query reports (BQRs) to assist the AP in allocating DL MU and UL MU resources in an efficient way." "Asist" here is not clear. How does BQR information "asist" AP allocate the MU resources?	Please clarify.	2017/1/9 9:42

9468 xun yang	225	1 27.5.1.3	163	35	T	Y	163.35 27.5.1.3	Can AP solicit BQR more than one time by sending BQRP variant trigger frame? Consider the case that the availabe channels at the triggered STAs are few or the primary 20MHz is not available at all the triggered STAs, is it allowed that AP sending trigger to other STAs to know channel availability of them?	Please clarify.	2017/1/9 9:42
9469 xun yang	225	1 28.3.10.1	267	41	T	Y	267.41 28.3.10.1	"The HE portion of HE format preamble consists of pre-HE modulated fields and HE modulated fields. The HE modulated fields consist of HE-STF, HE-LTF and Data fields." Does this mean the HE portion of HE format preamble includes data fields? How can the preamble includes data fields?	Please clarify.	2017/1/9 9:42
9470 xun yang	225	1 9.3.1.23	42	32	T	Y	42.32 9.3.1.23	There is no definition of each subfield of Trigger variant.	Please define each subfield of trigger variant to make them clear somewhere.	2017/1/9 9:42
9471 xun yang	225	1 10.3.2.10.2	119	23	T	Y	119.23 10.3.2.10.2	"A non-AP STA that is the recipient, within an HE MU PPDU, of a QoS Data frame or QoS Null frame that solicits an immediate response with Ack Policy equal to MU Ack in the QoS Control field, of an MU-BAR frame, or of an MMPDU that solicits an immediate response, shall send the immediate response according to the scheduling information defined by the UL trigger information that is carried either in the Trigger frame(s) or UL MU Response Scheduling A-Control field." Is the immediate response in OFDMA only?	Please clarify.	2017/1/9 9:42
9472 xun yang	225	1 10.28	136	18	T	Y	136.18 10.28	Is HE MU PPDU allowed to be transmit by AP in RDP initiated by non-AP STA? Is HE trigger-based PPDU allowed to be triggered by AP in RDP initiated by non-AP STA?	It is natural to follow 11ac to allow AP to transmit HE MU PPDU or trigger HE trigger-based PPDU in RDP initiated by non-AP STA.	2017/1/9 9:42
9473 xun yang	225	1 9.3.1.23	47	61	T	Y	47.61 9.3.1.23	What is the definition of "max TF MAC Padding Duration"? Where is this parameter from at the Tx side?	Please clarify.	2017/1/9 9:42
9474 xun yang	225	1 9.3.1.23	48	5	T	Y	48.05 9.3.1.23	In HE PPDU, Padding field of trigger frame is not necessary if there is PE at the end of HE PPDU or EOF paddings in AMPDU.	Please clarify that padding field is not necessary or how to pad is an implementation issue in HE PPDU.	2017/1/9 9:42
9475 xun yang	225	1 9.2.4.5.4	20	49	E	Y	20.49 9.2.4.5.4	The procedure should be defined in 10.3.2.10.2. The title of 10.3.2.10.2 should be "Acknowledgement procedure for DL MU PPDU in MU format"	Make the changes accordingly.	2017/1/9 9:42
9476 xun yang	225	1 9.3.1.3	33	1	T	Y	33.01 9.3.1.3	For simultaneous CTS (MU RTS/CTS procedure), the CTS transmitted by non-AP STA shall be the same. However, the values of several subfields in Frame Control of CTS are unclear, e.g., power management subfield is reserved, no text on how to set More Data field, etc.This does not matter when CTS is transmitted one by one; but different values will causes interference when these CTSs are transmited simultaneously.	Please ensure that all the CTS frame are the same when they are triggered by MU-RTS.	2017/1/9 9:42
9477 xun yang	225	1 27.5.2.7	174	21	T	Y	174.21 27.5.2.7	There is no definition of NDP feedback, e.g., no format of NDP feedback, no procedure of its transmission, no text on how it works, etc.	Please add text to make the concept clear.	2017/1/9 9:42

9478 xun yang	225	1 27.5.2.2.2	167	12	T	Y	167.12 27.5.2.2.2	"The AP may assign any value in the AC Preference Level subfield in the Trigger Dependent User Info field for an HE STA identified by the AID12 subfield of the User Info field of a Basic Trigger frame". Since trigger can be sent in any AC, it is possible that AP use any AC to contend the channel, and use trigger another AC in the UL transmissions. That is, the primary AC in AP's TXOP is not the AC of the TXOP. Not sure if there is any unfair issue.	It is safer to limit the preferred AC field in trigger to be the AC in which the trigger is sent to contend the channel.		2017/1/9 9:42
9479 xun yang	225	1 9.4.2.218.2	76	42	E	Y	76.42 9.4.2.218.2	B22 should be "MU Cascading Support"	As in the comment.		2017/1/9 9:42
9480 xun yang	225	1 10.3.1	113	45	T	Y	113.45 10.3.1	Is MU-RTS under control of dot11RTSThreshold? If yes, please add the related text; if not, please clarify which parameter to control MU-RTS.	As in the comment.		2017/1/9 9:42
9481 xun yang	225	1 10.3.2.8a.1	116	37	T	Y	116.37 10.3.2.8a.1	What is TB in Figure 10-9b?	Change to the name consitent with other parts of the draft.		2017/1/9 9:42
9482 Yan Zhang	225	1 9.3.1.23	44	44	T	Y	44.44 9.3.1.23	In Table 9-25e AP Tx Power subfield encoding, Values 0 to 61 maps to -20dBm to 40dBm cannot be one to one mapping. It should be Values 0 to 60 maps to -20dBm to 40dBm.	As in comment		2017/1/9 9:42
9483 Yan Zhang	225	1 9.3.1.23	47	35	T	Y	47.35 9.3.1.23	In Table 9-25g Target RSSI subfield encoding, Values 0 to 90 maps to -100dBm to -20dBm contradicts with PHY motion #156. It says that values 0 to 90 maps to -110dBm to 20dBm.	As in comment		2017/1/9 9:42
9484 Yan Zhang	225	1 28.3.9	266	53	T	Y	266.53 28.3.9	Sentence "Note that the multiplication matrices Ak_HE-LTF are included in the calculation of X(iseg,m)_k,r,u for the HE-STF and HE-LTF fields" is not completely accurate. The multiplication matrices Ak_HE-LTF should not included in the calculation of X(iseg,m)_k,r,u for HE-STF.	Change to "Note that the multiplication matrices Ak_HE-LTF are included in the calculation of X(iseg,m)_k,r,u for HE-LTF field".		2017/1/9 9:42
9485 Yan Zhang	225	1 28.3.10.10	313	23	T	Y	313.23 28.3.10.10	TGI in equations (28-58) should be replaced by TGI,HE-LTF. TGI is not defined.	As in comment		2017/1/9 9:42
9486 Yan Zhang	225	1 28.3.10.10	313	38	T	Y	313.38 28.3.10.10	TGI in equations (28-59) should be replaced by TGI,HE-LTF. TGI is not defined.	Either define the PHY mechanism for NDP feedback report, or remove this subclause and other related placehodlers.		2017/1/9 9:42
9487 Yan Zhang	225	1 28.3.10.4	270	14	T	Y	270.14 28.3.10.4	TGI,LegacyPreamble in equations (28-10) should be replaced by TGI,L-LTF, which is double value of TGI,LegacyPreamble.	Replace TGI,LegacyPreamble in equation (28-10) to TGI,L-LTF.		2017/1/9 9:42
9488 Yan Zhang	225	1 28.3.12	339	25	T	Y	339.25 28.3.12	In Table 28-39 Pre-FEC Padding Factor subfield encoding, bxx did not specify which bit is LSB and which bit is MSB. This may not be clear enough for all spec readers. Please specify it	Replace "b" with "B1B0".		2017/1/9 9:42
9489 Yan Zhang	225	1 28.3.10.10	302	5	T	Y	302.05 28.3.10.10	HELTF4x,TGI1,Data is missing from "The optional combinations of HE-LTF mode and GI duration"	Add a new bullet 4xLTF, TGI1,Data for HE SU PPDU or HE SU extended PPDU or HE MU PPDU		2017/1/9 9:42
9490 Yan Zhang	225	1 28.4.2	371	58	T	Y	371.58 28.4.2	"TPE is given by Equation (28-113)." quoted wrong equation. It should be Equation (28-117).	Replace (28-113) with (28-117)		2017/1/9 9:42

9491	Yanchun Li	225	1 27.2.3	152	10	T	Y	152.10 27.2.3	When AP has acknowledged STA's uplink buffer status report (BSR), AP will allocate trigger based transmission resource to this STA soon. Similar to the current case that STA slow down its EDCA contention after being provided trigger-based UL transmission opportunity, STA shall also slow down its EDCA contention and use MU EDCA Parameter Set after uplink BSR. Otherwise, there will be too many legacy SU transmissions. And the whole system performance just degrades to legacy SU system. It will be hard for AP to organize MU transmission. Actually, 11ax shall take advantage from MU transmission as much as possible.	Insert condition "that receives an immediate response from the AP for the transmitted BSR" to the paragraph. The paragraph is changed to: An UL MU capable non-AP HE STA that receives a Basic Trigger frame that contains a Per User Info field with the AID of the STA, and that receives an immediate response from the AP for the transmitted Trigger based PPDU, or that receives an immediate response from the AP for the transmitted BSR, shall update its CWmin[AC], CWmax[AC], AIFSN[AC] and HEMUEDCATimer[AC] state variables to the values contained in the most recently received MU EDCA Parameter Set element sent by the AP to which the STA is associated, for all the ACs from which QoS Data frames were transmitted in the HE trigger-based PPDU.		2017/1/9 9:42
9492	Yanchun Li	225	1 10.3.2.8	115	63	T	Y	115.63 10.3.2.8	Current MU-RTS/CTS uses a fundamental assumption that a STA only need to have available 20MHz channel set which is a subset of AP's available 20MHz channel set. It considers the case of AP initiated RTS. It lacks the consideration over the case that, STA may also initiate RTS which occupies a subset of AP's available 20MHz channels. Without considering this case, the adavantage of MU transmission can't be full utilized and the system proformance will be degraded. On receiving RTS from HE-STA, AP shall be able to reply with CTS to occupy AP's available 20MHz/40MHz/80MHz/160MHz . Then AP can to RDG to trigger MU transmission.	Insert "On receiving RTS from HE-STA, AP shall be able to reply with CTS to occupy AP's available 20MHz/40MHz/80MHz/160MHz . Then AP can to RDG to trigger MU transmission."		2017/1/9 9:42
9493	Yanchun Li	225	1 27.5.2.6.2	173	48	T	Y	173.48 27.5.2.6.2	"If the selected RU is considered busy as a result of either physical or virtual carrier sensing, then the HE STA shall not transmit its HE trigger-based PPDU in the randomly selected RU and it randomly selects any one of the RUs that are assigned to AID value 0 in the subsequent Trigger frame." It will cause both the STAs finishing backoff in next trigger and current trigger to contend for random access RUs in next trigger. The over-crowd attempts cause low channel access efficiency.	Change this sentense to: If the selected RU is considered busy as a result of either physical or virtual carrier sensing, then the HE STA shall transmit its HE trigger-based PPDU in the randomly selected idle RU or it backoffs again and randomly selects any one of the RUs that are assigned to AID value 0 in the subsequent Trigger frame.		2017/1/9 9:42
9494	Yanchun Li	225	1 9.3.1.23.5	51	26	T	Y	51.26 9.3.1.23.5	"the Trigger Dependent User Info field is not present" causes degraded trigger based UL random access performance. 11ax is designed to work under high dense environment with large number of STAs which have diverse application demands. When BSRP variant Trigger frame triggers random access BSRs, the BSR from the STA with high priority AC shall not contend with low priority AC BSR. Need to reuse the AC-aware design in Basic Trigger variant.	Trigger Dependent User Info field for BSRP variant reuses Figure 9-52g--Trigger Dependent User Info field for the Basic Trigger variant. B0-B4 bits are discarded and reserved.		2017/1/9 9:42
9495	Yanchun Li	225	1 9.2.4.6.4.3	24	58	T	Y	24.58 9.2.4.6.4.3	Current ROM shall be improved to settle the case with large number of STA in narrow band ROM mode. Current ROM requires all STAs to occupy primary 20MHz and causes low channel utility. Need to allocate some narrow band ROM STA to RU in non-primary portion.	The Channel Width field shall support indication of specific 20MHz channel which STA prefers in this ROM mode.		2017/1/9 9:42

9496	Yanchun Li	225	1 28.3.11.9	327	14	E	Y	327.14 28.3.11.9	A typo in DCM description. Miss some word between 'a' and 'and'.	The suggested words for the missing part are highlighted in quote mark. When DCM is employed, bit sequences are ... in order to exploit frequency diversity for a "RU with subcarrier number smaller or equal to 996" , and "where k is in the range of" 0<=k<=N_{SD}/2-1	2017/1/9 9:42
9497	Yasuhiko Inoue	225	1 3.2	3	40	T	Y	3.40 3.2	Definition of "20 MHz physical layer (PHY) protocol data unit (PPDU)" should not include the clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) PPDU and the clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification) PPDU since they occupy more than 20 MHz.	Remove clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) PPDU and the clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification) PPDU.	2017/1/9 9:42
9498	Yasuhiko Inoue	225	1 3.2	3		G	Y	3.00 3.2	RU should be defined in clause 3.2	As in the comment.	2017/1/9 9:42
9499	Yasuhiko Inoue	225	1 3.2	6		T	Y	6.00 3.2	"non-orthogonal frequency division multiple access (non-OFDMA): A full bandwidth HE transmission with 242-tone RU, 484-tone RU, 996-tone RU, 2¦ 0*996-tone RU, or 2¦ 0*996-tone RU allocated for 20 MHz, 40 MHz, 80 MHz, 160 MHz, or 80+80 MHz transmission, respectively." RU should be defined in this subclause.	As in the comment.	2017/1/9 9:42
9500	Yasuhiko Inoue	225	1 3.4	7	15	E	Y	7.15 3.4	"OMI Operation mode indication" According to 27.8, OMI stands for "Operating mode indication." Please use the consistent term.	Change "Operation mode indication" to "Operating mode indication"	2017/1/9 9:42
9501	Yasuhiko Inoue	225	1 4.3.14a	9	57	T	Y	9.57 4.3.14a	"- Optional support for OFDMA-based random access" OFDMA-based random access should be defined in clause 3.2.	As in the comment.	2017/1/9 9:42
9502	Yasuhiko Inoue	225	1 4.3.14a	9	60	E	N	9.60 4.3.14a	"An HE AP uses the Trigger frame to initiate MU OFDMA or MU-MIMO transmissions in the UL direction." MU OFDMA should be OFDMA.	As in the comment.	2017/1/9 9:42
9503	Yasuhiko Inoue	225	1 9.2.4.6.4.2	23	59	E	Y	23.59 9.2.4.6.4.2	"... and is set to the number of OFDM symbols the Data field of the HE trigger-based PPDU minus 1" This text seems to have grammatical mistake.	For example, "... and is set to the number of OFDM symbols in the Data field of the HE trigger-based PPDU minus 1."	2017/1/9 9:42
9504	Yasuhiko Inoue	225	1 9.2.4.6.4.6	27	19	E	N	27.19 9.2.4.6.4.6	"... power pre-correction (see 26.3.13.2 (Power pre-correction)."	As in the comment.	2017/1/9 9:42
9505	Yasuhiko Inoue	225	1 9.2.4.6.4.7	27	65	E	N	27.65 9.2.4.6.4.7	Wrong reference. It should be "(see 28.3.14.2 (Power pre-correction))." "... to assist DL HE MU transmission (see 25.5.1.3, (Bandwidth query report operation)." Wrong reference. It should be 27.5.1.3 (HE bandwidth query report operation for DL MU)"	As in the comment.	2017/1/9 9:42
9506	Yasuhiko Inoue	225	1 9.3.1.23.1	48	41	G	Y	48.41 9.3.1.23.1	"The MPDU MU Spacing Factor subfield indicates the value by which the minimum MPDU start spacing defined in Table 8-159 is multiplied." Table 8-159 missing.	Refer to the correct table. (Maybe Table 9-25h?)	2017/1/9 9:42
9507	Yasuhiko Inoue	225	1 9.4.2.218.2	79	41	T	Y	79.41 9.4.2.218.2	"Maximum AMPDU Length Exponent" in the Table 9-262z--Subfields of the HE MAC Capabilities Information field: Definition and Encoding for this entry is blank.	Definition and Encoding for this entry should be provided.	2017/1/9 9:42
9508	Yasuhiko Inoue	225	1 9.4.2.218.3	81	40	T	Y	81.40 9.4.2.218.3	SRP-based SR Support: SRP-based SR is not defined.	Define the SRP-based SR in clause 3.2 and provide text in 27.9.	2017/1/9 9:42

9509 Yasuhiko Inoue	225	1 9.4.2.218.3	83	40	T	Y	83.40 9.4.2.218.3	"Doppler" in Table 9-262aa--Subfields of the HE PHY Capabilities Information field: "B20 indicates transmitting STA supports transmitting HE PPDUs with Doppler procedure B21 indicates transmitting STA supports receiving HE PPDUs with Doppler procedure" Doppler procedure is not defined.	Define the Doppler procedure.		2017/1/9 9:42
9510 Yasuhiko Inoue	225	1 9.4.2.219	91	39	T	N	91.39 9.4.2.219	"The BSS Color field is an unsigned integer whose value is the BSS color of the BSS corresponding to the AP which transmitted this element, except that a value of 0 in this field indicates that there is no BSS color for this BSS. The BSS Color field is an unsigned integer whose value is the BSS Color of the BSS corresponding to the AP, IBSS STA, mesh STA or TDLS STA that transmitted this element, except that a value of 0 in this field is used if one or more intended recipient STAs of an HE PPDU is not a member of a transmitting STA's BSS." Similar sentences. These senetnces can be merged.	As in the comment.		2017/1/9 9:42
9511 Yasuhiko Inoue	225	1 9.4.2.220	93	25	E	N	93.25 9.4.2.220	Figure 9-589cl--RAPS element format: Typo: Length	Fix		2017/1/9 9:42
9512 Yasuhiko Inoue	225	1 9.4.2.220	93	46	E	N	93.46 9.4.2.220	Figure 9-589cu--OCW Range field format: "Octets" should be "Bits"	Fix		2017/1/9 9:42
9513 Yasuhiko Inoue	225	1 94.4.2.222	95	43	E	N	95.43 94.4.2.222	"Announce-ment" should be "Announcement"	Fix		2017/1/9 9:42
9514 Yasuhiko Inoue	225	1 9.6.5.1	99	22	T	Y	99.22 9.6.5.1	9.6.5 Block Ack Action frame details 9.6.5.1 General There are new entries in the Table 9-302 (Block Ack Action field value). The formats of the new Block Ack frames should be explained as in the base standard.	Add text for the new Block Ack formats.		2017/1/9 9:42
9515 Yasuhiko Inoue	225	1 10.3.2.8a.3	117	22	T	Y	117.22 10.3.2.8a.3	"The ED-based CCA during the SIFS after receiving an MU-RTS frame and ..." The ED-based CCA should be defined.	As in the comment.		2017/1/9 9:42
9516 Yasuhiko Inoue	225	1 10.12	128	8	E	N	128.08 10.12	"An A-MSDU may be fragmented and each fragment transmitted within a single QoS Data frame, ..." should be modified to "An A-MSDU may be fragmented and each fragment is transmitted within a single QoS Data frame, ..."	As in the comment.		2017/1/9 9:42
9517 Yasuhiko Inoue	225	1 27.1	149	10	T	Y	149.10 27.1	"The use of HCCA and TSPEC are banned at HE STAs." Two thoughts: (1) This sentence is ambiguous. If we ban HCCA, it will be reasonable to disallow TSPEC negotiation for HCCA. However the TSPEC negotiation can be used for admission control for the EDCA which will be beneficial for the schduling purpose at the AP. Therefore, I do not think it will be good to disallow all of the TSPEC negotiation. (2) This sentence is not the introduction of HE MAC. It should be stated somewhere in 27.2.	(1) The sentence should be modified to: "The use of HCCA is banned at HE STAs." (2) Move this sentence somewhere in 27.2.		2017/1/9 9:42

9518	Yasuhiko Inoue	225	1 27.2.1	149	24	E	Y	149.24 27.2.1	"A frame received by the STA is an intra-BSS frame if one of the following conditions is true: - The RXVECTOR parameter BSS_COLOR in the received PPDU carrying the frame is the same as the BSS color announced by the AP to which the STA is associated - The RA field, TA field or BSSID field of the received frame with the Individual/Group bit forced to the value 0 is the same as the BSSID of AP to which the STA is associated ..." The STA here seems to mean the HE non-AP STA while these conditions also seem to be true for the HE AP.	The text should be modified so that it can be applied to the AP as well.		2017/1/9 9:42
9519	Yasuhiko Inoue	225	1 27.2.1	149	38	T	Y	149.38 27.2.1	"The value of RXVECTOR parameter PARTIAL_AID [5:8] in the received VHT PPDU ..." PARTIAL_AID [5:8] is not clear enough.	PARTIAL_AID [5:8] should be rephrased, or define this expression in 1.5 Terminology for mathematical, logical, and bit operations.		2017/1/9 9:42
9520	Yasuhiko Inoue	225	1 27.2.1	150	5	T	Y	150.05 27.2.1	"... is different from the BSSID[39:47] of the AP ..." BSSID[39:47] is not clear enough.	BSSID[39:47] should be rephrased, or define this expression in 1.5 Terminology for mathematical, logical, and bit operations.		2017/1/9 9:42
9521	Yasuhiko Inoue	225	1 27.2.3	152	13	T	Y	152.13 27.2.3	HEMUEDCATimer[AC] not defined.	Define HEMUEDCATimer[AC].		2017/1/9 9:42
9522	Yasuhiko Inoue	225	1 27.3.4.1	155	22	E	N	155.22 27.3.4.1	"Set to 3 if the STA supports reception of dynamic fragments following the procedure defined in 227.3.3.4 (Level 3 dynamic fragmentation)" Wrong reference.	227.3.3.4 should be 27.3.3.4.		2017/1/9 9:42
9523	Yasuhiko Inoue	225	1 27.3.4.2	155	56	T	Y	155.56 27.3.4.2	"Upon reception of an MPDU or S-MPDU that carries one or more dynamic fragments, the recipient STA ..." It is not clear whether an MPDU or S-MPDU can carry more than one dynamic fragments.	Clarify		2017/1/9 9:42
9524	Yasuhiko Inoue	225	1 27.3.4.4	156	62	E	N	156.62 27.3.4.4	"... the sequence numbers are performed module 4096" module should be modulo	As in the comment.		2017/1/9 9:42
9525	Yasuhiko Inoue	225	1 27.4.4.5	162	27	T	Y	162.27 27.4.4.5	broadcast RU should be defined.	As in the comment.		2017/1/9 9:42
9526	Yasuhiko Inoue	225	1 27.5.1.1	162	56	T	Y	162.56 27.5.1.1	There is no field named "DL OFDMA With MIMO Support" in HE Capabilities.	Assign one reserved bit in the HE PHY Capabilities Information field of HE Capabilities element to indicate this capability.		2017/1/9 9:42
9527	Yasuhiko Inoue	225	1 27.5.2.2.2	167	15	T	Y	167.15 27.5.2.2.2	"The AP may assign any value defined in Table 9-25i (Prefered AC subfield encoding) in the AC Preference Level subfield in ..." AC Preference Level subfield should be Preferred AC subfield.	As in the comment.		2017/1/9 9:42
9528	Yasuhiko Inoue	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	"If the STA is not associated with the AP, TBD." TBD should be removed.	Remove the last sentence of this bullet.		2017/1/9 9:42
9529	Yasuhiko Inoue	225	1 27.5.2.3	168	32	T	Y	168.32 27.5.2.3	"The NUMBER_HE_LTF_SYM parameter shall be set to the value ..." There is no such a parameter in TXVECTOR nor RXVECTOR.	Clarify which parameter is referred to.		2017/1/9 9:42
9530	Yasuhiko Inoue	225	1 27.5.2.3	169	7	T	Y	169.07 27.5.2.3	"UL_TARGET_RSSI, DL_TX_POWER, RU_ALLOCATION, and MCS parameters shall be set to ..." Could not find UL_TARGET_RSSI nor DL_TX_POWER in the TXVECTOR parameters in table 28-1.	Clarify which parameters are referred to.		2017/1/9 9:42

9531	Yasuhiko Inoue	225	1 27.5.2.3	169	15	T	Y	169.15 27.5.2.3	"MU_MIMO_LTF_MODE, LDPC_EXTRA, NSTS, STBC, CODING TYPE, SS_ALLOCATION shall all be set to 0." (1) Could not find MU_MIMO_LTF_MODE in Table 28-1. (2) LDPC_EXTRA should be LDPC_EXTRA_SYMBOL (3) NSTS may be NUM_STS (4) CODING TYPE may be FEC_CODING (5) Could not find SS_ALLOCATION in the TXVECTOR and RX VECTOR parameters in Table 28-1.	Use the consistent terms with other part of the draft. And clarify the parameters which are not in the table 28-1.	2017/1/9 9:42
9532	Yasuhiko Inoue	225	1 27.5.2.3	169	25	T	Y	169.25 27.5.2.3	"CP_LTF_TYPE parameter shall be set to ..." There is no such a parameter in TXVECTOR and RXVECTOR in table 28-1.	Clarify which parameter is referred to.	2017/1/9 9:42
9533	Yasuhiko Inoue	225	1 27.5.2.6.2	173	11	T	Y	173.11 27.5.2.6.2	Figure 27-1—Illustration of the UL OFDMA-based random access procedure is ambiguous. (1) IFS except the left side one is not specified. (2) Not clear why the OBO value of a STA changes depending on the height of a Trigger frame. (3) Not clear the timing of decrementing the OBO value.	The figure should be modified to explain the change of the OBO in relation to time.	2017/1/9 9:42
9534	Yasuhiko Inoue	225	1 27.5.2.7	174	21	T	Y	174.21 27.5.2.7	"The NDP feedback report is a mechanism for an HE AP to collect short feedbacks from a very high number of HE STAs, in an efficient manner. The feedbacks (e.g. resource requests) are sent without data payloads in response to a Trigger frame. The feedbacks are not for channel sounding. This mechanism is optional for non-AP STA." It is impossible to implement this feature only with this text.	Add more normative text in this subclause.	2017/1/9 9:42
9535	Yasuhiko Inoue	225	1 27.5.3	175		G	Y	175.00 27.5.3	It is not clear what happens if a transmission error occurs during the cascading sequence.	Detailed specification is needed.	2017/1/9 9:42
9536	Yasuhiko Inoue	225	1 27.6.2	177	19	T	Y	177.19 27.6.2	"... for 80 MHz full bandwidth feedback the RU Start Index and RU End Index is set to 0 and 36, respectively as shown in Table YY-1." The table number should be specified.	As in the comment.	2017/1/9 9:42
9537	Yasuhiko Inoue	225	1 27.9			E	Y	27.9	There is no normative text for SRP based spatial reuse while related information is defined in clause 28.	Add normative text for SRP based spatial reuse.	2017/1/9 9:42
9538	Yasuhiko Inoue	225	1 27.9.1	190	50	E	N	190.50 27.9.1	"SR Backoff procedure for SR delayed case." This text looks like a title of a subclause.	Make appropriate arrangement for this text.	2017/1/9 9:42
9539	Yasuhiko Inoue	225	1 27.9.2.1	190	55	T	Y	190.55 27.9.2.1	"NOTE–The countdown of an existing backoff procedure is suspended until the end of the PPDU carrying the SR delay entry since the medium is busy during the duration of the PPDU carrying the SR delay entry." This implies that there will be backoff counter for spatial reuse transmission. If it is true, it should be defined.	Define the backoff counter for SR transmission.	2017/1/9 9:42
9540	Yasuhiko Inoue	225	1 27.9.2.2	191	7	T	Y	191.07 27.9.2.2	OBSS_PD_{level}, OBSS_PD_{max}, OBSS_PD_{min}, TXPWR_{ref} not defined.	Define them before they apprear.	2017/1/9 9:42
9541	Yasuhiko Inoue	225	1 27.9.2.2	192	7	T	Y	192.07 27.9.2.2	"If a STA chooses a specific OBSS_PD_{level} during its operation under SR mode, ..." SR mode undefined.	Define SR mode.	2017/1/9 9:42

9542	Yasuhiko Inoue	225	1 27.11.6	198	22	G	Y	198.22 27.11.6	It should be stated that the criteria of setting the SPATIAL_REUSE parameter in the TXVECTOR is out of the scope of this standard.	As in the comment.		2017/1/9 9:42
9543	Yasuhiko Inoue	225	1 28.1.1	210	39	E	Y	210.39 28.1.1	"1.6 ++s GI duration on both HE-LTF and data symbols when the HE-LTF is 1x (transmit and receive) for full bandwidth UL MU-MIMO if the STA supports UL MU-MIMO" "1x" should be "1x LTF"	As in the comment.		2017/1/9 9:42
9544	Yasuhiko Inoue	225	1 28.1.1	212	36	E	Y	212.36 28.1.1	... -- MU-MIMO transmit on an RU in an HE trigger-based PPDU where the RU spans the entire PPDU bandwidth (UL MU-MIMO). If it is supported then a total of up to 8 space-time streams are supported -- MU-MIMO transmit on an RU in an HE_TRIG PPDU where the RU does not span the entire PPDU bandwidth (UL MU-MIMO with OFDMA). If it is supported then a total of up to 8 space-time streams are supported ..." Inconsistent expressions: "HE trigger-based PPDU" and "HE_TRIG PPDU"	For the consitency with the other part, HE_TRIG PPDU should be HE trigger-based PPDU.		2017/1/9 9:42
9545	Yasuhiko Inoue	225	1 28.2.2	216	11	T	Y	216.11 28.2.2	TXVECTOR and RXVECTOR parameter N_TX is defined for HE_SU, HE_MU, HE_EXT_SU and HE_TRIG format to indicate the number of transmit chains. However, in the Table 28-1, it is set to "N" (not present) for both TXVECTOR and RXVECTOR.	It should be Y for TXVECTOR.		2017/1/9 9:42
9546	Yasuhiko Inoue	225	1 28.2.2	216	47	T	Y	216.47 28.2.2	CHAN_MAT_TYPE for HE_SU, HE_MU, HE_EXT_SU, or HE_TRIG formats are defined to be "COMPRESSED_SV" in the first low while CHAN_MAT_TYPE for HE_MU, HE_EXT_SU, HE_TRIG or HE_SU and PSDU_LENGTH is greater than 0 is defined to be "Not present" in the second low. Not sure how to set this parameter in HE_MU, HE_EXT_SU and HE_TRIG formats.	Double check the conditions on the format.		2017/1/9 9:42
9547	Yasuhiko Inoue	225	1 28.3.4	241	53	E	Y	241.53 28.3.4	"The fields of the HE PPDU formats are summarized in Figure 28-8 (HE PPDU fields)." Figure 28-8 should be Table 28-8.	As in the comment.		2017/1/9 9:42
9548	Yasuhiko Inoue	225	1 28.3.4	242	27	T	Y	242.27 28.3.4	"The L-STF, L-LTF, L-SIG, RL-SIG, HE-SIG-A, HE-SIG-A-R, and HE-SIG-B fields are ..." HE-SIG-A-R not defined.	It should be described that the HE-SIG-A-R is repeated HE-SIG-A.		2017/1/9 9:42
9549	Yasuhiko Inoue	225	1 28.3.5	249	6	T	Y	249.06 28.3.5	The Figure 28-17--Transmitter block diagram for the Data field of an HE SU PPDU in 80+80 MHz with LDPC encoding needs to be fixed.	Will come up with a proposed change.		2017/1/9 9:42
9550	Yasuhiko Inoue	225	1 28.3.8	259	34	T	Y	259.34 28.3.8	Table 28-12, Explanation of N_{CBPS}, N{CBPS, u} N_{user, total} not deifned.	Define N_{user, total}.		2017/1/9 9:42
9551	Yasuhiko Inoue	225	1 28.3.10.7.2	275	8	T	Y	275.08 28.3.10.7.2	Table 28-16 B8 of HE-SIG-A2 (HE SU PPDU) or HE-SIG-A3 (HE extended range SU PPDU): "Indicates the presence of the extra OFDM symbol for LDPC. Set to 1 if an extra OFDM symbol for LDPC is present Set to 0 if an extra OFDM symbol for LDPC is present ..." Value 1 or 0 should indicate that an extra OFDM symbol for LDPC is not present.	As in the comment.		2017/1/9 9:42

9552	Yasuhiko Inoue	225	1 28.3.10.7.2	275	33	T	Y	275.33 28.3.10.7.2	Table 28-16 B15 of HE-SIG-A2 (HE SU PPDU) or HE-SIG-A3 (HE extended range SU PPDU): "Set to 0 if Doppler mode is not used Set to 1 if Doppler mode is used" Doppler mode is not defined in the draft.	Doppler mode should be defined, or make this bit reserved.		2017/1/9 9:42
9553	Yasuhiko Inoue	225	1 28.3.10.7.2	277	35	T	Y	277.35 28.3.10.7.2	Table 28-17, B25 of HE-SIG-A1 (Doppler): "Set to 0 if Doppler mode is not used Set to 1 if Doppler mode is used" Doppler mode is not defined in the draft.	Doppler mode should be defined, or make this bit reserved.		2017/1/9 9:42
9554	Yasuhiko Inoue	225	1 28.3.10.8.4	292	41	T	Y	292.41 28.3.10.8.4	Table 28-21, Number of entries for 011111x1x0 The value 8 should be 4.	As in the comment.		2017/1/9 9:42
9555	Yasuhiko Inoue	225	1 28.3.12	339	1	E	N	339.01 28.3.12	Editor's Note: The HE-SIG-A bits definition below should be moved into 28.3.10.7 (HE-SIG-A) Resolve the editor's note.	As in the comment.		2017/1/9 9:42
9556	Yasuhiko Inoue	225	1 B.4.27	410	34	G	N	410.34 B.4.27	B.4.27 High Efficiency WLAN (HEW) features HEW should be HE since we have agreed to use High Efficiency (HE) for this amendment.	Replace HEW with HE in this subclause.		2017/1/9 9:42
9557	Yonggang Fang	225	1 10.3.2.8a.2	116	64	T	Y	116.64 10.3.2.8a.2	When a HE STA does not receive the simultaneous CTS response to the MU-RTS, it indicates the radio condition of MU-RTS receiving STAs does not allow those STAs to send CTS responses. Therefore the transmitting STA of MU-RTS may perform re-transmission of MU-RTS later or start a new transmisson to other STAs after backoff procedure.	change to "... and this STA shall invoke its backoff procedure upon expiration of the CTSTimeout interval to re-transmit the MU-RTS or start new transmissions to other STAs."		2017/1/9 9:42
9558	Yonggang Fang	225	1 10.3.2.8a.3	118	8	E	Y	118.08 10.3.2.8a.3	As a MU-RTS is sent in duplicated PPDU over 40MHz channel, it may be clearer to show in separate frames of MU-RTS, each of them occupies 20MHz in the Figure 10-9c. Similar to CTS frame over 40MHz channel.	see the comment.		2017/1/9 9:42
9559	Yonggang Fang	225	1 10.7.	123		T	Y	123.00 10.7.	As 11ax introduces new HE-MCS, it would be necessary to update the MCS rate set for management frame including HE beacon frame.	update the corresponding text of management frame with HE-MCS		2017/1/9 9:42
9560	Yonggang Fang	225	1 11.1.3.10	141	32	E	Y	141.32 11.1.3.10	Add the following sentence in the beginning: As the OFDMA may improve the UL transmission coverage significantly, an	as in the comment		2017/1/9 9:42
9561	Yonggang Fang	225	1 11.1.3.10	141	44	T	Y	141.44 11.1.3.10	Using a half value of Beacon Interval of legacy beacon frames as offset of HE beacon may not be flexisible in deployment. Suggest to add HE Beacon Offset in the HE Operation element, or remove this restriction.	as in the comment		2017/1/9 9:42
9562	Yonggang Fang	225	1 9.4.2.219	91		T	Y	91.00 9.4.2.219	In order to improve the deployment flexibility, it may require to independently control legacy beacon and HE beacon transmission. Increase the size Dual Beacon field to 2 bits	as in the comment		2017/1/9 9:42
9563	Yonggang Fang	225	1 9.4.2.219	92	30	T	Y	92.30 9.4.2.219	Modify the definition of Dual Beacon field.	00: Legacy Beacon only, 01: HE beacon only, 10: L+HE beacon with duplicated system info. 11: L+HE with non-duplicated system info		2017/1/9 9:42
9564	Yonggang Fang	225	1 11.2.2.6	142	30	T	Y	142.30 11.2.2.6	When a HE AP sets the More Data subfield to 1 in Multi-STA BA to indicate the pending buffered data for a STA identified by RA, it would cause other STAs to be awake and increase power consumption of STAs, as RA in Multi-STA BA is a broadcast address.			2017/1/9 9:42

9565	Yonggang Fang	225	1 27.4.1	157	37	E	Y	157.37 27.4.1	The "An HE STA" here mentions "An HE AP STA" as it responds to the trigger-based PPDU. Suggest to clarify this.	Suggest to change "An HE STA ..." to "An HE AP STA ...."		2017/1/9 9:42
9566	Yonggang Fang	225	1 27.4.4.5	162	6	E	Y	162.06 27.4.4.5	10.3.2.11.4 is not in the specification	Map the reference to the corresponding section.		2017/1/9 9:42
9567	Yonggang Fang	225	1 27.4.4.5	162	1	T	Y	162.01 27.4.4.5	A non-AP STA that sends a trigger-based PPDU as a UL MU transmission should not select the acknowledgement rule independently. For example, one STA intends to be acknowledged immediately, while another wants to be deferred acknowledgement. This will increase the implementation complexity of HE AP. Suggest the non-AP STAs that send a trigger-based PPDU use the same acknowledgement rule.	define a new rule of acknowledgement to the entire trigger based PPDUs.		2017/1/9 9:42
9568	Yonggang Fang	225	1 27.5.1.3	163	16	E	Y	163.16 27.5.1.3	The HE Bandwidth Query Report message is used to report the channel availability of HE STA. Suggest to change the name of BQR to "Channel Availability Report" (CAR) as it is more clear for the intention.	suggest to change "BQR" to "Channel Availability Report".		2017/1/9 9:42
9569	Yonggang Fang	225	1 27.5.2.2.3	167	26	E	Y	167.26 27.5.2.2.3	9.22.2.7 is not in the spec	Map the reference to the corresponding section.		2017/1/9 9:42
9570	Yonggang Fang	225	1 27.5.2.2.3	167	30	E	Y	167.30 27.5.2.2.3	9.22.2.2 is not in the spec	Map the reference to the corresponding section.		2017/1/9 9:42
9571	Yonggang Fang	225	1 27.5.2.6.1	172	45	T	Y	172.45 27.5.2.6.1	If HE STA can use OFDMA based random access for any AC traffic, it may create fairness concern on the higher priority AC.	suggest random access transmission is separated according to the Access Category		2017/1/9 9:42
9572	Yonggang Fang	225	1 27.5.2.6.3	174	15	T	Y	174.15 27.5.2.6.3	A HE STA may use OFDMA RA for UL transmission. However, if the OFDMA RA transmission fails, it has to double its CW for backoff. Comparing to the legacy access, the STA may allow to repeat the transmission for a couple of time in PIFS if it does not receive ACK. Therefore the OFDMA based RA may cause extra latency of UL transmission.	define a mechanism to allow HE STAs to distinguish reasons of OFDMA RA failure.		2017/1/9 9:42
9573	Yonggang Fang	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	It is not clear how to trigger the NDP feedback report as there is no trigger variant for triggering this NDP type of feedback frame.	Need to clarify this or define a new trigger variant for the NDP type of feedback.		2017/1/9 9:42
9574	Yonggang Fang	225	1 27.7.2	181	1	T	Y	181.01 27.7.2	If a TWT STA is not required to listen to beacon frame, it may need a mechanism to update the BSS information when AP udpates BSS info in the beacon frames.	define a rule or mechanism for TWT stations to synchronize the BSS information change when AP updates the BSS information in beacon frame.		2017/1/9 9:42
9575	Yonggang Fang	225	1 27.2.2	181	12	T	Y	181.12 27.2.2	Assume the TWT requesting STA is an HE non-AP STA. Why the TWT requesting STA should not initiate transmission of frames to TWT responding STA outside of negotiated TWT SP? When an HE STA has a pending data for AP, it should be able to send at any time after sensing the channel is clear.	Suggest to the remove this sentence		2017/1/9 9:42
9576	Yonggang Fang	225	1 27.7.3.2	183	57	E	Y	183.57 27.7.3.2	"The TWT scheduled STA may include a TWT element ...." is to describe the behavior of TWT scheduled STA. It should not be in the "Rule for TWT scheduling STA section.	Move this sentence to 27.7.3.3		2017/1/9 9:42

9577	Yonggang Fang	225	1 27.7.3.4	186	48	T	Y	186.48 27.7.3.4	The TWT responding STA may not agree the TWT/TBTT proposal from the TWT requesting STAs. Therefore it needs a way for the TWT responding STA (AP) to provide the recommended TWT/TBTT values in the TWT response frame. We may use the similar mechanism defined in 11ah for HE TWT/TBTT negotiation.	Suggest to add the following in the section: A TWT scheduling STA that receives a TWT request frame from a HE STA whose value of the TWT/TBTT Negotiation subfield is 1 may send a TWT response frame that contains the TWT Command of Alternate TWT or TWT Grouping. If the TWT Command field of TWT scheduling STA's response contains Alternate TWT or TWT Grouping, the TWT requesting STA may send a new TWT request frame for negotiation with a new proposal of TWT/TBTT parameters.		2017/1/9 9:42
9578	Yonggang Fang	225	1 27.14.2	199	60	T	Y	199.60 27.14.2	An HE AP can schedule a TWT SP for TWT scheduled STA and TWT for random access. It is not clear whether the TWT STA should wake up at both scheduled TWT SP and TWT RA period?	Need to clarify in the spec		2017/1/9 9:42
9579	Yonggang Fang	225	1 27.16	204		T	Y	204.00 27.16	In the HE BSS operation, it needs to consider the HE AP change the TBTT when deployed in the dense environment.	describe the rule for change of TBTT operation in the existing section or a new section.		2017/1/9 9:42
9580	Yonggang Fang	225	1 28.1.1	211	5	E	Y	211.05 28.1.1	This clause is to address STA capable of receiving ...; not transmitting.	change "transmitting" to receiving.		2017/1/9 9:42
9581	Yonggang Fang	225	1 27.5.2.6.2	173	45	T	Y	173.45 27.5.2.6.2	The HE STA may sense multiple carriers in the same time depending on implementation. Therefore HE STA may randomly select an "idle" RU from assigned RUs by trigger frame for random access to avoid the sensing after selection. The spec should allow this flexibility in the implementation.	For an HE STA, if the OBO counter is 0 or if the OBO counter decrements to 0, then the STA randomly selects one of the RUs assigned to AID value 0. The HE STA may randomly select one "idle" RU from RUs assigned to AID value 0 and from the result of physical and virtual CS.		2017/1/9 9:42
9582	Yongho Kim	225	1 9.4.2.218.2	77	40	E	N	77.40 9.4.2.218.2	S-MPDU is not defined in 11ax_D1.0 and MC document.	Define the term		2017/1/9 9:42
9583	Yongho Kim	225	1 9.4.2.220	93	46	E	N	93.46 9.4.2.220	Octets' shall be replaced by 'Bits'.	As in comment.		2017/1/9 9:42
9584	Yongho Kim	225	1 10.3.2.4	115	13	T	Y	115.13 10.3.2.4	NAV reset procedure needs to be described if the NAV is set by Trigger frame	As in comment.		2017/1/9 9:42
9585	Yongho Kim	225	1 27.2.1	149	47	T	Y	149.47 27.2.1	A CTS frame transmited by an associated AP would be considered as a inter-BSS frame.	If an RTS sender STA is an HE STA, RA field of CTS frame shall be set to AP's MAC address.		2017/1/9 9:42
9586	Yongho Kim	225	1 27.2.3	152	19	T	Y	152.19 27.2.3	For some applications using 802.11ax, some value of HEMUEDCATimer in EDCA Parameter Set element need to provide some special feature.	Define it.		2017/1/9 9:42
9587	Yongho Kim	225	1 27.5.1.3	163	26	T	Y	163.26 27.5.1.3	If a non-AP STA has no capabilities on some channels, what value need to be set? And, If a non-AP STA's channel bandwidth is regulated by OMI procedure, what value need to be set?	Define it.		2017/1/9 9:42
9588	Yongho Kim	225	1 27.5.2.2.1	164	64	T	Y	164.64 27.5.2.2.1	Not only Trigger frame, but also Trigger A-contol shall follow same rule.	As in comment.		2017/1/9 9:42
9589	Yongho Kim	225	1 27.5.2.2.2	165	64	T	N	165.64 27.5.2.2.2	GCR-MU-BAR also need to be included.	Instead of using 'MU-BAR', use '(GCR)MU-BAR)'.		2017/1/9 9:42
9590	Yongho Kim	225	1 27.5.2.2.2	167	16	T	Y	167.16 27.5.2.2.2	There are no specific information and instruction about using preferred AC.	Define it.		2017/1/9 9:42
9591	Yongho Kim	225	1 27.5.2.3	167	52	T	N	167.52 27.5.2.3	OFDMA random access (AID 0) case is not included.	Describe it.		2017/1/9 9:42
9592	Yongho Kim	225	1 27.8	188	18	T	N	188.18 27.8	Could an HE AP STA be an OMI initiator? If it is not possible, add 'non-AP'.	As in comment.		2017/1/9 9:42
9593	Yongho Kim	225	1 27.16.3	208	27	T	Y	208.27 27.16.3	Specific method of setting QTP by QTP setup frame is not described. Specific procedure for STAs received QTP setup frame need to be described.	Define it.		2017/1/9 9:42
9594	Yongho Seok	225	1 G.5	427	34	T	Y	427.34 G.5	"dl-mu-sequence | ul-mu-sequence | cascading-mu-sequence" An dl-mu-sequence, ul-mu-sequence and cascading-mu-sequence are not defined.	An dl-mu-sequence, ul-mu-sequence and cascading-mu-sequence have to be defined in Annex G.5.		2017/1/9 9:42
9595	Yongho Seok	225	1 G.5	427	29	T	Y	427.29 G.5	The usage case of the He-mu-sequence is not inclued in the basic sequence.	Include the He-mu-sequence to the basic sequence.		2017/1/9 9:42

9596	Yongho Seok	225	1 G.5	427	38	T	Y	427.38 G.5	"(Trigger)	(Trigger +a-mpdu + mu-user-respond + a-mpdu-end) 1[Data[+HTC]+QoS+(no-ack | block-ack)+a-mpdu) + a-mpdu-end; [+mu-user-respond other-users]." Syntax of the above formula is not correct.	Fix any syntax error in Annex G.	2017/1/9 9:42
9597	Yongho Seok	225	1 B.4.3	407	35	T	Y	407.35 B.4.3	For CFVHT (Very High Throughput (VHT) Features) item, the STATUS column shall include "CFHEW80:M". Because an HE STA supporting the HEW Operation with capability of 80 MHz or higher channel width shall implement the VHT Features.	As per comment.	2017/1/9 9:42
9598	Yongho Seok	225	1 B.4.3	407	28	T	Y	407.28 B.4.3	The CFHEW item is not defined. Between CFHEW and CFHE, which one is correct term? Please use the defined terminology.	As per comment.	2017/1/9 9:42
9599	Yongho Seok	225	1 10.3.2.3.7	114	27	T	Y	114.27 10.3.2.3.7	"Reception of an error-free frame during the EIFS or EIFS-DIFS+AIFS[AC] resynchronizes the STA to the actual busy/idle state of the medium, so the EIFS or EIFS-DIFS+AIFS[AC] is terminated..." On the above EIFS termination, a receptation of an HE PPDU containing a valid TXOP_DURATION parameter shall be also included.	As per comment.	2017/1/9 9:42
9600	Yongho Seok	225	1 10.22.2.7	132	51	T	Y	132.51 10.22.2.7	"If there is no non-HT duplicate frame exchange in a TXOP, the TXOP holder shall set the TXVECTOR parameter CH_BANDWIDTH of a non-initial PPDU to be the same or narrower than the TXVECTOR parameter CH_BANDWIDTH of the preceding PPDU that it has transmitted in the same TXOP." When an HE AP transmits an HE DL MU PPDU with preamble puncture, the TXVECTOR parameter CH_BANDWIDTH selection rule should be seperately defined. Because the above current rule does not cover it.	As per comment.	2017/1/9 9:42
9601	Yongho Seok	225	1 27.9.2.1	190	19	T	Y	190.19 27.9.2.1	"If the PHY of a STA issues a PHY-CCA.indication with a value equal to BUSY followed by an RXSTART.indication due to a PPDU reception then the STA's MAC sublayer may a) issue a PHYCCARESET.request primitive and b) not update its NAV timers based on frames carried in the PPDU if all the following conditions are met:" If the STA newly receives an inter-BSS PPDU while decoding an intra-BSS PPDU (for example, as a capture effect), the OBSS_PD-based spatial reuse operation shall not be allowed.	At the first paragraph of 27.9.2.1, replace "If the PHY of a STA issues a PHY-CCA.indication with a value equal to BUSY followed by an RXSTART.indication due to a PPDU reception" with "If a PHY-CCA.indication transition from IDLE to BUSY occures followed by an RXSTART.indication due to a PPDU reception..."	2017/1/9 9:42
9602	Yongho Seok	225	1 27.14.1	199	28	T	Y	199.28 27.14.1	When the RXVECTOR parameter BSS_COLOR is not the BSS color of the BSS with which the STA is associated and the RXVECTOR parameters SPATIAL_REUSE is SR_Delay Entry, An HE non-AP STA that is in intra-PPDU power save mode can be enter the doze state.	Insert the following condition: "The RXVECTOR parameter BSS_COLOR is not the BSS color of the BSS with which the STA is associated and the RXVECTOR parameters SPATIAL_REUSE is SR_Delay Entry."	2017/1/9 9:42
9603	Yongho Seok	225	1 27.9.2.2	192	20	T	Y	192.20 27.9.2.2	When an HE trigger-based PPDU is triggered by a Trigger frame having the CS Required subfield set to 0, an SR STA is not required to follow the SR_maximum_transmit_power rule.	Change the following sentence "...for the transmissions of any PPDU (including UL TB PPDU)..." to "...for the transmissions of any PPDU (except when an HE trigger-based PPDU triggered by a Trigger frame having the CS Required subfield set to 0)..."	2017/1/9 9:42

9604	Yongho Seok	225	1 27.6.4	179	15	T	Y	179.15 27.6.4	The TXVECTOR parameter TXOP_DURATION of an HE NDP should be described as well.	As per comment.	2017/1/9 9:42
9605	Yongho Seok	225	1 10.7.9	124	25	T	Y	124.25 10.7.9	On Table 10-6 (Modulation classes), Clause 28 (High Efficiency (HE) PHY specification) can select DSSS, HR/DSSS and ERP-OFDM, like Clause 19 (High Throughput (HT) PHY specification) PHY.	As per comment.	2017/1/9 9:42
9606	Yongho Seok	225	1 10.7.10	126	10	T	Y	126.10 10.7.10	On Table 10-7 (Non-HT reference rate), when the DCM is used, the non-HT reference rate shall be reduced to a half. For example, if the modulation is QPSK and the coding rate is 1/2 and the DCM is not used, the non-HT reference rate is 12 Mb/s. But, if the modulation is QPSK and the coding rate is 1/2 and the DCM is used, the non-HT reference rate is 6 Mb/s.	On Table 10-7, insert the exceptation cases for the non-HT reference rate when the DCM is used.	2017/1/9 9:42
9607	Yongho Seok	225	1 27.11.6	198	29	T	Y	198.29 27.11.6	If a Trigger frame having the CS Required subfield set to 0 is carried in an HE SU PPDU, the TXVECTOR parameter SPATIAL_REUSE of the HE SU PPDU should not be SR_Delay entry.	Change the second paragraphs 27.11.6 as the following: "...set the TXVECTOR parameter SPATIAL_REUSE to SR_Delay entry only if a Trigger frame having the CS Required subfield set to 1 is carried in the HE SU PPDU...".	2017/1/9 9:42
9608	Yongho Seok	225	1 27.11.6	198	33	T	Y	198.33 27.11.6	If a Trigger frame having the CS Required subfield set to 0 is carried in an HE MU PPDU, the TXVECTOR parameter SPATIAL_REUSE of the HE SU PPDU should not be SR_Restricted.	Change the second paragraphs 27.11.6 as the following: "...set the TXVECTOR parameter SPATIAL_REUSE to SR_Restricted entry only if a Trigger frame having the CS Required subfield set to 1 is carried in the HE MU PPDU...".	2017/1/9 9:42
9609	Yongho Seok	225	1 28.3.20	369	46	T	Y	369.46 28.3.20	"The PHY entity shall maintain PHY-CCA.indication(BUSY, channellist) primitive for the predicted duration of the transmitted PPDU, as defined by RXTIME in Equation (28-128), for all supported modes, unsupported modes, Reserved HE-SIG-A Indication, and invalid HE-SIG-A CRC." The RXTIME in Equation (28-128) does work only if an STA can know the RXVECTOR parameter (such as GI_TYPE and HE_LTF_TYPE) from the HE-SIG fields. But, the HE-SIG fields in the HE trigger-based PPDU do not have the RXVECTOR parameter required for calcuating the RXTIME in Equation (28-128). In such case, the RXTIME should be based on the L-SIG (i.e., Equation (21-106)). Please insert this exceptation case.	As per comment.	2017/1/9 9:42

9610	Yongho Seok	225	1 28.3.20	369	46	T	Y	369.46 28.3.20	"The PHY entity shall maintain PHY-CCA.indication(BUSY, channellist) primitive for the predicted duration of the transmitted PPDU, as defined by RXTIME in Equation (28-128), for all supported modes, unsupported modes, Reserved HE-SIG-A Indication, and invalid HE-SIG-A CRC." The RXTIME in Equation (28-128) does work only if an STA can know the RXVECTOR parameter (such as GI_TYPE and HE_LTF_TYPE) from the HE-SIG fields. In the case of the HE-SIG-A error (e.g., CRC failure), the RXTIME should be based on the L-SIG of the received HE SU PPDU (i.e., Equation (21-106)). Please insert this exceptation case.	As per comment.		2017/1/9 9:42
9611	Yongho Seok	225	1 9.7.3	107	56	T	Y	107.56 9.7.3	The TXVECTOR parameter TXOP_DURATION of an HE trigger-based PPDU is based on the Duration/ID field in the MAC header. If the Duration/ID fields of one or more HE trigger-based PPDUs addressed to same AP are not identical, the TXVECTOR parameter TXOP_DURATIONs of those HE trigger-based PPDUs can be different. In such case, 3rd party HE STA can't obtain the TXOP_DURATION value from the HE-SIG-A of the received HE trigger-based PPDU. Please clearly specify how the Duration/ID field in the MAC header of an HE trigger-based PPDU is calculated.	As per comment.		2017/1/9 9:42
9612	Yongho Seok	225	1 10.22.2.2	129	62	T	Y	129.62 10.22.2.2	"For an HE STA, if CW[AC] is greater than CWmax[AC], CW[AC] shall be set to CWmax[AC]." If the above sentence is necessary, in the same logic, the following is also necessary. "For an HE STA, if CW[AC] is less than CWmin [AC], CW[AC] shall be set to CWmin[AC]." The above condtion can be happened when a new EDCA parameter set is updated.	Insert the following at the end of the 10.22.2.2. "For an HE STA, if CW[AC] is less than CWmin [AC], CW[AC] shall be set to CWmin[AC]." Or, remove the following for a consistency. "For an HE STA, if CW[AC] is greater than CWmax[AC], CW[AC] shall be set to CWmax[AC]."		2017/1/9 9:42
9613	Yongho Seok	225	1 4.3.14a	9	42	T	Y	9.42 4.3.14a	Remove the following: "Optional support for 1024-QAM on 242-, 484- and 996-tone RUs" Because it is a redundant sentence with the following: "Optional support for HE-MCSs 10 and 11"	Remove the following sentence, "Optional support for 1024-QAM on 242-, 484- and 996-tone RUs"		2017/1/9 9:42
9614	Yongho Seok	225	1 4.3.14a	9	53	T	Y	9.53 4.3.14a	What does the dynamic fragmentation level 0 mean? I can't find any description about the dynamic fragmentation level 0.	Please clarify the dynamic fragmentation level 0.		2017/1/9 9:42
9615	Yongho Seok	225	1 4.3.14a	9	55	T	Y	9.55 4.3.14a	From Annex B, Transmission of Multi-STA BlockAck is a mandatory feature on HE AP side. Reception of Multi-STA BlockAck is a mandatory feature on HE non-AP side. Please change it as the following: Mandatory support for Multi-STA BlockAck	As per comment.		2017/1/9 9:42
9616	Yongho Seok	225	1 4.3.14a	9	48	T	Y	9.48 4.3.14a	The other important HE MAC features are not included. For example, two NAV operation, Spatial reuse operation, Operating mode indication mechanism.	Please include other important HE MAC features.		2017/1/9 9:42
9617	Yongho Seok	225	1 27.16.3.2	207	18	T	Y	207.18 27.16.3.2	The following MLME primitives are not defined in 6.3 MLME SAP interface. - MLME-QTP.request - MLME-QTP.indication - MLME-QTP.response - MLME-QTP.confirm	Define MLME-QTP.request, MLME-QTP.indication, MLME-QTP.response and MLME-QTP.confirm in 6.3 MLME SAP interface.		2017/1/9 9:42

9618 Yongho Seok	225	1 9.2.4.1.8	19	40	T	Y	19.40 9.2.4.1.8	"An HE AP indicates that it can set the More Data subfield to 1 by setting the More Data Ack subfield to 1 in the QoS Info field of frames it transmits." This is a procedure of an HE non-AP STA. Change "HE AP" to HE non-AP STA".	As per comment.	2017/1/9 9:42
9619 Yongho Seok	225	1 9.2.4.6.4.4	25	28	T	Y	25.28 9.2.4.6.4.4	The HE-MCS defined in 28.5 varies depending on DCM. The HE link adaptation mechanism should also include a recommendation of the DCM.	As per comment.	2017/1/9 9:42
9620 Yongho Seok	225	1 9.2.4.6.4.5	26	47	T	Y	26.47 9.2.4.6.4.5	"The ACI High subfield indicates the ACI of the AC for which the BSR is indicated in the Queue Size High subfield." Current description of the ACI High subfield does not represent the AC having the highest amount of buffered traffic. Since current name of the subfield can miscommunicate, change the subfield name to "Reported ACI subfield". Otherwise justify the meaning of High in the subfield name.	change the subfield name from "ACI High subfield" to "Reported ACI subfield".	2017/1/9 9:42
9621 Yongho Seok	225	1 9.2.4.6.4.5	26	60	T	Y	26.60 9.2.4.6.4.5	"The Queue Size High subfield indicates the amount of buffered traffic, in units of SF octets, for the AC identified by the ACI High subfield." Current description of the Queue Size High subfield does not represent the AC having the highest amount of buffered traffic. Since current name of the subfield can miscommunicate, change the subfield name to "Reported Queue Size subfield". Otherwise justify the meaning of High in the subfield name.	Change the subfield name from "Queue Size High subfield" to "Reported Queue Size subfield".	2017/1/9 9:42
9622 Yongho Seok	225	1 9.3.1.9.1	34	25	T	Y	34.25 9.3.1.9.1	"The RA field of the BlockAck frame that is not a Multi-STA BlockAck variant is set to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged." Because a management frame does not any block ack agreement, the BlockAck frame can't be used for an acknowledgment of a management frame. Remove "management frame".	As per comment.	2017/1/9 9:42
9623 Yongho Seok	225	1 9.3.1.9.1	34	27	T	N	34.27 9.3.1.9.1	"An HE AP that transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields sets..." For more clarification, change it as the following: "An HE AP that transmits a Multi-STA BlockAck frame with a single Per STA Info subfield or..."	As per comment.	2017/1/9 9:42

9624	Yongho Seok	225	1 9.3.1.9.1	34	31	T	Y	34.31 9.3.1.9.1	"An HE non-AP STA transmits a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields and sets the RA field to the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged." For more clarification, change it as the following: "An HE non-AP STA that transmits a Multi-STA BlockAck frame with a single Per STA Info subfield or with the same values of the AID subfield in Per STA Info subfields sets the RA field to either the TA field of the soliciting frame or the address of the recipient STA whose data/management frames are acknowledged."	As per comment.	2017/1/9 9:42
9625	Yongho Seok	225	1 9.3.1.9.7	37	23	T	Y	37.23 9.3.1.9.7	"The format defined below is used for multi-STA multi-TID, and multi-STA single TID BlockAck variant." It is conflicted with the following Note. "NOTE--One or more Per STA Info subfields with same value of the AID subfield and different values of the TID subfields can be present in the Multi-STA BlockAck frame." The Multi-STA BlockAck format can be used for single STA multi-TID as well.	Change it as the following: "The format defined below is used for single STA multi-TID, multi-STA multi-TID, and multi-STA single TID BlockAck variant."	2017/1/9 9:42
9626	Yongho Seok	225	1 9.3.1.9.7	37	59	T	Y	37.59 9.3.1.9.7	"When Multi-STA BlockAck variant is intended for a non-AP STA,..." The case when Multi-STA BlockAck variant is intended for multiple non-AP STAs is missing.	Change it as the following: "When Multi-STA BlockAck variant is intended for one or more non-AP STA(s),..."	2017/1/9 9:42
9627	Yongho Seok	225	1 9.3.1.20	40	53	T	Y	40.53 9.3.1.20	Please describe how to encode the RU Start Index and RU End Index subfields.	As per comment.	2017/1/9 9:42
9628	Yongho Seok	225	1 9.3.1.20	41	28	T	Y	41.28 9.3.1.20	The Disambiguation subfield is not a variable because it is always to set to 1. Please change B27 of STA Info subfield to Reserved subfield as the following. "The B27 of the STA Info subfield is reserved and is set to 1."	As per comment.	2017/1/9 9:42
9629	Yongho Seok	225	1 9.3.1.23	43	51	T	Y	43.51 9.3.1.23	"The AP shall set the MU-MIMO LTF Mode subfield to..." Remove "shall" from clause 9 according 802.11 Editorial Style Guide.	As per comment.	2017/1/9 9:42
9630	Yongho Seok	225	1 9.3.1.23	45	37	T	Y	45.37 9.3.1.23	"User Info fields with AID = 0 shall be allocated only after User Info fields with AID not equals to 0, if any, and before the MAC padding field, if present." Remove "shall" from clause 9 according 802.11 Editorial Style Guide.	As per comment.	2017/1/9 9:42
9631	Yongho Seok	225	1 9.3.1.23	46	23	T	Y	46.23 9.3.1.23	Add the following into the last row of Table 9-25f. 1000101 - 1111111 | Reserved | 59	As per comment.	2017/1/9 9:42
9632	Yongho Seok	225	1 9.3.1.23	47	3	T	Y	47.03 9.3.1.23	"A value of 1 indicates that the HE trigger-based PPDU response shall use DCM as defined in 28.3.11.15 (Dual carrier modulation)." Remove "shall" from clause 9 according 802.11 Editorial Style Guide.	As per comment.	2017/1/9 9:42
9633	Yongho Seok	225	1 9.3.1.23	47	20	T	Y	47.20 9.3.1.23	On Figure 9-52f, the encoding mechanism of the Starting Spatial Stream and the Number Of Spatial Streams is missing.	As per comment.	2017/1/9 9:42

9634	Yongho Seok	225	1 9.3.1.23	47	47	T	Y	47.47 9.3.1.23	"Padding field starts with special STAID[11:0] as 0xFFF and the rest bits of the Padding field are all set to one. 0xFFF is reserved as the special value to indicate the start of the MAC padding." Because the Padding field are all set to one, special STAID[11:0] as 0xFFF does not have any meaning. Remove an unnecessary wording and just say the following:"The Padding field are all set to one."	As per comment.		2017/1/9 9:42
9635	Yongho Seok	225	1 9.3.1.23	48	4	T	Y	48.04 9.3.1.23	What is a NDBPS,SHORT in Equation (9-axZ)?	Define NDBPS,SHORT.		2017/1/9 9:42
9636	Yongho Seok	225	1 27.2.2	150	30	T	Y	150.30 27.2.2	"...if one of the two NAV timers is nonzero, the virtual CS indication is that the medium is busy." Exceptaionally, when the TXOP responder transmits a response frame (for example, HE trigger-based PPDU transmission in a response of trigger frame, CTS frame transmission in a response of RTS frame), the virtual CS indication is that the medium is busy only if the basic NAV is busy, regardless of the intra-BSS NAV.	Change it as the following: "...if one of the two NAV timers is nonzero, the virtual CS indication is that the medium is busy except for a TXOP responder. In such case, the TXOP responder considers only the basic NAV for determining the virtual CS indication."		2017/1/9 9:42
9637	Yongho Seok	225	1 27.5.2.4	170	61	T	Y	170.61 27.5.2.4	"The AP shall set the CS Required subfield to 1 except when all solicited HE trigger-based PPDUs contain an Ack or BlockAck frame and the Length subfield in the Common Info field of the Trigger frame is less than or equal to 418." When AP transmits a Trigger frame with the CS Required subfield set to 0 and QoS DATA frame with the Ack Policy subfield set to MU ACK within a same PPDU, if a target STA receives only the Trigger frame, what is happened? Probably, the target STA can transmit a QoS Null frame without having any Ack or BlockAck frame in an HE trigger-based PPDU. So, current spec text is nonsense. Because AP transmitting a Trigger frame with the CS Required subfield set to 0 can't predicts that all solicited HE trigger-based PPDUs contain an Ack or BlockAck frame.	Change it as the following: "The AP shall set the CS Required subfield to 1 except when it solicits an Ack or BlockAck frame in all scheduled HE trigger-based PPDUs and the Length subfield in the Common Info field of the Trigger frame is less than or equal to 418."		2017/1/9 9:42
9638	Yongho Seok	225	1 9.3.1.23	47	62	T	Y	47.62 9.3.1.23	When HT/VHT PPDU containing a Trigger frame with a Padding field is transmitted by using a short GI, additional two OFDM symbols (3.6usx2=7.2us)do not meet the Trigger Frame MAC Padding Duration of 8us. Please either disallow to use a short GI or add the mPAD values for a short GI as the following: mPAD = 0, max TF MAC Padding Duration among receiving STAs = 0 uss mPAD = 3, max TF MAC Padding Duration among receiving STAs = 8 uss mPAD = 5, max TF MAC Padding Duration among receiving STAs = 16 uss	As per comment.		2017/1/9 9:42
9639	Yongho Seok	225	1 9.3.1.23	48	17	T	Y	48.17 9.3.1.23	"STBC is disallowed for Trigger Frame transmission." This normative sentence should be moved to clause 27.5.2.2.	As per comment.		2017/1/9 9:42
9640	Yongho Seok	225	1 9.3.1.23.1	48	40	T	Y	48.40 9.3.1.23.1	"The MPDU MU Spacing Factor subfield indicates the value by which the minimum MPDU start spacing defined in Table 8-159 is multiplied." Any normative behavior of the STA transmitting A-MPDU is not defined for this MPDU MU Spacing Factor subfield.	Add some normative behavior of the STA using the MPDU MU Spacing Factor subfield in 10.13.3 (Minimum MPDU Start Spacing field).		2017/1/9 9:42

9641	Yongho Seok	225	1 9.3.1.23.6	51	33	T	Y	51.33 9.3.1.23.6	"The Trigger Dependent Common Info field of the GCR MU-BAR variant Trigger frame is defined in Figure 9-52j (Trigger Dependent Common Info field for the GCR MU-BAR variant)." Each recipent GCR STAs can have different block bitmap that is started from different starting sequence. For the BAR Control Information and BAR Information, please change the Trigger Dependent Common Info field to the Trigger Dependent User Info field.	As per comment.		2017/1/9 9:42
9642	Yongho Seok	225	1 9.3.1.8.2	33	54	T	Y	33.54 9.3.1.8.2	The 802.11-2016 spec is clearly stating that the Fragment Number subfield is set to 0. Changing Figure 9-28 without revising this sentence is meaningless.	Remove the changes on Figure 9-28 or clarify how to set the Fragment Number if it can be set to a non-zero value.		2017/1/9 9:42
9643	Yongho Seok	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	Remove a bracket shown on RA field from Figure 9-52c because RA field is always present in the Trigger frame.	As per comment.		2017/1/9 9:42
9644	Yongho Seok	225	1 9.3.1.23	45	43	T	Y	45.43 9.3.1.23	"The first bit, B12, indicates the allocated RU is located in the primary or non-primary 80 MHz (zero for primary and one for non-primary)." What do a primary and a non-primary 80 MHz indicates? Non-primary 80 MHz is not defined in Clause 3.	Change it as the following: "The first bit, B12, is set to 0 for indicating that the allocated RU is located in a primary 80 MHz channel or set to 1 for indicating that the allocated RU is located in a secondary 80 MHz channel."		2017/1/9 9:42
9645	Yongho Seok	225	1 9.3.1.23	46	27	T	Y	46.27 9.3.1.23	"B12 is set to 0 for a 20 MHz, 40 MHz and 80 MHz PPDU. For the 2x996-tone RU case, B12 is set to 1." An interpretation of B12 shown in above is different with the previous paragraph. Probably, it may be for a case when the triggered PPDU is a non-OFDMA PPDU. But, even though it is a non-OFDMA case, current B12 definition is useless. Because B19-B13 has a complete information for indicating a 20/40/80/160/80+80MHz non-OFDMA PPDU. Please explain how current B12 encoding is utilized by a non-AP STA. Otherwise, change it as the following: "When a non-OFDMA PPDU is triggered, B12 is reserved and set to 0."	As per comment.		2017/1/9 9:42
9646	Yongho Seok	225	1 9.3.1.23.4	50	57	T	Y	50.57 9.3.1.23.4	"B12 of the RU Allocation subfield is set to 0 for indication of primary 20 MHz/40 MHz/80 MHz. For 160 MHz/80+80 MHz indication, B12 of the RU Allocation subfield is set to 1." B12 is not utilized by a non-AP STA when determining the resonse channel of the CTS. Like to the MCS, Coding Type, DCM, SS Allocation and Target RSSI fields, change it as the following: "B12 of the RU Allocation subfield is reserved."	As per comment.		2017/1/9 9:42

9647	Yongho Seok	225	1 9.3.1.23.4	50	64	T	Y	50.64 9.3.1.23.4	"If the BW subfield indicates 20 MHz, then the 242-tone RU entry 0111101 for B19-B13 indicates primary 20 MHz channel. .. If the Bandwidth field indicates 80+80 MHz or 160 MHz, then the entry 1000100 for B19-B13 indicates primary and secondary 80 MHz." The RU Allocation subfield in the MU-RTS frame is independent of BW field. For simplifying it, change it as the following: "The 242-tone RU entry 0111101 for B19-B13 indicates the primary 20 MHz channel. The 484-tone RU entry 1000001 for B19-B13 indicates the primary 40 MHz channel. The 996-tone RU entry 1000011 for B19-B13 indicates the primary 80 MHz channel. The 2x996-tone RU entry 1000100 for B19-B13 indicates the primary 80 MHz channel and secondary 80 MHz channel."	As per comment.		2017/1/9 9:42
9648	Yongho Seok	225	1 9.3.1.23.7	52	5	T	Y	52.05 9.3.1.23.7	"The CS Required subfield is set to 1." For consistency with other Trigger frame description, please move this sentence to 27.5.2.4. For example, remove above sentence and change P170 L58 as the following "The CS Required subfield in the MU-RTS variant and the BQRP variant of the Trigger frame shall be set to 1."	As per comment.		2017/1/9 9:42
9649	Yongho Seok	225	1 9.3.3.11	55	17	T	Y	55.17 9.3.3.11	"The TWT element is optionally present when dot11TWTOptionActivated and dot11HEOptionImplemented is true; otherwise it is not present." From 27.7.3.1 (General), the broadcast TWT element is present if it is included in only a broadcast Probe Response frame. Because a broadcast Probe Response frame is allowed only when dot11FILSOmitReplicateProbe Responses is true, change it as the following: "The TWT element is optionally present within broadcast Probe Response frames when dot11TWTOptionActivated, dot11HEOptionImplemented and dot11FILSOmitReplicateProbe Responses are true and ; otherwise it is not present."	As per comment.		2017/1/9 9:42
9650	Yongho Seok	225	1 9.3.3.11	55	26	E	Y	55.26 9.3.3.11	Remove a hyphone from "pre-sent".	As per commment.		2017/1/9 9:42
9651	Yongho Seok	225	1 9.4.1.62	56	38	T	Y	56.38 9.4.1.62	When the Feedback Type is the CQI feedback, Nr Index shall be reserved. Please add this missing statement.	As per comment.		2017/1/9 9:42
9652	Yongho Seok	225	1 9.4.1.62	56	53	T	Y	56.53 9.4.1.62	When the Feedback Type is the CQI feedback, Grouping shall be reserved. Please add this missing statement.	As per comment.		2017/1/9 9:42
9653	Yongho Seok	225	1 9.4.1.62	57	4	T	Y	57.04 9.4.1.62	When the Feedback Type is the CQI feedback, Codebook Information shall be reserved. Please add this missing statement.	As per comment.		2017/1/9 9:42
9654	Yongho Seok	225	1 9.4.1.62	57	21	E	Y	57.21 9.4.1.62	Change "VHT Compressed Beamforming frame" to "HE Compressed Beamforming And CQI frame".	As per comment.		2017/1/9 9:42
9655	Yongho Seok	225	1 9.4.1.62	57	34	E	Y	57.34 9.4.1.62	Change "VHT Compressed Beamforming Report field and MU Exclusive Beamforming Report field" to "HE Compressed Beamforming Report field and HE MU Exclusive Beamforming Report field".	As per commnet.		2017/1/9 9:42

9656 Yongho Seok	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	"The ending RU index indicates the last RU26 for which the HE beamformer is requesting feedback." Above explantion about the Sounding Dialog Token Number is not correct. Change it as the following: "The sounding dialog token from the VHT/HE NDP Announcement frame soliciting feedback"	As per comment.	2017/1/9 9:42
9657 Yongho Seok	225	1 9.4.1.62	57	52	T	Y	57.52 9.4.1.62	"In an HE Compressed Beamforming frame not carrying all or part of an HE Compressed Beamforming report, the Nc Index, Nr Index, Channel Width, Grouping, Codebook Information, Feedback Type and Sounding Dialog Token Number subfields are reserved, the First Feedback Segment subfield is set to 0 and the Remaining Feedback Segments subfield is set to 7." The HE Compressed Beamforming frame does not exist. It shall be changed to the HE Compressed Beamforming And CQI frame. And, when Feedback Type is CQI feedback, an HE Compressed Beamforming report is not present in the HE Compressed Beamforming And CQI frame. But, in such case, the Nc Index, the BW and the Feedback Type are needed in the HE MIMO Control field. Please clarify how to set the HE MIMO Control field when	As per commnet.	2017/1/9 9:42
9658 Yongho Seok	225	1 28.3.13	340	32	T	Y	340.32 28.3.13	"The L-STF, L-LTF, and L-SIG fields shall be transmitted in the same way as in the HE transmission when the TXVECTOR parameter BEAM_CHANGE is 0" Non-HT duplicate transmission shall be equal to the HE transmission when the TXVECTOR parameter BEAM_CHANGE is 1.	Change "BEAM_CHANGE is 0" to "BEAM_CHANGE is 1".	2017/1/9 9:42
9659 Yongho Seok	225	1 27.7.3.1	182	31	T	Y	182.31 27.7.3.1	"The TWT scheduling STA may also include the broadcast TWT element in broadcast Probe Response frames." The broadcast Probe Response frames are allowed only when the TWT scheduling STA has dot11FILSOmitReplicateProbe Responses set to true. Please insert this constraint.	As per comment.	2017/1/9 9:42
9660 Yongho Seok	225	1 9.4.2.6	67	57	T	Y	67.57 9.4.2.6	"When included in TIM frames and FILS discovery frames at the beginning of a broadcast TWT SP by an HE AP:" The TIM element is differently interpreted according to the reception timing of it. If an HE non-AP STA in a doze state wakes up after long time, it can loss any timing information related with TBTT from its associated AP. In such case, when the HE non-AP STA receives a FILS discovery frame transmitted at the beginning of a broadcast TWT SP, it can't determine a content of TIM between an original TIM element and opportunistic power save TIM element.	Instead of redefining a TIM element, make a new information element for an opportunistic power save operation.	2017/1/9 9:42

9661	Yongho Seok	225	1 9.4.2.27	68	19	T	Y	68.19 9.4.2.27	When dot11S1GOptionImplemented is true, the TWT Requester Support is signalled through the S1G Capabilities element. Change it as the following: "A STA sets the TWT Requester Support field to 1 when dot11TWTOptionActivated is true and dot11S1GOptionImplemented is false, and sets it to 0 otherwise. See 11.11.9.9 (TWT section)."	As per comment.		2017/1/9 9:42
9662	Yongho Seok	225	1 9.4.2.27	68	25	T	Y	68.25 9.4.2.27	When dot11S1GOptionImplemented is true, the TWT Responder Support is signalled through the S1G Capabilities element. Change it as the following: "A STA sets the TWT Responder Support field to 1 when dot11TWTOptionActivated is true and dot11S1GOptionImplemented is false, and sets it to 0 otherwise. See 11.11.9.9 (TWT section)."	As per commnet.		2017/1/9 9:42
9663	Yongho Seok	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	"The BSS Color field is an unsigned integer whose value is the BSS color of the BSS corresponding to the AP which transmitted this element, except that a value of 0 in this field indicates that there is no BSS color for this BSS." This paragraph has not been removed yet differently with the comment resolution document (11-16/0862r3) of CC23.	Remove the following paragraph: "The BSS Color field is an unsigned integer whose value is the BSS color of the BSS corresponding to the AP which transmitted this element, except that a value of 0 in this field indicates that there is no BSS color for this BSS."		2017/1/9 9:42
9664	Yongho Seok	225	1 9.4.2.219	91	60	T	Y	91.60 9.4.2.219	"The HE Duration Based RTS Threshold field enables an HE AP to manage RTS/CTS usage by HE non-AP STAs that are associated with it." Does the HE Duration Based RTS Threshold field manage the MU-RTS/CTS usage as well? Please clarify it.	As per commnet.		2017/1/9 9:42
9665	Yongho Seok	225	1 9.4.2.219	91	64	T	Y	91.64 9.4.2.219	"The value 0 indicates that RTS/CTS must be used for all frame exchanges." First comment is that any normative text is not allowed in Clause 9. Second comment is that all frame exchanges can not use RTS/CTS. The value 0 can be applied only for an HE STA.	As per comment.		2017/1/9 9:42
9666	Yongho Seok	225	1 9.4.2.218.2	77	27	T	Y	77.27 9.4.2.218.2	The TWT Requester Support field is not defined in the Extended Capabilities element. Remove either one. For a general purpose, please keep The TWT Requester Support field in the Extended Capabilities element.	As per comment.		2017/1/9 9:42
9667	Yongho Seok	225	1 9.4.2.218.2	77	33	T	Y	77.33 9.4.2.218.2	The TWT Responder Support field is not defined in the Extended Capabilities element. Remove either one. For a general purpose, please keep The TWT Responder Support field in the Extended Capabilities element.	As per comment.		2017/1/9 9:42
9668	Yongho Seok	225	1 9.4.2.218.2	79	4	T	Y	79.04 9.4.2.218.2	"Indicates whether the STA supports reception of a Multi-STA BlockAck frame that has a 32-bit BlockAck Bitmap intended to it." In additional to 32-bit Block Ack Bitmap, 128-bit Block Ack Bitmap and 256-bit Block Ack Bitmap also need a capability field.	As per comment.		2017/1/9 9:42
9669	Yongho Seok	225	1 9.4.2.218.2	79	42	T	Y	79.42 9.4.2.218.2	For the Maximum AMPDU Length Exponent field, explain the definition and encoding way.	As per comment.		2017/1/9 9:42

9670 Yongho Seok	225	1 9.4.2.218.2	79	26	T	Y	79.26 9.4.2.218.2	"Indicates support by a non-AP STA for the reception of a group-addressed Multi-STA BlockAck frame that is sent in a DL MU PPDU in a non-broadcast RU." A group-addressed Multi-STA BlockAck frame is not sent in a non-broadcast RU of an HE MU PPDU. Change it as the following: "Indicates support by a non-AP STA for the reception of a group-addressed Multi-STA BlockAck frame that is sent in a broadcast RU of a DL MU PPDU.".	As per comment.	2017/1/9 9:42
9671 Yongho Seok	225	1 9.4.2.218.2	79	14	T	Y	79.14 9.4.2.218.2	The below subfield name is wrong. "Ack-enabled Multi-TID Aggregation Support" It shall be replaced with the following: "Ack Enabled Multi-TID A-MPDU Support"	As per comment.	2017/1/9 9:42
9672 Yongho Seok	225	1 9.4.2.218.2	79	14	T	Y	79.14 9.4.2.218.2	Regarding the "Ack Enabled Multi-TID A-MPDU Support" subfield, TGax draft 1.0 says the following: "An HE transmitter shall not aggregate MPDU that asks for Ack in a multiple-TID A-MPDU to the HE recipient unless the recipient sets Ack Enabled Multi-TID A-MPDU Support subfield to 1 in its announced HE Capabilities element." The definition of subfield should be changed as the following: "Indicates support by a STA to receive a multi-TID A-MPDU that can solicit Ack, as described in 27.10.4 (A-MPDU with multiple TIDs)."	As per comment.	2017/1/9 9:42
9673 Yongho Seok	225	1 9.4.2.219	92	27	T	Y	92.27 9.4.2.219	Any normative texts can not be placed on Clause 9. Please remove the following paragraph or move it to Clause 27. "If a HE non-AP STA receives from associated AP a BSS Color Disabled subfield value equal to 1 in the HE Operation element the HE non-AP STA should not exclusively use BSS Color parameter in making decision related to Intra-PPDU power save and for setting Intra BSS NAV. Instead, the non-AP STA should use the MAC header to make such decisions (see 27.11.4 (BSS_COLOR)). HE non-AP STA may (re)enable BSS Color related features once it receives from the associated AP a BSS Color Disabled subfield equal to 0 in an HE Operation element."	As per comment.	2017/1/9 9:42

9674 Yongho Seok	225	1 9.4.2.219	93	10	T	Y	93.10 9.4.2.219	The addition of the VHT Operation Information field to the HE Operation element does not remove dependency from the VHT Operation element. If it is needed, the Basic VHT-MCS And NSS Set field also be added to the HE Operation element. Second comment is that it shall be placed as an optional field. When an HE AP supports both VHT STAs and HE STAs, it have to include an VHT Operation element. In such case, the addition of the VHT Operation Information field to the HE Operation element is just overhead. Third comment is that on 2.4GHz 80MHz operation is not allowed. Then, why do you think that the VHT Operation Information should be added to the HE Operation element? Are you considering the HE BSS consisting of only HE STAs? Please clarify above comments.	As per commnet.	2017/1/9 9:42
9675 Yongho Seok	225	1 9.6.5.1	99	1	T	Y	99.01 9.6.5.1	The below frames are not defined. - L3 FRAG ADDBA Request - L3 FRAG ADDBA Response - L3 FRAG DELBA Please define the above frames or remove them.	As per comment.	2017/1/9 9:42
9676 Yongho Seok	225	1 9.4.2.222	95	43	E	Y	95.43 9.4.2.222	Remove hyphen from "Announce-ment"	Remove hyphen from "Announce-ment"	2017/1/9 9:42
9677 Yongho Seok	225	1 9.7.1	107	1	T	Y	107.01 9.7.1	"Low + Lhigh x 4096, VHT PPDU" HE PPDU is missing.	Add HE PPDU as well.	2017/1/9 9:42
9678 Yongho Seok	225	1 9.7.3	110	37	T	Y	110.37 9.7.3	What does "AckRequest" mean? Remove "/AckRequest".	As per comment.	2017/1/9 9:42
9679 Yongho Seok	225	1 9.7.3	110	11	T	Y	110.11 9.7.3	"Of these, at most one of the following is present in a non-DMG BSS except HE BSS: -- One or more QoS Data frames with the Ack Policy field equal to Implicit Block Ack Request -- A BlockAckReq frame" A downlink transmission of an HE BSS also needs a same restriction. Change it as the following: "Of these, at most one of the following is present in a non-DMG BSS except for an UL MU transmission in an HE BSS:"	As per commnet.	2017/1/9 9:42
9680 Yongho Seok	225	1 10.3.2.4	115	8	T	Y	115.08 10.3.2.4	"The PPDU that carried information of the RXVECTOR parameter is not HE trigger-based PPDU triggered by the STA" A control response frame can be sent in an HE PPDU. For example, if a control frame is sent as a response to a soliciting HE extended range SU PPDU, the frame shall be carried in an HE extended range SU PPDU. Above rule for the NAV update does not cover this case. So, change it as the following: "The PPDU that carried information of the RXVECTOR parameter is not an HE extended range SU PPDU, HE SU PPDU, or HE trigger-based PPDU solicited by the STA"	As per commnet.	2017/1/9 9:42
9681 Yongho Seok	225	1 10.3.2.8a.2	117	8	T	Y	117.08 10.3.2.8a.2	What is a procedure after a failure of the MU-RTS frame transmission? Add the following setence (same rule defined in 802.11 base spec): "In this instance, the STA shall invoke its backoff procedure at the PHY-RXEND.indication primitive and may process the received frame."	As per comment.	2017/1/9 9:42

9682	Yongho Seok	225	1 10.3.2.8a.3	117	39	T	Y	117.39 10.3.2.8a.3	"The data rate to be used for the non-HT PPDU response shall be 6 Mb/s (see 17.1.1 General)." A non-HT duplicate PPDU is missing. Change it as the following: "The data rate to be used for the non-HT or non-HT duplicate PPDU response shall be 6 Mb/s (see 17.1.1 General)."	As per commnet.		2017/1/9 9:42
9683	Yongho Seok	225	1 10.3.2.8a.3	118	34	T	Y	118.34 10.3.2.8a.3	Current TGax D1.0 is not indicating when TXVECTOR parameter TRIGGER_RESPONDING is present. Add the following sentence at the end of subclause 10.3.2.8a.3. "The TXVECTOR parameter TRIGGER_RESPONDING shall be present in a non-HT or non-HT duplicate PPDU transmitted by an HE STA. It is set to true if the non-HT or non-HT duplicate PPDU carries a CTS frame sent in response to an MU-RTS frame. Otherwise, it is set to false."	As per comment.		2017/1/9 9:42
9684	Yongho Seok	225	1 10.3.2.10.3	120	3	T	Y	120.03 10.3.2.10.3	"Multi-STA BlockAck frame transmissions are allowed in a non-HT Duplicate PPDU, HT PPDU, VHT PPDU, HE SU PPDU, HE extended range SU PPDU and OFDMA HE MU PPDU." The non-HT PPDU is missing. Add the non-HT PPDU. However, if the non-HT PPDU is also added, all possible downlink PPDU can carry an Multi-STA BlockAck frame. Then, this sentence does not have any meaning. Please remove this sentence.	As per comment.		2017/1/9 9:42
9685	Yongho Seok	225	1 10.3.2.10.3	120	8	T	Y	120.08 10.3.2.10.3	The PSDU of HE PPDU is always an A-MPDU. Change it as the following "...in response to A-MPDU sent in HE trigger-based PPDU..."	As per commnet.		2017/1/9 9:42
9686	Yongho Seok	225	1 10.3.2.10.3	122	1	T	Y	122.01 10.3.2.10.3	"When HE duration-based RTS is enabled, a non-AP STA using the DCF or EDCA shall use an RTS/CTS exchange for individually addressed frames when the duration of the TXOP is greater than the duration threshold indicated by dot11DurationRTSThreshold." When HE duration-based RTS is enabled, what is a rule of an AP STA? Probably, same rule should be used. Change it as the following: "When HE duration-based RTS is enabled, a STA using the DCF or EDCA shall use an RTS/CTS exchange..."	As per comment.		2017/1/9 9:42
9687	Yongho Seok	225	1 10.9	126	65	T	Y	126.65 10.9	The MIB variable conditions for Buffer Status Report (BSR), UL Power Headroom, Bandwidth Query Report (BQR) and Reverse Direction Protocol (RDP) are missing.	For setting dot11HEControlFieldOptionImplemented to true, add the MIB variable conditions of Buffer Status Report (BSR), UL Power Headroom, Bandwidth Query Report (BQR) and Reverse Direction Protocol (RDP).		2017/1/9 9:42
9688	Yongho Seok	225	1 10.9	127	48	T	Y	127.48 10.9	Please clarify whether the A-Control field can be present in a non-HT PPDU. A PSDU of an HE PPDU is always an A-MPDU. If an intention of this sentence is not addressing a non-HT PPDU case, please change it as the following: "...of QoS Data or Management frames carried in an A-MPDU."	As per comment.		2017/1/9 9:42

9689 Yongho Seok	225	1 10.9	127	38	E	Y	127.38 10.9	"If the HT Control field is present in an MPDU aggregated in an A-MPDU, then all MPDUs of the same frame type (i.e., having the same value for the Type subfield of the Frame Control field) aggregated in the same A-MPDU shall contain an HT Control field. The HT Control field of all MPDUs containing the HT Control field aggregated in the same A-MPDU shall be set to the same value." The cited paragraph is an existing paragraph of 802.11 base specification.	Remove an editing instruction (underline).		2017/1/9 9:42
9690 Yongho Seok	225	1 10.12	128	11	T	Y	128.11 10.12	The Fragmented A-MSDU Support bit is a wrong field name.Change it as the following: "...is indicated with the A-MSDU Fragmentation Support field of the HE Capabilities element."	As per comment.		2017/1/9 9:42
9691 Yongho Seok	225	1 10.22.2.2	130	1	T	Y	130.01 10.22.2.2	"When an HE STA successfully receives the corresponding acknowledgement frame in response to the MPDU sent in HE trigger based PPDU, the backoff for the associated EDCAF resumes the backoff counter countdown. When an HE STA does not receive the corresponding acknowledgement frame in response to the MPDU sent in HE trigger based PPDU, the backoff for the associated EDCAF resumes the backoff counter countdown." The above two paragraphs are independent on the reception status of the acknowledgement frame. Because the same rule is applied on the backoff procedure. Please merge two paragraphs as the following. "After completing an HE trigger-based PPDU transmission sequence, the backoff for the associated EDCAF resumes the backoff counter countdown."	As per commnet.		2017/1/9 9:42
9692 Yongho Seok	225	1 10.22.2.4	130	25	E	Y	130.25 10.22.2.4	"If a non-VHT non-HE STA receives..." "or" between non-VHT and non-HE STA is missing.	Change it as the following: "If a non-VHT or a non-HE STA receives..."		2017/1/9 9:42
9693 Yongho Seok	225	1 10.22.2.5	130	45	T	Y	130.45 10.22.2.5	Channels indicated idle by the channel-list parameter (shown on Table 10-10) shall supports an HE punctured PPDU.	Add new channel-list parameter for supporting an HE punctured PPDU.		2017/1/9 9:42
9694 Yongho Seok	225	1 10.22.2.7	132	6	T	Y	132.06 10.22.2.7	"– a VHT NDP Announcement frame followed after SIFS by a VHT NDP followed after SIFS by a PPDU containing one or more VHT Compressed Beamforming frames..." The HE sounding procedure should be included. Insert the following: "– an HE NDP Announcement frame followed after SIFS by an HE NDP optionally followed after SIFS by a PPDU containing one or more HE Compressed Beamforming And CQI frames or,"	As per comment.		2017/1/9 9:42
9695 Yongho Seok	225	1 10.24.10.3	134	23	T	Y	134.23 10.24.10.3	"If the originator has a GCR block ack agreement with one or more of the HE STAs for this group address, the originator may send an MU-BAR frame (MU-BAR variant Trigger frame) or GCR MU-BAR frame (GCR MU-BAR variant Trigger frame) to one or more of the HE STAs." Two mechanisms (first is MU-BAR and second is GCR MU-BAR) for soliciting an UL MU based GCR Block ACK are defined.Remove GCR MU-BAR procedure from 10.24.10.3 (also remove 9.3.1.23.6).	As per commnet.		2017/1/9 9:42

9696 Yongho Seok	225	1 11.1.3.10	141	32	T	Y	141.32 11.1.3.10	Remove 11.1.3.10 because there is no evidence of the coverage improvement through the Beacon frame transmitted in an HE extended range SU PPDU. Please provide a simulation result of the Beacon transmission in an HE extended range SU PPDU. If it is proven, the rate selection rule of the Beacon transmission in an HE extended range SU PPDU shall be added. Insert a new subclause in 10.7.5 (Rate selection for Data and Management frames) for a rate selection of an HE extended range Beacon frame.	As per comment.		2017/1/9 9:42
9697 Yongho Seok	225	1 11.2.2.17	143	49	T	Y	143.49 11.2.2.17	A critical update should include the following case: "Inclusion of BSS Color Change Announcement element"	As per commnet.		2017/1/9 9:42
9698 Yongho Seok	225	1 11.49.1	144	29	T	Y	144.29 11.49.1	Move subclause 11.49.1 into a new subclause of 27.16 (HE BSS operation).	As per comment.		2017/1/9 9:42
9699 Yongho Seok	225	1 27.2.2	150	24	T	Y	150.24 27.2.2	"An HE non-AP STA shall maintain two NAV timers." When an HE non-AP STA is not associated with an HE AP, it is not required to maintain two NAV timers. Because the HE trigger-based PPDU is not used. Change it as the following: "An HE non-AP STA associated with an HE AP STA shall maintain two NAV timers."	As per comment.		2017/1/9 9:42
9700 Yongho Seok	225	1 27.2.2	151	20	T	Y	151.20 27.2.2	"The PPDU that carried information of the RXVECTOR parameter is not an HE trigger-based PPDU triggered by the STA" A control response frame can be sent in an HE PPDU. For example, if a control frame is sent as a response to a soliciting HE extended range SU PPDU, the frame shall be carried in an HE extended range SU PPDU. Above rule for the NAV update does not cover this case. So, change it as the following: "The PPDU that carried information of the RXVECTOR parameter is not an HE extended range SU PPDU, HE SU PPDU, or HE trigger-based PPDU solicited by the STA"	As per commnet.		2017/1/9 9:42
9701 Yongho Seok	225	1 27.2.2	151	56	T	Y	151.56 27.2.2	"A STA that maintains two NAVs has the capability to maintain NAV set by intra-BSS PPDU and inter-BSS PPDU separately. Maintaining two NAV is beneficial in dense deployment scenarios where a STA requires protection from frames transmitted by STAs within its BSS, i.e., intra-BSS, and avoid interference from frames transmitted by STAs in neighboring BSS, i.e., inter-BSS. For example, in a TXOP initiated by the associated AP for UL MU transmission, the intra-BSS NAV of the STA can be set by the AP to prevent the STA from contending the channel, and the basic NAV will not be updated by the associated AP so that NAV set by inter-BSS PPDU can be considered in UL MU CS as described in 27.5.2.4 (UL MU CS mechanism)." The above paragraph is a general introduction of two NAVs. Move the above paragraph to the end of 4.3.14a (HE STA).	As per comment.		2017/1/9 9:42

9702 Yongho Seok	225	1 27.2.3	152	8	T	Y	152.08 27.2.3	The definition of an UL MU capable STA is as the following (see 27.5.2.1): "A non-AP STA with dot11ULMUMIMOOptionImplemented equal to true is referred to as an UL MU capable STA." So, an UL MU capable STA represents a non-AP STA supporting an UL MU-MIMO. See the title of 27.2.3: "Obtaining an EDCA TXOP for UL MU capable STAs" When a non-AP STA does not support an UL MU-MIMO, it is not an UL MU capable STA. So, an EDCA TXOP rule defined in 27.2.3 is not applied to that STA. Probably, it is not an intention of the proposed EDCA TXOP rule. Replace "UL MU capable STA(s)" with "HE non-AP STA(s)" throughout the TGax draft 1.0	As per commnet.		2017/1/9 9:42
9703 Yongho Seok	225	1 27.16.2	206	58	T	Y	206.58 27.16.2	"A HE non-AP STA in an infrastructure BSS shall not transmit the BSS Color Change Announcement element." In an TDLS/DLS, mesh cases, an HE non-AP STA should be allowed to transmit the BSS Color Change Announcement element. See the issue happened in an TDLS/DLS case. An HE non-AP STA1 has 1st TDLS connection with an HE non-AP STA2. And, the BSS Color of 1st TDLS connection is set to 1. Then, the HE non-AP STA1 has 2nd TDLS connection with an HE non-AP STA3. If the HE non-AP STA3 is a TDLS initiator STA, the HE non-AP STA1 can not know the BSS color of 2nd TDLS connection before receiving the TDLS confirm frame from the HE non-AP STA3. When the BSS color of 2nd TDLS connection is set to 2, the HE non-AP STA1 shall consider two BSS colors (1 and 2) as an intra-BSS color. It is very complicated	As per comment.		2017/1/9 9:42
9704 Yongho Seok	225	1 27.5.1.1	162	45	T	Y	162.45 27.5.1.1	"An AP shall not transmit to a STA an HE MU PPDU with the HE-SIG-B allocating spatial streams to more than one recipient STA, unless the STA sets the Downlink MU-MIMO On Partial Bandwidth Rx subfield of the HE Capabilities element to 1." The Downlink MU-MIMO On Partial Bandwidth Rx subfield is not defined in the HE Capabilities element. Probably, DL MU-MIMO on Partial BW subfield should be used.	As per commnet.		2017/1/9 9:42

9705 Yongho Seok	225	1 27.5.1.1	162	44	T	Y	162.44 27.5.1.1	"An AP shall not transmit to a STA an HE MU PPDU with the HE-SIG-B allocating spatial streams to more than one recipient STA, unless the STA sets the Downlink MU-MIMO On Partial Bandwidth Rx subfield of the HE Capabilities element to 1." Even though a STA does not support a reception of the DL MU-MIMO on a partial bandwidth, it can receive the DL MU-MIMO PPDU having the HE-SIG-B that allocates multiple spatial streams from a full bandwidth. Change it as the following: "An AP shall not transmit to a STA an HE MU PPDU with the TXVECTOR parameter SIG_B_COMPRESSION_MODE set to 1 and the HE-SIG-B allocating spatial streams to more than one recipient STA, unless the STA sets the DL MU-MIMO On Partial Bandwidth subfield of the HE Capabilities element to 1."	As per comment.		2017/1/9 9:42
9706 Yongho Seok	225	1 27.5.1.1	162	57	T	Y	162.57 27.5.1.1	"A STA shall not transmit a DL OFDMA With MIMO PPDU that contains a unicast RA that corresponds to a STA from which it has not received an HE Capabilities element with the DL OFDMA With MIMO Support field set to 1." What does "DL OFDMA With MIMO Support" field mean? It is not defined in the HE Capabilities element. Delete the corresponding paragraph.	As per comment.		2017/1/9 9:42
9707 Yongho Seok	225	1 27.5.2.1	164	25	T	Y	164.25 27.5.2.1	"A STA that is a class A device shall set the Class A subfield in HE Capabilities elements that it transmits to 1. A STA that is a class B device shall set the Class A subfield in HE Capabilities elements that it transmits to 0." There is no Class A subfield in HE Capabilities element. Change it as the following: "A STA that is a class A device shall set the Device Class subfield in HE Capabilities elements that it transmits to 1. A STA that is a class B device shall set the Device Class subfield in HE Capabilities elements that it transmits to 0."	As per comment.		2017/1/9 9:42
9708 Yongho Seok	225	1 27.5.2.2.1	164	46	T	Y	164.46 27.5.2.2.1	"A value of 0 also indicates that non-associated STAs can transmit on the allocated resource using the random access procedure as described in 27.5.2.6 (UL OFDMA-based random access)." Allowing a non-associated STA to an UL OFDMA-based random access is not defined in TGax draft 1.0. Remove the corresponding paragraph.	As per comment.		2017/1/9 9:42
9709 Yongho Seok	225	1 27.5.2.2.2	165	53	T	Y	165.53 27.5.2.2.2	"...that have indicated reception support for this Trigger frame in the Multiple BSSID Control Support field of the HE Capabilities element it transmits..." The Multiple BSSID Control Support field is not defined. Replace "Multiple BSSID Control Support" with "Rx Control Frame To MultiBSS".	As per comment.		2017/1/9 9:42
9710 Yongho Seok	225	1 27.5.2.2.2	166	62	T	Y	166.62 27.5.2.2.2	The Multi-TID Support field is not defined in the HE MAC Capabilities Information field of the HE Capabilities element. Replace "Multi-TID Support" with "Multi-TID Aggregation Support". Also replace the same on Page 167 Line 7.	As per comment.		2017/1/9 9:42

9711	Yongho Seok	225	1 27.5.2.3	167	58	T	Y	167.58 27.5.2.3	"If the STA is not associated with the AP, TBD." Remove TBD sentence. Otherwise, define any UL MU random access behavior for a non-associated STA.	As per comment.		2017/1/9 9:42
9712	Yongho Seok	225	1 27.5.2.4	170	31	T	Y	170.31 27.5.2.4	"The NAV was set by an intra-BSS frame" Because an HE non-AP STA always maintains two NAVs, the above sentence shall be re-writtend for two NAVs. Change it as the following: "The value of the basic NAV is 0."	As per comment.		2017/1/9 9:42
9713	Yongho Seok	225	1 27.5.2.3	169	61	T	Y	169.61 27.5.2.3	"If the Trigger Type field of a Trigger frame is not Basic Trigger, then the STA shall include in the response A-MPDU at least one MPDU of the required type. A Beamforming Report Poll Trigger frame solicits HE Compressed Beamforming Feedback frames (see 27.6 (HE sounding protocol), an MU BAR Trigger frame solicits BlockAck frames (see 27.4 (Block acknowledgement)), and a BSRP Trigger frame solicits QoS Null frames (see 27.5.2.5 (HE buffer status feedback operation for UL MU). The MPDUs included in the response shall not solicit a response." The HE Compressed Beamforming Feedback frame is a wrong frame name. And, the above paragraph is missing the Bandwidth Query Report Poll variant Trigger frame. Change it as the following: "...A Beamforming Report Poll Trigger frame solicits HE Compressed Beamforming	As per comment.		2017/1/9 9:42
9714	Yongho Seok	225	1 27.5.2.6.3	174	10	T	Y	174.10 27.5.2.6.3	"If an HE trigger-based PPDU soliciting an immediate response that is sent by a STA in its randomly selected RU (see 27.5.2.6.2 (Random access procedure)) fails, then the STA may attempt to retransmit the HE trigger-based PPDU using random access." If the STA does not attempt to retransmit it after a failure of an HE trigger-based PPDU in a randomly selected RU, what is a value of OCW? Probably, in such case, the STA shall set its OCW to OCWmin. Please clarify it.	As per comment.		2017/1/9 9:42
9715	Yongho Seok	225	1 27.5.2.7	174	22	T	Y	174.22 27.5.2.7	The NDP feedback report procedure is a blank. Delete this feature or define it.	As per comment.		2017/1/9 9:42
9716	Yongho Seok	225	1 27.5.3	174	36	T	Y	174.36 27.5.3	What does "a cascading sequence of MU PPDUs in a TXOP" mean? In my understanding, a cascading sequence of MU PPDU is as the following: An HE MU PPDU transmitted by the AP a SIFS after an HE trigger-based PPDU has the following A-MPDU contents: -- One or more Ack, BlockAck or Multi-STA BlockAck frames for the preceding HE trigger-based PPDU and, -- Zero or more MPDUs and, -- One or more Trigger frames or UL MU Response Scheduling A-Control fields Please clarify a cascading sequence of MU PPDUs in a TXOP.	As per comment.		2017/1/9 9:42

9717	Yongho Seok	225	1 27.5.3	175	57	T	Y	175.57 27.5.3	"The cascading sequence may have different UL transmitters within each HE trigger-based PPDU. The cascading sequence may have a different set of transmitters in HE trigger-based PPDUs as compared to the HE MU PPDU that immediately follows the HE trigger-based PPDUs within the same TXOP." Is this paragraph an unique feature of the cascading sequence? In my understanding, this paragraph is comonly applied to an UL MU sequence. If this paragraph is needed, please move it to 27.5.2.1 (General).	As per comment.		2017/1/9 9:42
9718	Yongho Seok	225	1 27.4.3	159	54	T	Y	159.54 27.4.3	"A recipient shall not include in a transmitted Multi-STA BlockAck frame a BlockAck Bitmap field of size 32 bits that is intended to a STA that has not declared support of its reception in the HE Capabilities element it transmits." For using the BlockAck Bitmap length of 128 or 256 bits, a STA needs to check the declared HE Capabilities element of its peer STA. Insert the missing constraint for the BlockAck Bitmap length of 128 or 256 bits.	As per comment.		2017/1/9 9:42
9719	Yongho Seok	225	1 27.4.4.3	161	14	T	Y	161.14 27.4.4.3	"An Action frame in the DL MU PPDU is always responded with an HE trigger-based PPDU." The MMPDU is missing. Change it as the following: "An Action frame or a MMPDU in the DL MU PPDU is always responded with an HE trigger-based PPDU."	As per comment.		2017/1/9 9:42
9720	Yongho Seok	225	1 27.6.3	179	3	T	Y	179.03 27.6.3	Rules for segmented feedback in HE sounding protocol sequences is not defined. Define the following sequnce: HE NDPA | HE NDP | HE Compressed Beamforming And CQI frame (segmented) | Beamforming Report Poll frame | HE Compressed Beamforming And CQI frame (segmented)	As per comment.		2017/1/9 9:42
9721	Yongho Seok	225	1 28.2.2	218	5	T	Y	218.05 28.2.2	Because HE STA can operate in 2.4GHz band, parameter NO_SIG_EXTN is present when FORMAT is HE_SU, HE_MU, HE_EXT_SU or HE_TRIG.	As per comment.		2017/1/9 9:42
9722	Yongho Seok	225	1 27.16	204	27	G	Y	204.27 27.16	I think that 27.16 (HE BSS operation) specifies an MLME for an HE STA. It means that Clause 27 has both a MAC sublayer functional description for an HE STA (from 27.1 to 27.5) and an MLME for an HE STA. But, on IEEE 802.11-2016, a MAC sublayer functional description and an MLME are described in seperate clauses. For consistency with IEEE 802.11-2016, it is appropriate to move all MLME texts of an HE STA (e.g., subclause 27.16) to clause 11.	As per comment.		2017/1/9 9:42
9723	Yongho Seok	225	1 27.8.2	189	8	T	Y	189.08 27.8.2	"After transmitting the acknowledgement frame immediate response immediate acknowledgement for the frame containing the OMI A-Control field..." It is a wrong sentence. Change it as the following: "After transmitting the immediate acknowledgement for the frame containing the OMI A-Control field..."	As per comment.		2017/1/9 9:42

9724 Yongho Seok	225	1 27.8.2	189	3	T	Y	189.03 27.8.2	"The OMI responder shall use the values indicated by the Rx Channel Width and Rx NSS subfields of the most recently received OMI A-Control field sent by the OMI initiator to send PPDUs to the OMI initiator in subsequent TXOP." Please specify how to use the values indicated by the Rx Channel Width and Rx NSS subfields of the most recently received OMI A-Control field.	Replace the corresponding paragraph with the following: "The OMI responder shall not transmit non-OFDMA PPDUs to the OMI initator in subsequent TXOP that uses a bandwidth that is greater than the channel width indicated by Rx Channel Width subfield in the most recently received OMI A-Control field from that OMI initator. The OMI responder shall not transmit OFDMA PPDUs to the OMI initator in subsequent TXOP that allocates an RU outside of the channel width indicated by Rx Channel Width subfield in the most recently received OMI A-Control field from that OMI initator. The OMI responder shall not transmit PPDUs to the OMI initator in subsequent TXOP that uses a greater number of spatial streams than indicated by Rx NSS subfield in the most recently received OMI A-Control field from that OMI initator."		2017/1/9 9:42
9725 Yongho Seok	225	1 27.8.3	189	29	T	Y	189.29 27.8.3	"NOTE--The Channel Width subfield indicates the maximum channel width that the STA will use in response to Trigger frames" It is a normative text. Please covert from NOTE to a next bullet of the "Tx NSS subfield" bullet.	As per comment.		2017/1/9 9:42
9726 Yongho Seok	225	1 27.8.3	189	55	T	Y	189.55 27.8.3	"Shall indicate a channel width in the RU Allocation subfield of the Per User Info field of a Trigger frame, containing the AID of the OMI initiator, that is less than or equal to the value specified in the Channel Width subfield of the OMI A-Control field received by the OMI initiator" A channel width in the RU Allocation subfield of the Per User Info field is ambiguous.	Replace the corresponding paragrph with the following: "Shall indicate the RU Allocation subfield of the Per User Info field of a Trigger frame, containing the AID of the OMI initiator, by which the occupied channel is subset of the channel supported in the Channel Width subfield of the OMI A-Control field received by the OMI initiator"		2017/1/9 9:42
9727 Yongho Seok	225	1 27.2.1	150	15	T	Y	150.15 27.2.1	"If the received frame satisfies both intra-BSS and inter-BSS conditions, the decision made by using the MAC address takes precedence over the decision made by using the RXVECTOR parameter BSS_COLOR." There exist several further cases that satisfie both intra-BSS and inter-BSS conditions. For example, an HE AP receives an HE MU PPDU having the same BSS_COLOR. Above cited spec text is covering only single specific case. For generalizing it, please change it as the following. "If the received frame satisfies both intra-BSS and inter-BSS conditions, the decision made by using the RXVECTOR parameter BSS_COLOR is overridden by the decision made by using the other parameter."	As per comment.		2017/1/9 9:42

9728 Yongho Seok	225	1 27.9.2.1	190	21	T	Y	190.21 27.9.2.1	"If the PHY of a STA issues a PHY-CCA.indication with a value equal to BUSY followed by an RXSTART.indication due to a PPDU reception then the STA's MAC sublayer may a) issue a PHY-CCARESET.request primitive and b) not update its NAV timers based on frames carried in the PPDU if all the following conditions are met:" The above rule is missing how long the STA's MAC sublayer can issue a PHY-CCARESET.request primitive, if the conditions are met. Change it as the following: "...may a) issue a PHY-CCARESET.request primitives before the end of the PPDU and..."	As per comment.		2017/1/9 9:42
9729 Yongho Seok	225	1 27.9.2.1	190	50	E	Y	190.50 27.9.2.1	"SR Backoff procedure for SR delayed case" Probably, it is a title of a previous CR motion.	Delete the corresponding sentence.		2017/1/9 9:42
9730 Yongho Seok	225	1 27.9.1	190	11	T	Y	190.11 27.9.1	"When the conditions specified in 27.9 (Spatial reuse operation) are met that allow the transmission of an SR PPDU, an HE STA may transmit an SR PPDU to either an HE STA or a non-HE STA." What is a definiton of a SR PPDU? Also, it is saying that an HE STA can transmit a SR PPDU to all STA (an HE STA or a non-HE STA). Such rule is not needed.	Delete the second paragraph of 27.9.1.		2017/1/9 9:42
9731 Yongho Seok	225	1 27.10.4	195	6	T	Y	195.06 27.10.4	"When the AP specifies a value defined in Table 9-25i (Preferred AC subfield encoding) in the Preferred AC subfield and a value of 1 in the AC Preference Level subfield in the Trigger Dependent User Info field of a Basic Trigger variant Trigger frame, then an HE STA with dot11AMPDUwithMultipleTIDOptionImplemented set to true may aggregate MPDUs from any other TID." The above paragraph is conflicted with the previous paragraph. Remove the corresponding paragraph.	As per comment.		2017/1/9 9:42
9732 Yongho Seok	225	1 27.15.2	201	37	T	Y	201.37 27.15.2	"An HE non-AP STA may transmit an HE trigger-based PPDU to a peer STA if it has received from the peer STA an HE Capabilities element with the UL MU PPDU Support field equal to 1; otherwise the STA shall not transmit an HE trigger-based PPDU to the peer STA." Does a peer STA mean a non-AP STA? If it is yes, it does not make sense. An HE trigger-based PPDU is always addressed to an AP STA. Does a peer STA mean an AP STA? If it is yes, it still does not make sense. For an HE trigger-based PPDU transmission, any capability check is not needed. Please clarify it.	As per comment.		2017/1/9 9:42
9733 Yongho Seok	225	1 28.3.20	371	11	T	Y	371.11 28.3.20	"The receiving procedures are subject to further changes depending on the decisions of spatial reuse and 20 MHz only devices." On the spatial reuse operation, when the STA's MAC sublayer issues a PHY-CCARESET.request primitive, the PHY receive procedure (e.g. issue a PHY-RXEND.indication primitive) shall be explained.	As per comment.		2017/1/9 9:42
9734 Yongho Seok	225	1 28.4	371	15	T	Y	371.15 28.4	The PHY MIB for HE PLME is missing. Also update the PHY MIB in Annex C.	As per comment.		2017/1/9 9:42

9735 Yongho Seok	225	1 28.4.3	372	36	T	Y	372.36 28.4.3	aRxPHYStartDelay is missing.	Add the following aRxPHYStartDelay value into Table 28-46. - 32 us for HE SU PPDU and HE trigger-based PPDU - 40 us for HE ER SU PPDU - 96 us for HE MU PPDU	2017/1/9 9:42
9736 Yongho Seok	225	1 27.4.1	158	6	T	Y	158.06 27.4.1	"...the length of each Block Ack Bitmap subfields shall be equal to the solicited Bitmap length (i.e., FN subfields in solicited Block Ack Request Starting Sequence Control and responding Block Ack Starting Sequence Control for the same TID are equal)." Why does the block ack originator decide the Block Ack Bitmap length? In a case of an implicit Block Ack Request, the block ack recipient decides the Block Ack Bitmap length. Please remove the corresponding sentences for the consistent protocol design.	As per comment.	2017/1/9 9:42
9737 Yongho Seok	225	1 27.4.4.1	160	45	T	Y	160.45 27.4.4.1	"(Multi-TID) BlockAckReq, BlockAckReq, and MU-BAR variant Trigger frames indicate the length of the soliciting block ack responses according to the FN settings defined in 9.3.1.9 (BlockAck frame format)." Why does the block ack originator decide the Block Ack Bitmap length? In a case of an implicit Block Ack Request, the block ack recipient decides the Block Ack Bitmap length. Please remove the corresponding sentences for the consistent protocol design.	As per comment.	2017/1/9 9:42
9738 Yongho Seok	225	1 27.13	199	3	T	Y	199.03 27.13	"The transmission properties, RU_ALLOCATION, DCM, NUM_STS, FEC_CODING, BEAMFORMED , BEAM_CHANGE, and STBC, are determined by the RXVECTOR of the PPDU used to estimate recommended MFB." Is the recommended MFB for a solicited link adaptation? Or, is it for an unsolicited link adaptation? Please clarify it.	As per comment.	2017/1/9 9:42
9739 Yongho Seok	225	1 27.2.1	149	48	T	Y	149.48 27.2.1	"The RXVECTOR parameter BSS_COLOR of the PPDU carrying the frame is not 0 and does not match the BSS color announced by the AP to which the STA is associated" When an HE STA that is associated to a legacy AP receives an HE PPDU with the RXVECTOR parameter BSS_COLOR, the received HE PPDU is an inter-BSS frame. Add the following condition for an inter-BSS frame determination. "The RXVECTOR parameter BSS_COLOR of the PPDU carrying the frame is present and the STA is associated to the legacy AP."	As per comment.	2017/1/9 9:42

9740	Yongho Seok	225	1 27.14.2	200	25	T	Y	200.25 27.14.2	"If random access allocations are made in a sequence of Trigger frames within a trigger-enabled TWT SP, then all the Trigger frames in the sequence shall have the Cascade Indication field set to 1, except for the last Trigger frame in the sequence, which shall have the Cascade Indication field set to 0." The same normative text is already included in 27.7.3.2 (Rules for TWT scheduling STA). Please remove the corresponding paragraph.	As per comment.		2017/1/9 9:42
9741	Yongho Seok	225	1 27.14.2	200	30	T	Y	200.30 27.14.2	"If the OBO counter decrements to a non-zero value with the random access procedure in a Trigger frame with Cascade Indication field set to 0, it may enter the doze state immediately." The OBO counter having a non-zero value does not mean that a STA did not exchange a PS-Poll frame or an APSD trigger frame with an AP. After exchanging a PS-Poll frame or an APSD trigger frame, the STA still can continoue to be in the UL OFDMA-based random access if it has some pending frame. So, it is very odd that a STA is permitted to enter the doze state immediately after receiving a Trigger frame with Cascade Indication field set to 0. Please remove the corresponding sentence.	As per comment.		2017/1/9 9:42
9742	Yongho Seok	225	1 27.14.2	200	32	T	Y	200.32 27.14.2	The following is a behavior of the TWT scheduled STA (see 27.7.3.3) "The TWT scheduled STA shall be in the awake state for AdjustedMinimumTWTWakeDuration time that corresponds to that TWT parameter set, except that the STA may go to doze state when a TWT SP termination event occurs." And, the following is not listed in the TWT SP termination event. "If the OBO counter decrements to a non-zero value with the random access procedure in a Trigger frame with Cascade Indication field set to 1 ." So, please change "may" to "shall" as the following: "..., it shall remain awake for random access in the cascaded Trigger frame."	As per comment.		2017/1/9 9:42
9743	Yongho Seok	225	1 27.7.2	182	2	T	Y	182.02 27.7.2	A TWT requesting STA in PS mode that is awake for a TWT SP may transition to the doze state after an early TWT SP termination event if there is at least one frame exchange with the STA during AdjustedMinimumTWTWakeDuration. But, I think that the below early TWT SP termination event requires no frame exchange. "The reception of a Trigger frame with the Cascade Indication field equal to 0 that is not intended to the STA and does not allocate any random RU during an unannounced TWT" If a frame exchange like a PS-Poll frame or an APSD trigger frame was occured, the AP will attempt to transmit a DL BU frame to the TWT requesting STA.	Change as the following: "...or after an early TWT SP termination event 2) and 3) if there is at least one frame exchange with the STA during AdjustedMinimumTWTWakeDuration, or after an early TWT SP termination event 1) if there is no frame exchange with the STA from the TWT SP start time."		2017/1/9 9:42

9744	Yongho Seok	225	1 27.7.3.3	185	51	T	Y	185.51 27.7.3.3	A TWT requesting STA in PS mode that is awake for a TWT SP may transition to the doze state after an early TWT SP termination event if there is at least one frame exchange with the STA during AdjustedMinimumTWTWakeDuration. But, I think that the below early TWT SP termination event requires no frame exchange. "The reception from the TWT scheduling STA of a Trigger frame with a Cascade Indication field equal to 0 that is not intended to the STA and does not allocate any random RU." If a frame exchange like a PS-Poll frame or an APSD trigger frame was occured, the AP will attempt to transmit a DL BU frame to the TWT requesting STA.	Change as the following: "...or after an early TWT SP termination event 2) and 3) if there is at least one frame exchange with the STA during AdjustedMinimumTWTWakeDuration, or after an early TWT SP termination event 1) if there is no frame exchange with the STA from the TWT SP start time."		2017/1/9 9:42
9745	Yongho Seok	225	1 27.7.3.3	185	48	T	Y	185.48 27.7.3.3	Probably, "AdjustedMinimumWakeDuration" is a typo. "AdjustedMinimumTWTWakeDuration" is right.	Change "AdjustedMinimumWakeDuration" to "AdjustedMinimumTWTWakeDuration".		2017/1/9 9:42
9746	Yongho Seok	225	1 27.7.3.3	185	62	T	Y	185.62 27.7.3.3	"The reception of a frame sent by the TWT responding STA that has either the EOSP subfield equal to 1 or the More Data field equal to 0 when the frame does not contain an EOSP subfield." Because the above paragraph is one of the early TWT SP termination events, it shall be move to bullet 3).	As per comment.		2017/1/9 9:42
9747	Yongho Seok	225	1 27.2.1	149	55	T	Y	149.55 27.2.1	"If the BSSID field is not available, both the RA and TA fields exist, and none of the address fields of the received frame with Individual/Group bit forced to the value 0 match the BSSID of AP to which the STA is associated" When a STA knows the BSSID of an OBSS AP (e.g., through a active or passive scanning), it can identify a received frame as an inter-BSS frame through the BSSID of the OBSS AP. Insert the following additional conditions: "If the BSSID field is not available and the address field of the received frame with Individual/Group bit forced to the value 0 match the BSSID of an OBSS AP to which the STA is not associated" "If the BSSID field is not available, both the RA and TA fields exist, and none of the address fields of the received frame with Individual/Group bit forced to the value 0 match the BSSID of AP to which the STA is associated" When a STA knows the BSSID	As per comment.		2017/1/9 9:42

9748	Yongho Seok	225	1 10.3.2.4	115	31	T	Y	115.31 10.3.2.4	Regarding the NAVTimeout period, the base specification explains it as the following: "In non-DMG BSS, NAVTimeout period is equal to (2 x aSIFSTime) + (CTS_Time) + aRxPHYStartDelay + (2 x aSlotTime). The CTS_Time shall be calculated using the length of the CTS frame and the data rate at which the RTS frame used for the most recent NAV update was received." In here, there are two issues. First issue, when an HE STA received a MU-RTS frame, CTS_Time for calculating the NAVTimeout period of the received MU-RTS frame is fixed to 6Mbps. Second issue, aRxPHYStartDelay is quite different depending on whether an received RTS or MU-RTS is an intra-BSS frame or an inter-BSS frame. When an received RTS or MU-RTS is an intra-BSS frame, aRxPHYStartDelay is 96 us. But, when an received RTS or MU-RTS is an inter-BSS frame, aRxPHYStartDelay is	As per comment.		2017/1/9 9:42
9749	Yongho Seok	225	1 28.3.10.9	298	41	T	Y	298.41 28.3.10.9	"The tone indices for HE-STF field for HE PPDUs except HE trigger-based PPDUs is defined in Equation (28-21)." The HE-STF tone index (iSTF) is never used in any other places. Delete the corresponding sentence and Equation (28-21).	As per comment.		2017/1/9 9:42
9750	Yongho Seok	225	1 28.3.10.9	298	48	T	Y	298.48 28.3.10.9	"The tone indices for HE-STF fields for an HE trigger-based PPDU are defined in Equation (28-22)." The HE-STF tone index (iSTF) is never used in any other places. Delete the corresponding sentence and Equation (28-22).	As per comment.		2017/1/9 9:42
9751	Yongho Seok	225	1 27.15.3	202	24	T	Y	202.24 27.15.3	"NSS and BW selection is further constrained as defined in 27.8 (Operating mode indication) and 11.42 (Notification of operating mode changes)." The BW selection is also constrained by 27.15.2 (PPDU format selection). Add 27.15.2 as additional constraint and specify additional BW selection caused by 27.15.2.	As per comment.		2017/1/9 9:42
9752	Yongho Seok	225	1 28.3.10.10	314	1	T	Y	314.01 28.3.10.10	"When a 1x, 2x or 4x HE-LTF is transmitted..." There is no other HE-LTF mode in addition to 1x, 2x and 4x.Please change it as the following: "It is recommended that the spatial mapping matrix applied to..."	As per comment.		2017/1/9 9:42
9753	Yongho Seok	225	1 27.14.3.1	200	51	T	Y	200.51 27.14.3.1	"At the beginning of these periodic TWT SPs, the AP shall transmit a TIM frame or a FILS Discovery frame that includes a TIM element (see 9.4.2.6 (TIM element))." The use case of a frame transmitted at the beginnng of the periodic TWT SPs is totally different with the original use of the TIM frame and the FILS Discovery frame. If it is needed, please define a new action frame.	As per comment.		2017/1/9 9:42
9754	Yongho Seok	225	1 28.3.11.8	324	23	T	Y	324.23 28.3.11.8	"N_ROT(2<=N_SS<=4)" When the N_SS is equal to 1, the same N_ROT parameter is used.	Change it as the following: "N_ROT(N_SS<=4)"		2017/1/9 9:42
9755	Yongho Seok	225	1 28.3.4	242	22	T	Y	242.22 28.3.4	"The RL-SIG, HE-SIG-A, HE-SIG-B, HE-STF, HE-LTF, and PE fields exist only in HE PPDUs." Isn't it too much obvious?	Remove this sentence.		2017/1/9 9:42

9756	Yongho Seok	225	1 9.4.2.46	68	28	T	Y	68.28 9.4.2.46	"The Timestamp and Beacon Interval fields, DSSS Parameter Set, IBSS Parameter Set, Country, Channel Switch Announcement, Extended Channel Switch Announcement, Wide Bandwidth Channel Switch, Transmit Power Envelope, Supported Operating Classes, IBSS DFS, ERP Information, HT Capabilities, HT Operation, VHT Capabilities, and VHT Operation elements are not included in the Nontransmitted BSSID Profile subelement; the values of these elements for each nontransmitted BSSID are always the same as the corresponding transmitted BSSID element values." The HE Capabilities, HE Operation elements, and BSS Color Change Announcement element are not included in the Nontransmitted BSSID Profile subelement. Please insert those elements into exclusive elements of the Nontransmitted BSSID Profile subelement.	As per comment.		2017/1/9 9:42
9757	Yongho Seok	225	1 9.4.2.219	92	9	T	Y	92.09 9.4.2.219	When the multiple BSSID capability is supported, the TA field of a Beacon frame is set to the transmitted BSSID. Please refer the below definition of the transmitted BSSID from Clause 3. "transmitted basic service set identifier (BSSID): The BSSID included in the medium access control (MAC) header transmitter address field of a Beacon frame when the multiple BSSID capability is supported." So, based on the current definitions of the transmitted BSSID and nontransmitted BSSID, an AP supporting multiple BSSID capability does not transmit a Beacon frame with the TA field set to the nontransmitted BSSID. The Tx BSSID Indicator fields to signal whether an AP corresponds to transmitted BSSID) is not necesary.	Remove the Tx BSSID Indicator field and the MaxBSSID Indicator Tx field.		2017/1/9 9:42
9758	Yoshio Urabe	225	1 9.3.1.23	47	47	T	Y	47.47 9.3.1.23	STAID[11:0] is not defined in the Trigger frame format.	Change "Padding field starts with special STAID[11:0] as 0xFFF ..." to "Padding field starts with an AID12 subfield having a special value 0xFFF ..."		2017/1/9 9:42
9759	Yoshio Urabe	225	1 27.5.2.2.1	165	35	T	Y	165.35 27.5.2.2.1	The value of AID12 subfield for MAC padding of a Trigger frame is not clear. The special AID value is 2047 (i.e. 0x7FF) in 27.5.2.2.1 while the special value of STAID[11:0] is 0xFFF in 9.3.1.23.	Change "a value of the AID equal to 2047" to "a value of the AID12 subfield equal to 0xFFF".		2017/1/9 9:42
9760	Yoshio Urabe	225	1 27.9.2.1	190	11	T	Y	190.11 27.9.2.1	SR PPDU' is not defined.	Define 'SR PPDU' in Section 3		2017/1/9 9:42
9761	Yoshio Urabe	225	1 27.9.2.1	190	30	T	Y	190.30 27.9.2.1	Non-HT Public Action frame should be exempted from SR operation regardless with its RA because of the following reason. Even if an RA of a Public Action frame is an indivudual address other than the receiving STA, it may be intended to a STA in the BSS that the receiving STA belongs to.	Replace lines 30-33 with the following text: -- The PPDU is not a non-HT PPDU that carries a Public Action frame.		2017/1/9 9:42
9762	Yoshio Urabe	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	The text in P190L50-54 is redundant because this condition and operation is covered by P190L36-37 and P190L56-57.	Remove lines 50-54. Move the NOTE in lines 56-57 after the next paragraph, that is, the end of the subclause 27.9.2.1.		2017/1/9 9:42
9763	Yoshio Urabe	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	In Figure 9-52c, parentheses in the RA field is not necessary.	Remove parentheses of (RA) in Figure 9-52c.		2017/1/9 9:42
9764	Yoshio Urabe	225	1 27.9.2.1	190	53	E	Y	190.53 27.9.2.1	SR delay' should be 'SR_Delay' for consistency with HE-SIG-A definition in 28.3.10.7.2.	In lines 53, 56 and 57, replace 'SR delay' with 'SR_Delay'.		2017/1/9 9:42

9765	Youhan Kim	225	1 28.3.3.5	237	30	T	Y	237.30 28.3.3.5	The most important restriction is that 20 MHz operation STAs shall not be assigned RUs 'outside' the Primary20 subchannel. This restriction is missing (P237L30). Also, P237L58 says there is no restriction on 242-tone RU, but that is not correct. Only the 242-tone RU corresponding to the Primary20 can be allocated to the 20 MHz operating STA.	Change P237L30 "An AP shall not assign the following RUs to 20 MHz operating STAs" to "An AP shall not allocate RUs which cannot be signalled as part of the HE-SIG-B RU Allocation subfield corresponding to the Primary 20 MHz subchannel to 20 MHz operating non-AP STAs in HE MU or HE trigger based PPDUs. In additional, an AP shall not allocate the following RUs to 20 MHz operation STAs in HE MU or HE trigger based PPDUs:" Also, delete "If supported, there is no restriction on 242-tone RUs." from P237L58.		2017/1/9 9:42
9766	Youhan Kim	225	1 28.3.3.5	237	32	T	Y	237.32 28.3.3.5	It is not clear to readers why "[Table 28-4 and Table 28-5]" are written on L32. It is probably there to specify what, say, "RU 5" is, but it is not clearly written. Next, DL/UL OFDMA is not a valid PPDU type. Also, phrases like "(2 26-tone RUs are restricted)" do not seem necessary in the standard (probably was needed during discussion phase).	Delete "[Table 28-4 (Subcarrier indices for RUs in a 40 MHz HE PPDU) and Table 28-5 (Subcarrier indices for RUs in an 80 MHz HE PPDU)]" on P237L32. On P237L34, change "RU 5 and 14 in 40 MHz DL/UL OFDMA (2 26-tone Rus are restricted)" to "RU #5 and #14 in 40 MHz HE MU or HE trigger based PPDUs". Similar changes throughout P237L35~L52.		2017/1/9 9:42
9767	Youhan Kim	225	1 28.3.3.6	238	9	T	Y	238.09 28.3.3.6	This section (20 MHz only HE STAs) does not seem to be the appropriate place to state the requirement that an HE AP in 5 GHz must support 80 MHz channel width.	Move the statement "An HE AP in 5 GHz shall be 80 MHz capable" to a more appropriate section.		2017/1/9 9:42
9768	Youhan Kim	225	1 28.3.3.6	238	9	T	Y	238.09 28.3.3.6	An 80 MHz HE AP must also interoperate with 160/80+80 MHz capable non-AP STAs. Also, what does "operate for ... 20 MHz only non-AP HE STAs" mean?	Either add statement that HE APs must interop w/ 160/80+80 MHz capable non-AP STAs as well, or simply delete the state that HE AP must operate w/ 80 MHz capable non-AP STAs. Also, clarify what "operate for ... 20 MHz only non-AP HE STAs" means.		2017/1/9 9:42
9769	Youhan Kim	225	1 28.3.10.7.2	274	33	T	Y	274.33 28.3.10.7.2	4xLTF+0.8 for HE_EXT_SU as well? THe capability bit is for HE_SU only, not for HE_MU or HE_EXT_SU But HE_SIG_A change is for HE_EXT_SU as well (also for HE_MU) The HE PHY Capabilities Information field (P86L24) defines 4x HE-LTF and 0.8 usec GI only for HE SU PPDUs, not HE extended range SU.	Change at P274L33 "a 4x HE-LTF and 0.8 us GI" to "if HE extended SU PPDU format, a 4x HE-LTF and 0.8 us GI"		2017/1/9 9:42
9770	Youhan Kim	225	1 28.3.10.7.2	277	20	T	Y	277.20 28.3.10.7.2	Number of MU-MIMO users cannot be 1 (value 0x0) in HE-SIG-A of HE_MU PPDU because the Spatial Config subfield in HE-SIG-B has Nuser >= 2.	Make the value 0x0 reserved for the Number of HE-SIG-B Symbolf Or MU-MIMO Users field of HE-SIG-A for HE_MU PPDU if the SIGB Compression field is 1.		2017/1/9 9:42
9771	Youhan Kim	225	1 28.3.16	344	56	T	Y	344.56 28.3.16	A beamformer may choose to apply certain spatial mapping matrix to the NDP PPDU where channel smoothing at the receiver side is not desired. Hence, if the Beamformed bit is set to 1 in an NDP PPDU, the receiver shall not perform channel smoothing in generating the sounding feedback.	Add to P344L56 "If the Beamformed bit in the HE-SIG-A of an HE NDP PPDU is set to 1, then the receiver of the HE NDP PPDU shall not perform channel smoothing when generating the compressed beamforming feedback report."		2017/1/9 9:42
9772	Youhan Kim	225	1 28.5	397	1	E	Y	397.01 28.5	Typo. 969-tone RU should be 996-tone RU.	Change "969-tone RU" to "996-tone RU" in the headings of Tables 28-88~94.		2017/1/9 9:42

9773	Youhan Kim	225	1 9.3.1.23	48	17	T	Y	48.17 9.3.1.23	HE trigger based PPDU needs to be sent exactly SIFS (or Signal Extension + SIFS) after the end of reception of the Trigger Frame. If HT/VHT PPDU w/ SGI was used to transmit the Trigger Frame, then the receiver is supposed to align to 4 usec boundary before counting down SIFS, which could introduce ambiguity in the HE trigger based PPDU transmission timing. Also, since DSSS/CCK PPDU formats do not have Signal Extension, HE trigger based PPDUs may need to be sent only 10 usec after the reception of Trigger Frame if the Trigger Frame was sent using DSSS/CCK format.	Add the following to P48L17. "SGI is disallwed for Trigger Frame transmission if the Trigger Frame is sent using the HT or VHT PPDU format. DSSS and CCK PPDU formats are disallwed for Trigger Frame transmission."		2017/1/9 9:42
9774	Youhan Kim	225	1 9.4.2.218.3	84	6	T	Y	84.06 9.4.2.218.3	Suggest to add separate DCM capability bits for larger RU sizes.	Add separate capability bits for DCM TX/RX for different RU sizes.		2017/1/9 9:42
9775	Youhan Kim	225	1 3.2	3	5	T	Y	3.05 3.2	"20 MHz only" STA is undefined, while it is being used multiple in the draft. Also, the terminology is inconsistent - "20 MHz only HE STA", "20 MHz only device", "20 MHz only non-AP HE STA", "20 MHz only non-AP STA", "20 MHz only HE device".	Come up with a single unified terminology for "20 MHz only" xyz. Then, add the definition to clause 3.2. Also, search the draft for "20 MHz only", and replace w/ the unified terminology where applicable.		2017/1/9 9:42
9776	Youhan Kim	225	1 9.3.1.23	44	56	T	Y	44.56 9.3.1.23	Description for the Packet Extension field is not clear. What is the first two bits? B34-35? What is the definition of the pre-FEC padding factor? Is it the same as Table 28-39?	Clarify the definition of the Packet Extension field.		2017/1/9 9:42
9777	Youhan Kim	225	1 28.1.1	209	42	T	Y	209.42 28.1.1	"Channel puncturing" should be "preamble puncturing"	Change "channel puncturing" to "preamble puncturing". Same on P353L55.		2017/1/9 9:42
9778	Youhan Kim	225	1 28.1.1	209	44	T	Y	209.44 28.1.1	"RU" is not defined.	Define the term "RU".		2017/1/9 9:42
9779	Youhan Kim	225	1 28.1.1	209	50	T	Y	209.50 28.1.1	"Symbol duration" has different meaning throughout the draft. P209L51-52 uses it to refer to duration excluding the GI duration. But Table 28-9 and P339L50 use it to refer to duration including the GI duration. 802.11-2016 also uses symbol duration to refer to duration including the GI. Note that Table 28-9 and 11ac uses the term "DFT period" to refer to the duration excluding GI.	Change "symbol durations (symobl duration not including the guard interval" to "DFT periods". Similar changes on P209L52, P302L8 and P302L9.		2017/1/9 9:42
9780	Youhan Kim	225	1 28.1.1	209	58	T	Y	209.58 28.1.1	QPSK DCM is missing. On the other hand, do we need to call out DCM in this list of 'modulations'? DCM does not use a 'separate' modulation/constellation, but simply maps bits to multiple subcarriers using the existing BPSK/QPSK/16-QAM modulations. For example, we don't call out BPSK STBC, QPSK STBC, etc in this list of modulation.	Either remove BPSK DCM and 16-QAM DCM from the list, or add QPSK DCM.		2017/1/9 9:42
9781	Youhan Kim	225	1 28.3.2.1	227	60	T	Y	227.60 28.3.2.1	An RU with a single HE-SIG-B user field ("SU" RU) may be destined to multiple 'users' when the RU is used for broadcast/multicast purposes. Hence, 'transmissions to one user' may be misleading.	Use a more appropriate terminology than 'one user' in "single stream transmissions to one user os spatial multiplexing to one user".		2017/1/9 9:42
9782	Youhan Kim	225	1 28.3.2.1	227	61	T	Y	227.61 28.3.2.1	What is a "full bandwidth" DL MU-MIMO?	Define the phrase "full bandwidth" MU-MIMO		2017/1/9 9:42
9783	Youhan Kim	225	1 28.3.3.1	228	16	T	Y	228.16 28.3.3.1	Table 28-15 does not illustrate the difference between OFDM and OFDMA.	Fix the sentence "The difference between OFDM and OFDMA is illustrated in Table 28-15 (CH_BANDWIDTH and for pre-HE modulated fields)."		2017/1/9 9:42
9784	Youhan Kim	225	1 28.3.3.1	228	20	T	Y	228.20 28.3.3.1	The term "subchannel" seems a bit confusing. In 802.11-2016, subchannel is used to describe 20 MHz or 80 MHz portions of the PPDU. In 11ax D1.0, subchannel is used to describe both 20 MHz subchannels as well as RUs.	Consider using a different term than "subchannelization" and "subchannel" when referring to RUs.		2017/1/9 9:42

9785	Youhan Kim	225	1 28.3.3.2	229	7	E	Y	229.07 28.3.3.2	"may be used" would be a better phrase than "are used"	Change "242-tone RU are used in" to "242-tone RU may be used in". Similar changes on L17, L18, L20, L24, L25, L26.	2017/1/9 9:42
9786	Youhan Kim	225	1 28.3.3.2	229	8	E	Y	229.08 28.3.3.2	There is only one HE MU PPDU format and only one HE trigger-based PPDU format.	Change "HE MU PPDU formats" to "HE MU PPDU format". Also change "HE trigger-based PPDU formats" to "HE trigger-based PPDU format". Similar changes throughout 28.3.3.2.	2017/1/9 9:42
9787	Youhan Kim	225	1 28.3.3.2	229	8	T	Y	229.08 28.3.3.2	HE MU and HE trigger-based PPDU formats are also used for full BW MU-MIMO. In this case, 242-tone RU, for example is used for HE20 MUTRIG even though it is not an 'OFDMA' transmissions.	Delete "using OFDMA transmission". Also on L18, 19, 22.	2017/1/9 9:42
9788	Youhan Kim	225	1 28.3.3.2	229	9	T	Y	229.09 28.3.3.2	"DFS channel" is not a defined term.	Change "if an HE AP operates in a DFS channel" to "if an HE AP STA operates in a channel requiring DFS behavior".	2017/1/9 9:42
9789	Youhan Kim	225	1 28.3.3.2	229	9	T	Y	229.09 28.3.3.2	Clarify how the existence of non-HE OBSS is determined.	Clarify how the existence of non-HE OBSS is determined.	2017/1/9 9:42
9790	Youhan Kim	225	1 28.3.3.2	229	29	T	Y	229.29 28.3.3.2	106-tone and 242-tone RUs may also be used in HE extended range SU PPDU format.	Add a paragraph stating that the 106-tone and 242-tone RUs may also be used in HE extended range SU PPDU format.	2017/1/9 9:42
9791	Youhan Kim	225	1 28.3.3.2	229	30	T	Y	229.30 28.3.3.2	Table 28-2 is applicable only for HE MU and HE trigger-based PPDU formats	Clarify that Table 28-2 is applicable only for HE MU and HE trigger-based PPDU formats	2017/1/9 9:42
9792	Youhan Kim	225	1 28.3.3.2	230	10	T	Y	230.10 28.3.3.2	Is there an explanation of what "RU 1", "RU 2", etc. means in Tables 28-3~5? Also, "[-121:-96]" is supposedly a Matlab style notation which is used w/o any explanation.	Clarify the various notations used in Table 28-3~5.	2017/1/9 9:42
9793	Youhan Kim	225	1 28.3.3.2	232	17	T	Y	232.17 28.3.3.2	What do the numbers "13" represent in Figures 28-2 and 28-4? In general, Figures 28-2~4 are not easy to understand for a first time reader.	Update figures 28-2~4 to be more readable.	2017/1/9 9:42
9794	Youhan Kim	225	1 28.3.3.2	236	6	T	Y	236.06 28.3.3.2	Do we need to list out the null subcarrier indices as shown in Table 28-6? In other words, how does one interprete/use Table 28-6? If one transmits any RU26 in a 20 MHz HE PPDU, then it shall not modulate tones +-69, +-122? But what if right side of 20 MHz HE PPDU is using RU106? Isn't it sufficient to specify which tones are modulated (as in Table 28-3~5), and state that all other tones are not modulated?	Consider removing Table 28-6.	2017/1/9 9:42
9795	Youhan Kim	225	1 28.3.3.5	236	16	T	Y	236.16 28.3.3.5	"when operating 20 MHz" is awkward	Update the section title of 28.3.3.5 to be more readable.	2017/1/9 9:42
9796	Youhan Kim	225	1 28.3.3.5	237	18	T	Y	237.18 28.3.3.5	What does "operate with 20 MHz" mean?	Change "STA can operate with 20 MHz" to "STA may operate in 20 MHz channel width mode".	2017/1/9 9:42
9797	Youhan Kim	225	1 28.3.3.5	237	18	E	Y	237.18 28.3.3.5	"20 MHz-only HE device" is used only here.	Change "20 MHz-only HE device" to "20 MHz-only non-AP STA".	2017/1/9 9:42
9798	Youhan Kim	225	1 28.3.3.5	237	19	E	Y	237.19 28.3.3.5	ROM is a part of OMI.	Change "to 20 MHz by ROM" to "to 20 MHz using OMI".	2017/1/9 9:42
9799	Youhan Kim	225	1 28.3.3.5	237	21	T	Y	237.21 28.3.3.5	"20 MHz operating non-AP STA" is not defined.	Define "20 MHz operating non-AP STA".	2017/1/9 9:42
9800	Youhan Kim	225	1 28.3.3.5	237	21	T	Y	237.21 28.3.3.5	It is not necessary to explain why we are restricting the RU locations for 20 MHz operating STAs participating in wider BW OFDMA packets in the standard. Besides the current explanation is probably not quite clear enough for first time readers anyway (e.g. why is there performance penally?).	Delete "When a 20 MHz operating ... OFDMA operation." (L21~L28)	2017/1/9 9:42

9801	Young Hoon Kwon	225	1 9.2.4.6.4.1	22	60	T	Y	22.60 9.2.4.6.4.1	Control subfield with Control ID subfield equal to 0 implies UL MU response scheduling, where the length of the Control information subfield is 26 bits, which is the maximum available. Therefore, in case Control ID subfield equalt to 0, there can be one and only one Control subfield in the A-Control subfield. So, the sentence "Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence." is meaningless.	Delete the sentence "Control subfield with Control ID subfield equal to 0, if present, is the first subfield of the sequence.".	2017/1/9 9:42
9802	Young Hoon Kwon	225	1 9.2.4.6.4.2	24	21	E	Y	24.21 9.2.4.6.4.2	"RSSI" should be a subscipt.	Make "RSSI" in the word "TRSSI" be subscripts.	2017/1/9 9:42
9803	Young Hoon Kwon	225	1 9.2.4.6.4.3	24	58	T	Y	24.58 9.2.4.6.4.3	Operating channel width for transmission of Trigger based PPDU also needs to be indicated, and the Channel Width subfield can be used for this purpose too.	Modify the text to "The Channel Width subfield indicates the operating channel width supported by the STA in reception and transmission, and is ..."	2017/1/9 9:42
9804	Young Hoon Kwon	225	1 9.2.4.6.4.3	25	1	T	Y	25.01 9.2.4.6.4.3	Main purpose of including Tx NSS in OMI is to use less number of Tx RF chains for power savings. However, different from Rx NSS, the number of Tx RF chains is more closely related with the number of space-time streams (N_STS) compared to the number of spatial streams (N_SS). For example, even in case a STA indicates Tx NSS to be 1, an serving AP can still allocate the STA single spatial stream with STBC, which requires at least two transmit RF chains to be turned on. Because this is still possible, even if a STA supporting STBC indicates Tx NSS = 1 to the serving AP, the STA shall have at least two Tx RF chains on, which defeats the original purpose of having Tx NSS subfield in OMI. For this issue, a simple remedy is to change Tx NSS subfield to indicate the maximum number of space-time streams (N_STS) and modify the related operation accordingly.	As in the comment.	2017/1/9 9:42
9805	Young Hoon Kwon	225	1 9.2.4.6.4.4	25	30	T	Y	25.30 9.2.4.6.4.4	For link adaptation to work properly, NSS and HE-MCS is not enough. For example, for soliced case, MRQ, MSI, and MFSI also need to be included. To further cover unsolicited case, there needs even more subfields. So, at least MRQ, MSI, and MFSI needs to be included into the A-Control field.	Per comment	2017/1/9 9:42
9806	Young Hoon Kwon	225	1 9.2.4.6.4.5	26	2	T	Y	26.02 9.2.4.6.4.5	In case all ACs have traffic, it is possible to set ACI bitmap is set to 0000 (when there are traffic for all 8 TIDs.). This needs to be described in this line, too.	Per comment	2017/1/9 9:42
9807	Young Hoon Kwon	225	1 9.2.4.6.4.7	27	64	T	Y	27.64 9.2.4.6.4.7	Duplicated sentence.	Delete the sentence "Bandwidth Query Report used for bandwidth query report operation to assist DL HE MU transmission (see 25.5.1.3, (Bandwidth query report operation).".	2017/1/9 9:42
9808	Young Hoon Kwon	225	1 9.2.4.6.4.7	28	6	T	Y	28.06 9.2.4.6.4.7	In Table 9-18d, each bit is set to 1 when corresponding channel is available. However, there's no clear definition in which case the channel is available. For example, it is not clear which CCA rule is applied in determining the channel availability. (ED, SD, Mid-Pkt detection, OBSS-PD based SR, etc). Also, it is not clear the measurement period for the decision on this. (E.g., Use of ED results measured during SIFS before transmitting a PPDU that contains this A-Control field.)	Per comment, please clarify how to determine the channel availability.	2017/1/9 9:42

9809	Young Hoon Kwon	225	1 9.2.4.6.4.8	28	60	T	Y	28.60 9.2.4.6.4.8	This is not for a Trigger frame.	Modify the sentence to "The Control Information subfield for Reverse Direction Protocol (RDP) is shown in Figure 9-15i ...".	2017/1/9 9:42
9810	Young Hoon Kwon	225	1 9.2.4.6.4.8	29	12	T	Y	29.12 9.2.4.6.4.8	It is not clear how to decide the AC for response frame if the last Data frames are from multiple TIDs. Need to clarify how to decide the available ACs when the last data frame is multi-TID frame.	Per comment.	2017/1/9 9:42
9811	Young Hoon Kwon	225	1 92.4.6.4.8	29	15	T	Y	29.15 92.4.6.4.8	In legacy RDG case, as RDG/More PPDU subfield is included in every HT Control field, so it is needed to explicitly indicate RDG status. However, for 11ax device, RDP variant A-Control field does not need to exist in every A-Control field. Therefore, having RDP variant A-Control field itself can implicitly indicate. For example, if RDP variant A-Control field is included in the A-Control field from an RD initiator can indicate that "An RDG is present." Otherwise, "No reverse grant.". In this sense, having additional bit for "RDG/More PPDU" is not helpful.	Per comment.	2017/1/9 9:42
9812	Young Hoon Kwon	225	1 9.2.4.6.4.8	29	8	T	Y	29.08 9.2.4.6.4.8	It is not clear why this field needs 6 reserved bits. This field only has 2 meaningful bits. And having 6 bits of reserved bits is somewhat overkill. Also, as is shown in other variant A-Control field, byte-matching is not needed.	Per comment.	2017/1/9 9:42
9813	Young Hoon Kwon	225	1 9.2.5.2	31	10	T	Y	31.10 9.2.5.2	Single protection settings for MU-RTS frame transmission can be used for two different cases: 1) DL MU transmission, and 2) UL MU transmission. Current text in subbullet 1a) only describes the case for UL MU transmission. Therefore, the description needs to include these two cases.	Modify the bullet 1a) to "In an MU-RTS frame, the Duration/ID field is set to the estimated time, in microseconds, required for the pending frame, plus one CTS frame, plus the time for the solicited HE triggerbased PPDU if required, plus the time for an acknowledgement if required, plus applicable IFSs.".	2017/1/9 9:42
9814	Young Hoon Kwon	225	1 9.3.1.9.7	37	23	T	Y	37.23 9.3.1.9.7	Not clear what "the format defined below" means here. It's better to have figure that describes the format for Multi-STA BlockAck, instead. Or, it can also refer to Figure 9-32.	Per comment.	2017/1/9 9:42
9815	Young Hoon Kwon	225	1 9.3.1.9.7	37	24	T	Y	37.24 9.3.1.9.7	Normative descript is not appropriate in clause 9.	Delete the sentence "Multi-STA BlockAck frames shall be supported if either UL MU or multi-TID A-MPDU operation is supported.", and describe the normative behavior in Clause 10 or Clause 27.	2017/1/9 9:42
9816	Young Hoon Kwon	225	1 9.3.1.9.7	38	1	T	Y	38.01 9.3.1.9.7	First, the first sentence should start with a "NOTE". And, the sentence is somewhat misleading as there's no acknowledgement contained in the Per AID TID Info subfield.	Modify the first sentence to "NOTE -- The TID subfield contains the TID for which the acknowledgment or block acknowledgment contained in the Per STA Info subfield applies.".	2017/1/9 9:42
9817	Young Hoon Kwon	225	1 9.3.1.9.7	38	4	T	Y	38.04 9.3.1.9.7	Does the TID value set to 15 imply a management frame or an action frame? In this note, it is said to be a management frame, but in Table 9-24b and in sub-clause 27.4, it is said to be an action frame. Clarification is needed.	As in the comment.	2017/1/9 9:42
9818	Young Hoon Kwon	225	1 9.3.1.9.7	39	62	T	Y	39.62 9.3.1.9.7	In subclause 10.12, it says "An A-MSDU may be fragmented and each fragment transmitted within a single QoS Data frame, when the recipient has indicated support for reception of fragmented A-MSDUs.", which implies that A-MSDU can be fragmented. Therefore, text in 10.12 and text in line 62 contradict each other. Need clarification.	As in the comment.	2017/1/9 9:42
9819	Young Hoon Kwon	225	1 9.3.1.20	40	53	T	Y	40.53 9.3.1.20	How to encode RU Start/End index to 7 bit needs to be described. Please add the rule.	As in the comment.	2017/1/9 9:42

9820	Young Hoon Kwon	225	1 9.3.1.23	41	47	E	Y	41.47 9.3.1.23	In Figure 9-52c, there's no reason to use parenthesis for RA field.	In Figure 9-52c, remove the parenthesis for RA field	2017/1/9 9:42
9821	Young Hoon Kwon	225	1 9.3.1.23	41	65	T	Y	41.65 9.3.1.23	Clarification is need on how to set TA field in case multiple BSSID is supported. Especially for the case that the Trigger frame schedules STAs in different virtual APs under the same physical AP.	As in the comment.	2017/1/9 9:42
9822	Young Hoon Kwon	225	1 9.3.1.23	41	62	T	Y	41.62 9.3.1.23	How about MU-BAR frame with GCR bit in BAR Control field is set to 1? Need further clarification.	As in the comment.	2017/1/9 9:42
9823	Young Hoon Kwon	225	1 9.3.1.23	43	52	T	Y	43.52 9.3.1.23	Normative behavior such as "The AP shall set .." is not appropriate in clause 9. Move this part to sub-clause related with AP behavior for UL MU transmission.	As in the comment.	2017/1/9 9:42
9824	Young Hoon Kwon	225	1 9.3.1.23	44	26	T	Y	44.26 9.3.1.23	There's no "Number of HE-LTF Symbols" defined in Table 28-18. Need clarification	As in the comment.	2017/1/9 9:42
9825	Young Hoon Kwon	225	1 9.3.1.23	45	1	T	Y	45.01 9.3.1.23	It needs further clarification which SR subfield corresponds which 20MHz out of 40/80/160/80+80 channel bandwidth.	As in the comment.	2017/1/9 9:42
9826	Young Hoon Kwon	225	1 9.3.1.23	45	38	T	Y	45.38 9.3.1.23	It should be Padding subfield in the Trigger frame, and is different from MAC padding field.	Modify the sentence to "User Info fields with AID = 0 is allocated only after User Info fields with AID not equals to 0, if any, and before the Padding subfield of the Trigger frame, if present.".	2017/1/9 9:42
9827	Young Hoon Kwon	225	1 9.3.1.23	45	37	T	Y	45.37 9.3.1.23	Normative behavior such as "User Info fields with AID = 0 shall be..." is not appropriate in clause 9. Move this part to sub-clause related with AP behavior for UL MU transmission.	As in the comment.	2017/1/9 9:42
9828	Young Hoon Kwon	225	1 9.3.1.23	47	35	T	Y	47.35 9.3.1.23	"Values 0 to 90" has 91 elements. However, -100dBm to -20dBm with 1dB resolution only has 81 element. So, this mapping is not correct.	Modify the description to "Values 0 to 90 map to -100dBm to -10dBm".	2017/1/9 9:42
9829	Young Hoon Kwon	225	1 9.3.1.23	47	39	T	Y	47.39 9.3.1.23	It is not clear why we need Target RSSI subfield set to 127 if it implies maximum transmit power for the assigned MCS, because the AP sets the target RSSI value to reasonably high such that the STA needs to use its maximum power. Rather, it may be better to imply that no restriction on STA's transmit power.	Modify the description to "Indicates to the STAthat the target received signal power of the HE trigger-based PPDU response is not applied.".	2017/1/9 9:42
9830	Young Hoon Kwon	225	1 9.3.1.23	47	56	T	Y	47.56 9.3.1.23	In case a Trigger frame is carried within an A-MPDU, it is possibe that padding can be done by EOF padding instead of Padding subfield in the Trigger frame. Therefore, the required duration for Padding subfield does not need to follow the equation here as long as total padding (Padding subfield in the trigger frame, EOF paddings, packet extension, etc) satisfies the processint time requirements. In this sense, equations 9-ax1 and 9-1x2 is not needed.	Delete Eq. 9-ax1, 9-ax2.	2017/1/9 9:42
9831	Young Hoon Kwon	225	1 9.3.1.23.1	48	61	T	Y	48.61 9.3.1.23.1	How to encode the TID Aggregation Limit subfield is not defined. In HE Capabilities element, Multi-TID Aggregation Support subfield is set to the number of TIDs minum 1 of QoS Data frames that can be aggregated. If the same rule is applied, it is not clear the meaning of value 0 in the TID Aggregation Limit subfield. If the TID Aggregation Limit subfield is set to the number of TIDs of frames that can be aggregated, the text shown in P49L1 "The value in the TID Aggregation Limit subfield in Trigger frame is less than or equal to the value indicated in the Multi-TID Aggregation Support field in the HE Capabilities element" is not valid. Further clarification is needed.	As in the comment.	2017/1/9 9:42

9832	Young Hoon Kwon	225	1 9.3.1.23.1	48	64	T	Y	48.64 9.3.1.23.1	Then, how to indicate the STA can aggregate frames from 7 different TIDs? Need further clarification.	As in the comment.	2017/1/9 9:42
9833	Young Hoon Kwon	225	1 9.3.1.23.3	50	16	T	Y	50.16 9.3.1.23.3	Table 9-24c is for Multi-STA BA variant and is not for Multi-TID BA variant. Instead, in the baseline RevMC spec., it says "The Fragment Number subfield of the Block Ack Starting Sequence Control subfield is set to 0.". Therefore, this sentence is not in line with baseline rule. It needs clarification.	As in the comment.	2017/1/9 9:42
9834	Young Hoon Kwon	225	1 9.3.1.23.4	50	43	T	Y	50.43 9.3.1.23.4	The sentence "The Trigger Dependent Common Info field is not present in the MU-RTS frame." should not be a note.	Delete "NOTE --" and adjust font size accordingly in line 43.	2017/1/9 9:42
9835	Young Hoon Kwon	225	1 9.3.1.23.4	50	57	T	Y	50.57 9.3.1.23.4	As it is already mentioned that The RU Allocation subfield in the User Info field addressed to the STA follows the same definition as described in 9.3.1.23, additional explanation is not necessary.	Delete the paragraph (line 57 - 61).	2017/1/9 9:42
9836	Young Hoon Kwon	225	1 9.3.1.23.4	51	15	T	Y	51.15 9.3.1.23.4	The sentence "The Trigger Dependent User Info field is not present in the MU-RTS frame." should not be a note.	Delete "NOTE --" and adjust font size accordingly in line 15.	2017/1/9 9:42
9837	Young Hoon Kwon	225	1 9.3.1.23.7	52	5	T	Y	52.05 9.3.1.23.7	Currently, an AP can set the CS Required subfield to 0 only if the Trigger frame solicits Ack/BA and the length is shorter than some threshold value. As the BQRP does not solicits Ack/BA frame, the CS Required subfield is supposed to be set to 1. Therefore, there's no need to mention this.	Delete the sentence "The CS Required subfield is set to 1.".	2017/1/9 9:42
9838	Young Hoon Kwon	225	1 9.4.1.62	56	45	T	Y	56.45 9.4.1.62	Current spec allows preamble puncturing for DL MU transmission. If an AP is using preamble puncturing for DL MU transmission, it is not clear how to indicate compressed beamforming measurement. Thus, further clarification is needed for BW indication for preamble puncturing.	As in the comment.	2017/1/9 9:42
9839	Young Hoon Kwon	225	1 9.4.1.62	56	47	T	Y	56.47 9.4.1.62	Wrong description. Description for RU End Index is used for describing Sounding Dialog Token Number. Correct it.	As in the comment.	2017/1/9 9:42
9840	Young Hoon Kwon	225	1 9.4.1.63	58	28	T	Y	58.28 9.4.1.63	Wrong equation referral. Correct it.	As in the comment.	2017/1/9 9:42
9841	Young Hoon Kwon	225	1 9.4.2.6	67	57	T	Y	67.57 9.4.2.6	TIM frames and FILS frames may have different meaning depending on the timing of the frame sent, and this make cause wrong interpretation from STAs. For example, if TIM frames or FILS discovery frames are received from an HE non-AP STA that don't support broadcast TWT, these STAs don't know if these frames are at the beginning of a broadcast TWT SP or not, and thus, cannot figure out correct status. It needs further clarification.	Modify the third bullet to "Bit number N in the traffic indication virtual bitmap that corresponds to a broadcast TWT scheduled HE non-AP STA with AID N is determined as follows:".	2017/1/9 9:42
9842	Young Hoon Kwon	225	1 9.4.2.6	68	2	T	Y	68.02 9.4.2.6	The first bullet is wrong. In case an AP schedules for DL transmission, but not intends to schedule UL MU transmission for a STA with bit number N, the AP shall set the bit number N to 1. But, based on current sentence, that bit is set to 0 in this case.	Modify the first bullet to "Bit number N in the traffic indicaton virtual bitmap is 0 if the AP does not intend to transmit to the STA and does not intend to trigger the STA for an UL MU transmission during the TWT SP and before the next TWT SP.".	2017/1/9 9:42
9843	Young Hoon Kwon	225	1 9.4.2.200	69	63	T	Y	69.63 9.4.2.200	It is not clear the meaning when the Wake TBTT Negotiation subfield is set to 0 or 1. Need further clarification.	As in the comment.	2017/1/9 9:42
9844	Young Hoon Kwon	225	1 9.4.2.200	73	30	E	Y	73.30 9.4.2.200	Typo: STAT -> STA	As in the comment.	2017/1/9 9:42
9845	Young Hoon Kwon	225	1 9.4.2.219	91	39	T	Y	91.39 9.4.2.219	Paragraph in line 39 - 42 needs to be deleted.	Delete the paragraph in line 39 - 42.	2017/1/9 9:42

9846	Young Hoon Kwon	225	1 10.3.2.3.7	114	32	T	Y	114.32 10.3.2.3.7	As the granularity of TXOP_DURATION parameter is coarse and the TXOP_DURATION value shall be less than or equal to actual remaining Duration value, when TXOP_DURATION value expires there's chance that packet transmission under ongoing TXOP duration is still going on, especially for the case that the most recent NAV update is based on TXOP_DURATION with granularity of 128 us. In this case, not invoking EIFS may result in high chance of packet collision. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9847	Young Hoon Kwon	225	1 10.3.2.4	115	8	T	Y	115.08 10.3.2.4	It is not clear how to check if the received PPDU is not triggered by the STA. Need further clarification.	Modify the third bullet in P115L8 to "The RXVECTOR parameter FORMAT is not HE_TRIG or the RXVECTOR parameter BSS_COLOR is different from the BSS Color of the STA.".	2017/1/9 9:42
9848	Young Hoon Kwon	225	1 10.3.2.4a	115	46	T	Y	115.46 10.3.2.4a	Description in this new sub-clause is very vague, and it does not give clear recommended behavior to AP or non-AP STA. Need further clarification.	Describe specific operation for AP and non-AP STA. Or, delete the sub-clause 10.3.2.4a.	2017/1/9 9:42
9849	Young Hoon Kwon	225	1 10.3.2.8a.1	116	3	E	Y	116.03 10.3.2.8a.1	Typo: there are two periods at the end of the sentence.	Delete one period at the end of the sentence.	2017/1/9 9:42
9850	Young Hoon Kwon	225	1 10.3.2.8a.3	117	25	T	Y	117.25 10.3.2.8a.3	As shown in 9.3.1.23.4, the RU Allocation subfield for MU-RTS frame is set to indicate P20/P40/P80/P160/80+80. In other words, once the MU-RTS is received correctly, there's no way that the RU Allocation is set to other values. In this sense, it is meaningless to add the third bullet.	Delete the third bullet.	2017/1/9 9:42
9851	Young Hoon Kwon	225	1 10.3.2.8a.3	117	32	T	Y	117.32 10.3.2.8a.3	In 2.4GHz band, non-HT PPDU may indicate not only Clause 17 PPDU but also other PPDU formats (e.g., 802.11b). So, it's better to clearly mention that the non-HT PPDU here implies Clause 17 PPDU format.	As in the comment.	2017/1/9 9:42
9852	Young Hoon Kwon	225	1 10.3.2.10.1	118	55	E	Y	118.55 10.3.2.10.1	Need a space between transmission and that.	change "transmisstionthat" to "transmission that".	2017/1/9 9:42
9853	Young Hoon Kwon	225	1 10.3.2.10.1	119	9	T	Y	119.09 10.3.2.10.1	Response to an MU-BAR frame shall use a trigger-based PPDU format. Therefore, this is not the case for this sub-clause.	Delete "or MU-BAR frame with multi-TID BAR variant" from the sentence.	2017/1/9 9:42
9854	Young Hoon Kwon	225	1 10.3.2.10.3	121	55	T	Y	121.55 10.3.2.10.3	The case "to whom the STA sent the QoS Data frame(s) with Ack Policy subfield equal to Block Ack" is not for UL MU PPDU transmission. Therefore, it's better to exclude this explanation in this subclause, as this sub-clause describes acknowledgement procedure for UL MU PPDU.	Delete ", to whom the STA sent the QoS Data frame(s) with Ack Policy subfield equal to Block Ack or" from the paragraph.	2017/1/9 9:42
9855	Young Hoon Kwon	225	1 10.7.9	124	25	T	Y	124.25 10.7.9	In 11ac, these are not applicable because these frames don't exist in 5GHz band, but 11ax can be operated in both 2.4GHz and 5GHz. HE STA may also need to support DSSS/ERP format for response frame. So, modulation class for DSSS/ERP-OFDM needs to be defined similar to 11n.	Change "N/A" in "DSSS and HR/DSSS" and "ERP-OFDM" case to the same as condi9ons in Clause 19.	2017/1/9 9:42
9856	Young Hoon Kwon	225	1 10.9	127	22	T	Y	127.22 10.9	OMI indicates operating mode for both transmit and receive.	Modify the second bullet to "A value of 1 in the Control ID subfield when the transmitting STA changes the receive or transmit operating mode, as described in 27.8 (Operating mode indication).".	2017/1/9 9:42
9857	Young Hoon Kwon	225	1 10.22.2.2	129	23	T	Y	129.23 10.22.2.2	There's no case that an MPDU requires more than one immediate response. In case of MU transmission, more than one MPDUs are carried in a PPDU, but even in case each MPDU may solicit upto 1 immediate response. So, clarification is needed here.	As in the comment.	2017/1/9 9:42

9858	Young Hoon Kwon	225	1 10.22.2.2	130	1	T	Y	130.01 10.22.2.2	The first two paragraphs are acward and meaningless. For example, transmission of a frame using trigger based PPDU is not a case for events that a STA invokes backoff procedure. (For example it is not within the conditions a) - f) shown in 10.22.2.2 of the baseline spec.). Also, it is not a case for a slot boundary. (For example, it is not within the conditions a) - f) shown in 10.22.2.4 of the baseline spec.). Therefore, based on baseline procedure, there's nothing supposed to happen in terms of backoff counter even under current baseline spec. These two paragraphs only makes confusion without having any additional clarification.	Delete the first two paragraphs or make clarification.		2017/1/9 9:42
9859	Young Hoon Kwon	225	1 10.22.2.2	130	11	T	Y	130.11 10.22.2.2	This is not appropriate sub-clause for describing the retry counter issue.	Move the paragraph to appropriate part in sub-clause 10.22.2.11.		2017/1/9 9:42
9860	Young Hoon Kwon	225	1 10.22.2.6	131	34	T	Y	131.34 10.22.2.6	As described in P131L27, this mode applies only to an AP that supports MU transmission. However, sub-clause 27.10.4 is not related with MU transmission. In this sense, this is a wrong reference.	Change the reference to an appropriate sub-clause.		2017/1/9 9:42
9861	Young Hoon Kwon	225	1 10.22.2.8	132	64	T	Y	132.64 10.22.2.8	Multiple HE trigger-based PPDU can be sent as long as all the trigger-based PPDUs are sent as immediate response to same Trigger frame. Need further clarification	As in the comment.		2017/1/9 9:42
9862	Young Hoon Kwon	225	1 10.22.2.8	133	5	E	Y	133.05 10.22.2.8	Missing article.	Trigger frame -> A Trigger frame		2017/1/9 9:42
9863	Young Hoon Kwon	225	1 10.22.2.10	133	47	T	Y	133.47 10.22.2.10	In 10.22.2.10 of the baseline spec., rule fortermination of TXOP is defined for all PPDU format cases. Here, a TXOP holder should transmit a short control frame as the final transmission in a TXOP to prevent 3rd party STA from invoking EIFS. However, in HE PPDU case, as the TXOP_DURATION is indicated in the PHY header, there's no reason to have this rule unless TXOP_DURATION field is set to all 1s. Clarification is needed for TXOP termination rule for HE PPDU format.	As in the comment.		2017/1/9 9:42
9864	Young Hoon Kwon	225	1 10.24.10.3	134	24	T	Y	134.24 10.24.10.3	It is not clear if both MU-BAR and GCR MU-BAR are allowed to request BA for GCR frames. If MU-BAR can be used, why GCR MU-BAR is additionally defined? Need further clarification.	As in the comment.		2017/1/9 9:42
9865	Young Hoon Kwon	225	1 10.28.3	136	50	T	Y	136.50 10.28.3	Non-HE STA does not solicit Multi-STA BlockAck as it is newly defined in 11ax. Therefore, if this rule is applied only to non-HE STA, we don't need to mention Multi-STA BlockAck. Also, if we define a rule for non-HE RD initiator, we also need to define a rule for HE RD initiator.	As in the comment.		2017/1/9 9:42
9866	Young Hoon Kwon	225	1 10.28.4	137	11	T	Y	137.11 10.28.4	Description is needed in case the last frame received from the RD initiator is Multi-TID A-MPDU.	As in the comment.		2017/1/9 9:42
9867	Young Hoon Kwon	225	1 10.43.1	137	42	T	Y	137.42 10.43.1	Currently TWT setup frame is defined under S1G Action frame. However, as TWT is going to be used not only for S1G STA but also for HE STA, it's better to categorize TWT setup frame in other way.	As in the comment.		2017/1/9 9:42
9868	Young Hoon Kwon	225	1 11.1.3.10	141	38	T	Y	141.38 11.1.3.10	When Beacon frames are transmitted in two PHY formats, it says one of the format shall be non-HE format. However, as baseline spec. says the beacon frame to be carried in non-HE (duplicate) format, it shall be non-HT format instead of non-HE format.	As in the comment.		2017/1/9 9:42

9869	Young Hoon Kwon	225	1 11.2.2.6	142	36	T	Y	142.36 11.2.2.6	In baseline spec., there's no More Data Ack subfield in the QoS Info field of a frame when sent by an AP. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9870	Young Hoon Kwon	225	1 11.2.2.17	143	48	T	Y	143.48 11.2.2.17	One Broadcast TWT element can have multiple broadcast TWT schedules. Therefore, even in case there'sa Broadcast TWT element included in a Beacon frame, its scheduled access can be modified at any time. In this sense, any change/modification in Broadcast TWT element may be considered as a critical update.	Change the item n) to "Inclusion or modification of a Broadcast TWT element"	2017/1/9 9:42
9871	Young Hoon Kwon	225	1 11.2.2.17	143	49	T	Y	143.49 11.2.2.17	Similar to item l), modification of the HE Operation element needs to be considered as a critical update	At the end of the paragraph, add another bullet that says "Modification of the HE Operation element".	2017/1/9 9:42
9872	Young Hoon Kwon	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	A non-AP HE STA can transmit HE MU PPDU. Therefore, receiving an HE MU PPDU by an HE AP does not guarantee that the received frame is an inter-BSS frame. Moreover, if an HE AP receives an HE MU PPDU, it can check if the received frame is an inter/intra-BSS frame by RXVECTOR BSS_COLOR, which is already mentioned in the first bullet. Therefore, adding HE MU PPDU does not need to be added here.	Delete "or an HE MU PPDU" in the last bullet.	2017/1/9 9:42
9873	Young Hoon Kwon	225	1 27.2.1	150	16	T	Y	150.16 27.2.1	If a received frame is considered to be intra-BSS frame based on the RXVECTOR parameter PARTIAL_AID, it is possible that the STA can determine that the frame is an inter-BSS frame based on the MAC address. This case needs to be clarified, too.	Modify the sentence in P150L16 to "If the received frame satisfies both intra-BSS and inter-BSS conditions, the decision made by using the MAC address takes precedence over the decision made by using the RXVECTOR parameter BSS_COLOR or PARTIAL_AID.".	2017/1/9 9:42
9874	Young Hoon Kwon	225	1 27.2.2	151	20	T	Y	151.20 27.2.2	It is not limited to the case of receiving an HE trigger-based PPDU triggered by the STA. For example, if an AP transmits an HE extended-range SU PPDU and expecting a response frame in the HE extended-range SU PPDU, the AP shall not update intra-BSS NAV by the response frame (even if the AP fails to decode the payload). Therefore, if the STA is a TXOP holder and receives an intra-BSS frame without any valid payload, the STA shall update the intra-BSS NAV based on the RXVECTOR parameter TXOP_DURATION. Clarification is needed.	As in the comment.	2017/1/9 9:42
9875	Young Hoon Kwon	225	1 27.4.1	157	21	E	Y	157.21 27.4.1	There's open paranthesis.	Modify the sentence to "... (see 10.24.7.1 (Introduction))."	2017/1/9 9:42
9876	Young Hoon Kwon	225	1 27.4.1	157	29	T	Y	157.29 27.4.1	Clarification is needed in case the AP is a member of multi-BSSID set.	As in the comment.	2017/1/9 9:42
9877	Young Hoon Kwon	225	1 27.4.1	157	45	T	Y	157.45 27.4.1	The sentence "An HE non-AP STA shall transmit a Multi-STA BlockAck frame with a single AID subfield or with the same values of the AID subfield in Per STA Info subfields and shall set the RA field to the address of the recipient STA that requested the Block Ack frame." is misleading because in P157L28 already mentioned that "An HE non-AP STA that sends a Multi-STA BlockAck frame shall set the AID subfield in the Per STA Info field of the Multi-STA BlockAck frame to 0 and the RA field to the BSSID when the intended receiver of the frame is the AP.". So, delete this sentence or clarification is needed.	As in the comment.	2017/1/9 9:42
9878	Young Hoon Kwon	225	1 27.4.1	157	48	T	Y	157.48 27.4.1	What does "each received Multi-STA" mean? Clarification is needed.	As in the comment.	2017/1/9 9:42

9879	Young Hoon Kwon	225	1 27.4.2	158	36	T	Y	158.36 27.4.2	As it is a single MPDU, it shall not be a plural.	Modify the sentence to "... and the TID field to the TID value of that MPDU to indicate ...".	2017/1/9 9:42
9880	Young Hoon Kwon	225	1 27.4.2	159	5	T	Y	159.05 27.4.2	Not sure what does "each received Multi-STA BlockAck frame" mean. For a soliciting PPDU, there's only one Multi-STA BlockAck frame available. However, the Multi-STA BlockAck frame may include multiple Per STA Info field. Clarification is needed.	As in the comment.	2017/1/9 9:42
9881	Young Hoon Kwon	225	1 27.4.2	159	8	T	Y	159.08 27.4.2	The last paragraph is identical to the description shown in sub-clause 27.4.1 (P157L49), and it does not give any additional information. Also, the second and third bullets of this paragraph is not organized properly. It's better to delete this paragraph.	Delete the last paragraph of the sub-clause 27.4.2.	2017/1/9 9:42
9882	Young Hoon Kwon	225	1 27.4.3	159	34	T	Y	159.34 27.4.3	The first two sub bullets are confusing. In case the negotiated buffer size is within [1, 64] which is also within [1, 256], the first sub bullet says it shall use bitmap size of 64, but the second sub bullet sais to use either 64 or 256. Clarification is needed. The same thing applies to the Multi-STA BlockAck frame case. Clarification is needed.	As in the comment.	2017/1/9 9:42
9883	Young Hoon Kwon	225	1 27.4.4.2	160	58	T	Y	160.58 27.4.4.2	It's better to further describe that this this rule is applied for the case that the AP solicts immediate response in SU format.	Modify the text to "A non-AP STA that receives a DL MU PPDU that solicits an immediate response in SU PPDU format shall follow the following acknowledgment procedure:".	2017/1/9 9:42
9884	Young Hoon Kwon	225	1 27.4.4.3	161	16	T	Y	161.16 27.4.4.3	It's better to further describe that this this rule is applied for the case that the AP solicts immediate response in HE trigger-based format.	Modify the text to "A non-AP STA that receives a DL MU PPDU that solicits an immediate response in an HE trigger-based PPDU format shall follow the following acknowledgment procedure:".	2017/1/9 9:42
9885	Young Hoon Kwon	225	1 27.4.4.3	161	20	T	Y	161.20 27.4.4.3	In case of a S-MPDU context, isn't it possible to have Trigger frame in the A-MPDU? Maybe not.	Modify the sentence of bullet 1) to "If the DL MU PPDU carries a S-MPDU intended to it that solicits an immediate response, and an UL MU Response Scheduling A-Control field is present, ...".	2017/1/9 9:42
9886	Young Hoon Kwon	225	1 27.4.4.3	161	22	T	Y	161.22 27.4.4.3	For bullets 2) and 3), it's better to mention a non-AP STA's behavior when the STA didn't receive Trigger frame correctly.	As in the comment.	2017/1/9 9:42
9887	Young Hoon Kwon	225	1 27.4.4.4	161	51	T	Y	161.51 27.4.4.4	In bullet 2), Multi-STA BlockAck frame has two different cases; TID set to 14 with Ack Type 1, and Ack Type 0. However, in bullet 3) it just says Multi-STA BlockAck without having any details. It would be better for bullet 2) and bullet 3) to have same level of description.	Modify the sentence of bullet 3) to "... then the HE AP shall send a Multi-STA BlockAck frame with the Ack Type field set to 1 and the TID field set to 14 or a Multi-STA BlockAck frame with the Ack Type field set to 0 carried in a DL SU PPDU format.".	2017/1/9 9:42
9888	Young Hoon Kwon	225	1 27.4.4.5	162	26	E	Y	162.26 27.4.4.5	Double periods.	Change ".." to ".".	2017/1/9 9:42
9889	Young Hoon Kwon	225	1 27.5.1.1	162	44	T	Y	162.44 27.5.1.1	What does "allocating spatial streams to more than one recipient STA" mean? Poor description, and needs rewriting.	As in the comment.	2017/1/9 9:42
9890	Young Hoon Kwon	225	1 27.5.1.1	162	53	T	Y	162.53 27.5.1.1	This sub-clause is for HE DL MU operation, however, the padding procedure shown in 27.10.3 is for HE UL MU operation. Therefore, the padding procedure mentioned here is irrelevent. Need further clarification.	As in the comment.	2017/1/9 9:42
9891	Young Hoon Kwon	225	1 27.5.1.1	162	57	T	Y	162.57 27.5.1.1	DL OFDMA With MIMO Support field is not defined in HE Capabilities element. Need definition for it.	As in the comment.	2017/1/9 9:42
9892	Young Hoon Kwon	225	1 27.5.1.3	163	29	T	Y	163.29 27.5.1.3	It is not clear how to obtain the channel availability information for each 20MHz, especially for unsolicited BQR case. For example, how to measure and when to measure the channel availability for each 20MHz is not clear. It needs further clarification.	As in the comment.	2017/1/9 9:42

9893	Young Hoon Kwon	225	1 27.5.1.3	163	43	T	Y	163.43 27.5.1.3	When a STA receives a BQRP variant Trigger frame which does not schedule an RU for the STA, it is not clear if the STA shall participate random access or not. Need further clarification.	As in the comment.	2017/1/9 9:42
9894	Young Hoon Kwon	225	1 27.5.2.1	164	24	T	Y	164.24 27.5.2.1	Class A/B is not limited to an UL OFDMA PPDU. It can be applied HE trigger-based PPDU including not only OFDMA but also MU-MIMO cases.	Modify the last paragraph of 27.5.2.1 to " A STA transmitting an UL trigger-based PPDU shall operate as either ...".	2017/1/9 9:42
9895	Young Hoon Kwon	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	Double periods.	Change ".." to ".".	2017/1/9 9:42
9896	Young Hoon Kwon	225	1 27.5.2.2.1	165	27	T	Y	165.27 27.5.2.2.1	This sentence is somewhat misleading. An AP shall ensure that the duration from the end of the User Info field to the end of the PPDU shall be longer than the maximum MinTrigProcTime value. However, how to achieve this is an AP's implementation issue, such as using EOF padding, Trigger frame padding, or both, etc. Therefore, it is not appropriate to mention that the AP shall apply the Trigger Frame MAC Padding field with duration corresponding to the longest value among all STAs... Further clarification is needed.	As in the comment.	2017/1/9 9:42
9897	Young Hoon Kwon	225	1 27.5.2.2.1	165	31	T	Y	165.31 27.5.2.2.1	How to determine the padding size for RU that is used for random access? As RU for random access channel is supposed to be located at the end of the Trigger frame, and any STA can utilize the RU for random access, additional padding requirement for random access channel seems to be more critical. For this purpose, an AP may need to indicate duration of Trigger frame MAC Padding that it provides in case random access RU is allocated, or non-AP STA's behavior may need to be defined in case the padding duration is not enough for a STA to transmit using random access channel.	As in the comment.	2017/1/9 9:42
9898	Young Hoon Kwon	225	1 27.5.2.2.2	166	10	T	Y	166.10 27.5.2.2.2	How about Trigger Dependent Common Info subfield? For example, if an AP sends GCR MU-BAR Trigger frame and MU-BAR Trigger frame together, it is not sure how to set the Trigger Dependent Common Info subfield of MU-BAR frame.	Change the txt "except the Trigger Type subfield," to "except the Trigger Type subfield and Trigger Dependent Common Info subfield,".	2017/1/9 9:42
9899	Young Hoon Kwon	225	1 27.5.2.2.2	167	6	T	Y	167.06 27.5.2.2.2	This sentence is not in line with sentence shown in P49L1, which says "The value in the TID Aggregation Limit subfield in Trigger frame is less than or equal to the value indicated in the Multi-TID Aggregation Support field in the HE Capabilities element". In my opinion, the text shown in P167L6 makes more sense than the other one. Anyway, further clarification is needed.	As in the comment.	2017/1/9 9:42
9900	Young Hoon Kwon	225	1 27.5.2.2.2	167	15	T	Y	167.15 27.5.2.2.2	The sentence is not written correctly.	Change the sentence to "The AP may assign any value defined in Table 9-25i (Preferred AC subfield encoding) in the Preferred AC subfield for an HE STA that the AC Preference level subfield in the Trigger Dependent User Info field is set to 1 and is identified by the AID12 subfield of the User Info field of a Basic Trigger frame.".	2017/1/9 9:42

9901	Young Hoon Kwon	225	1 27.5.2.2.3	167	25	T	Y	167.25 27.5.2.2.3	First of all, wrong sub-clause number: it should be 10.22.2.7 instead of 9.22.2.7. Moreover, sub-clause 10.22.2.7 describes overall multiple frame transmission in an EDCA TXOP that includes successful transmission cases and also unsuccessful transmission cases that requires another backoff or PIFS recovery. Therefore, by just mention that the same procedure is applied does not give clear description. More specifically, when an AP receives an immediate response with at least on MPDU from at least one STA solicited by a Trigger frame, it should be considered as "completion of the immediately preceding frame exchange sequence" in the context shown in 10.22.2.7. So, further description is needed.	As in the comment.		2017/1/9 9:42
9902	Young Hoon Kwon	225	1 27.5.2.2.3	167	30	E	Y	167.30 27.5.2.2.3	Wrong sub-clause number	9.22.2.2 -> 10.22.2.2		2017/1/9 9:42
9903	Young Hoon Kwon	225	1 27.5.2.2.3	167	30	T	Y	167.30 27.5.2.2.3	This sentence is not true if the AP sends more than one Trigger frame in a PPDU. For example, if the AP sends two Trigger frames and received immediate trigger-based PPDU in response to only one Trigger frame, even if the AP does not receive an immediate response with at least one MPDU from at least one STA solicited by a Trigger frame, its transmission is not failure. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9904	Young Hoon Kwon	225	1 27.5.2.3	167	54	T	Y	167.54 27.5.2.3	Transmitting a trigger-based PPDU using random access resource is also available. Need further description on this.	As in the comment.		2017/1/9 9:42
9905	Young Hoon Kwon	225	1 27.5.2.3	168	8	T	Y	168.08 27.5.2.3	27.2.2 does not describe rule on how to set TXOP_DURATION value.Need further clarification	As in the comment.		2017/1/9 9:42
9906	Young Hoon Kwon	225	1 27.5.2.3	168	46	E	Y	168.46 27.5.2.3	"shall be set to" is mentioned twice in a sentence	Delete one of "shall be set to" in the sentence		2017/1/9 9:42
9907	Young Hoon Kwon	225	1 27.5.2.3	168	51	E	Y	168.51 27.5.2.3	"shall be set to" is mentioned twice in a sentence	Delete one of "shall be set to" in the sentence		2017/1/9 9:42
9908	Young Hoon Kwon	225	1 27.5.2.3	169	23	T	Y	169.23 27.5.2.3	27.2.2 does not describe rule on how to set TXOP_DURATION value.Need further clarification	As in the comment.		2017/1/9 9:42
9909	Young Hoon Kwon	225	1 27.5.2.3	169	29	T	Y	169.29 27.5.2.3	It is not clear how to set TXVECTOR HE_SIGA_RESERVED as UL MU Response Scheduling A-Control subfield does not include this information. Needs clarification	As in the comment.		2017/1/9 9:42
9910	Young Hoon Kwon	225	1 27.5.2.3	169	18	T	Y	169.18 27.5.2.3	In case of SR_Disallowed setting, only SRP-based spatial reuse is disallowed, which implies that OBSS_PD based SR operation is still allowed. As NDP frame is used for channel measurement, not only SRP based spatial reuse but also OBSS_PD based spatial reuse shall be disallowed. In this sense, it's better to set to "SR_delayed" as no spatial reuse operation will be allowed during the PPDU duration.	Change the sentence to "SPATIAL_REUSE shall be set to the value indicating SR_Delayed".		2017/1/9 9:42

9911	Young Hoon Kwon	225	1 27.5.2.4	170	23	T	Y	170.23 27.5.2.4	In sub-clause 21.3.18.5.2, ED-based CCA channel status decision is made for channels of Primary 20MHz, Secondary 20MHz, Secondary 40MHz, and Secondary 80MHz only. However, for trigger-based PPDU transmission, the ED-based CCA channel status decision needs to be done only for those 20MHz channels thar RU is assigned for a STA. Therefore, we cannot just follow ED-based CCA rule defined in 21.3.18.5.2. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9912	Young Hoon Kwon	225	1 27.5.2.4	170	29	T	Y	170.29 27.5.2.4	It is misleading. For a STA that is solicited by a Trigger frame needs to consider NAV if CS_Required bit is set to 1 in the Trigger frame and will not consier NAV if CS_Required bit is set to 0. So, the first bullet should be th AP's behavior on when to set the CS_Required bit to 1.	Change the first bullet to "The CS Required subfield in the Trigger frame is set to 1."		2017/1/9 9:42
9913	Young Hoon Kwon	225	1 27.5.2.4	170	31	T	Y	170.31 27.5.2.4	This is wrong. The STA may ignore intra-NAV but still needs to repect basic NAV. Therefore, even though NAV was set by an intra-BSS frame (intra-NAV is set), if there's non. zero basic NAV, the STA shall consider NAV.	Change the second bullet to "The basic NAV has non-zero value.".		2017/1/9 9:42
9914	Young Hoon Kwon	225	1 27.5.2.4	170	37	T	Y	170.37 27.5.2.4	It needs further clarification that even though virtual CS is busy, the STA is allowed to transmit if basic NAV is zero.	As in the comment.		2017/1/9 9:42
9915	Young Hoon Kwon	225	1 27.5.2.5	171	19	T	Y	171.19 27.5.2.5	As reporting the buffer status for a given TID in the Queue Size subfield is a mandatory feature, bit 4 of QoS Control field shall be set to 1, which implies that bits 8-15 of the QoS Control field represents Queue Size.	At the end of the 2nd paragraph of 10.13.1, add the following text: "HE non-AP STA shall set the bit 4 to1 across all MPDUs that contain the Qos Control fields."		2017/1/9 9:42
9916	Young Hoon Kwon	225	1 27.5.2.5	171	57	T	Y	171.57 27.5.2.5	When a STA receives a BSRP variant Trigger frame which does not schedule an RU for the STA, it is not clear if the STA shall participate random access or not. Need further clarification.	As in the comment.		2017/1/9 9:42
9917	Young Hoon Kwon	225	1 27.5.2.5	172	6	T	Y	172.06 27.5.2.5	If the AP does not support the A-BSR Support subfield, it shall not send BSRP variant Trigger frame. Therefore, "when the AP indicated its support..." is meaningless.	Delete "when the AP has indicated its support in the A-BSR Support subfield of its HE Capabilities element" in the second sub-bullet.		2017/1/9 9:42
9918	Young Hoon Kwon	225	1 27.5.2.6.2	173	30	T	Y	173.30 27.5.2.6.2	What does "initial HE trigger-based PPDU transmission" mean? If this implies the first HE trigger-based PPDU transmission within a TXOP of the serving AP, it means that OCW is reset for every TXOP, which may not be the preferred operation. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9919	Young Hoon Kwon	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	It is not clear if an HE STA is allowed to participate in random access procedure even in case the HE STA does not have anything to transmit. For example, if the HE STA keeps decreasing the OBO counter by participating random access procedure even in case the STA does not have anything to transmil, the STA may get advantage when the STA has something to transmit because the STA may use smaller OBO counter value. This is a cheating and shouldn't be allowed. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9920	Young Hoon Kwon	225	1 27.5.2.7	174	24	T	Y	174.24 27.5.2.7	APs and non-AP STAs behavior for NDP feedback report procedure shall be defined clearly.	As in the comment.		2017/1/9 9:42

9921	Young Hoon Kwon	225	1 27.5.3	174	37	T	Y	174.37 27.5.3	Definition of a cascading sequence of MU PPDUs in a TXOP is not clear. It says "allowing alternating HE MU PPDUs and HE trigger-based PPDUs starting with an HE MU PPDU in the same TXOP". If this defines the cascaded sequence, DL MU transmission that solicits immediate response is also a cascading sequence as it has the sequence of DL MU PPDU followed by UL trigger based PPDU. If this is the case, DL MU transmission that solicits immediate response is allowed only if MU Cascading Support field in the HE Capabilities element is set to 1, which does not make sense. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9922	Young Hoon Kwon	225	1 27.5.3	175	32	T	Y	175.32 27.5.3	In P174L37, it says "alternating HE MU PPDUs and HE trigger-based PPDUs starting with an HE MU PPDU in the same TXOP". It implies that cascading sequence starts from DL MU PPDU. However, in P175L33, it says "An HE MU PPDU transmitted by the AP a SIFS after an HE trigger-based PPDU has the following AMPDU contents", which implies that DL MU PPDU follows UL trigger-based PPDU. These two sentences are not clearly in line with each other. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9923	Young Hoon Kwon	225	1 27.6.2	176	17	T	Y	176.17 27.6.2	Does this mean that an HE STA is not allowed to initiate VHT sounding sequnce? Further clarification is needed.	Modify the text to "The HE beamformer shall initiate an HE sounding sequence by transmitting an HE NDP Announcement frame followed by an HE NDP after a SIFS.".		2017/1/9 9:42
9924	Young Hoon Kwon	225	1 27.6.2	176	30	T	Y	176.30 27.6.2	If the NDPA frame has only one STA Info field, Ng, codebook, and Nc subfield in NDPA frame shall be reserved.	Insert the following text at the end of 9,3,1,20: "If the HE NDP Announcement frame contains only one STA Info field, Feedback Type and Ng subfield and Nc subfield are reserved.".		2017/1/9 9:42
9925	Young Hoon Kwon	225	1 27.6.2	177	1	T	Y	177.01 27.6.2	There's no separate Ng field. And, current Feedback Type and Ng subfield includes available Ng values for MU type feedback to be 4 and 16 only. Therefore, this sentence does not have any meaning.	Delete the text "An HE beamformer that sets the Feedback Type subfield of the STA Info field to MU shall set the Ng field value in the STA Info field of the HE NDP Announcement frame to either 0 (for Ng = 4) or 1 (for Ng = 16).".		2017/1/9 9:42
9926	Young Hoon Kwon	225	1 27.6.2	177	26	T	Y	177.26 27.6.2	Channel width information in Operation Mode Notification frame also needs to be considered for both starting RU index and ending RU index, similar to second bullet in P176L50.	As in the comment.		2017/1/9 9:42
9927	Young Hoon Kwon	225	1 27.6.2	177	35	T	Y	177.35 27.6.2	There's no separate Ng field. Also, as shown in Table 9-25a, Feedback Type and Ng subfield and Codebook Size subfield are jointly encoded. Therefore, it's better to say that these two subfields are reserved in an HE NDPA frame has only one STA Info field.	As in the comment.		2017/1/9 9:42
9928	Young Hoon Kwon	225	1 27.6.2	178	12	T	Y	178.12 27.6.2	In Figure 27-4, the brace on the bottom (saying "0..N times") shall include SIFS in front of the Trigger.	Modify the figure as in the comment		2017/1/9 9:42
9929	Young Hoon Kwon	225	1 27.6.2	178	32	T	Y	178.32 27.6.2	Also, CQI-only feedback needs to be added.	As in the comment.		2017/1/9 9:42
9930	Young Hoon Kwon	225	1 27.6.4	179	37	T	Y	179.37 27.6.4	By definition there's no PSDU in an NDP frame. Therefore, there's no TA/RA/SA/DA for the NDP frame. I don't understand what does "destination" or "source" of an HE NDP imply in these two sentences. Considering spec. text shown in baseline spec., these two sentences do not have any information.	Delete the last two paragraphs in 27.6.4.		2017/1/9 9:42

9931	Young Hoon Kwon	225	1 27.7.2	180	18	T	Y	180.18 27.7.2	It is not clear what "shall negotiate individual TWT agreements" mean if TWT Required subfield is set to 1. Negotiation does not imply active individual TWT agreement. For example, during the negotiation, it is possible that responding STA may not Accept TWT. So, further clarification is needed on what each STA needs to do if TWT Required subfield is set to 1.	As in the comment.		2017/1/9 9:42
9932	Young Hoon Kwon	225	1 27.7.2	180	41	T	Y	180.41 27.7.2	Definition of trigger enabled TWT may need to be present before its description, or at least reference number for operation on trigger enabled TWT may need to be inserted here.	As in the comment.		2017/1/9 9:42
9933	Young Hoon Kwon	225	1 27.7.2	181	14	T	Y	181.14 27.7.2	What will be TWT requesting STA's behavior for trigger-enabled TWT SP which is an announced TWT SP? Transmission of PS-Poll or APSD trigger frame is considered as initiating transmission of frames, current texts may not be well in line with each other. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9934	Young Hoon Kwon	225	1 27.7.2	182	6	T	Y	182.06 27.7.2	Event shown in 1) only implies that the AP will not schedule any UL MU transmission during remaining TWT SP, and it does not give any information on DL transmission. Therefore, the event 1) does not prohibit an AP from sending DL transmission during the TWT SP. Then, it is not sure how can a STA go to doze state with event 1)? Further clarification is needed.	As in the comment.		2017/1/9 9:42
9935	Young Hoon Kwon	225	1 27.7.3.3	185	55	T	Y	185.55 27.7.3.3	Event shown in 1) only implies that the AP will not schedule any UL MU transmission during remaining TWT SP, and it does not give any information on DL transmission. Therefore, the event 1) does not prohibit an AP from sending DL transmission during the TWT SP. Then, it is not sure how can a STA go to doze state with event 1)? Further clarification is needed.	As in the comment.		2017/1/9 9:42
9936	Young Hoon Kwon	225	1 27.7.3.3	185	62	T	Y	185.62 27.7.3.3	The last sentence should be written as the third event for termination. Therefore, it should be enumerated as 3). Also, "TWT responding STA" need to be changed to "TWT scheduling STA".	As in the comment.		2017/1/9 9:42
9937	Young Hoon Kwon	225	1 27.8.2	189	8	E	Y	189.08 27.8.2	Wrong grammar.	Modify the sentence to "After transmitting an immediate acknowledgement for the frame containing the OMI A-Control field, ...".		2017/1/9 9:42

9938	Young Hoon Kwon	225	1 27.8.3	189	26	T	Y	189.26 27.8.3	Main purpose of including Tx NSS in OMI is to use less number of Tx RF chains for power savings. However, different from Rx NSS, the number of Tx RF chains is more closely related with the number of space-time streams (N_STS) compared to the number of spatial streams (N_SS). For example, even in case a STA indicates Tx NSS to be 1, an serving AP can still allocate the STA single spatial stream with STBC, which requires at least two transmit RF chains to be turned on. Because this is still possible, even if a STA supporting STBC indicates Tx NSS = 1 to the serving AP, the STA shall have at least two Tx RF chains on, which defeats the original purpose of having Tx NSS subfield in OMI. For this issue, a simple remedy is to change Tx NSS subfield to indicate the maximum number of space-time streams (N_STS) and modify the related operation accordingly.	As in the comment.		2017/1/9 9:42
9939	Young Hoon Kwon	225	1 27.8.3	189	54	T	Y	189.54 27.8.3	This bullet is misleading. For example, if an OMI initiator sets the Channel Width to 20MHz, and the serving AP allocates this STA for UL trigger-based PPDU transmission for RU size that is less than 20MHz but is in the secondary 20MHz channel (let us assume that the trigger frame is carried in non-HT duplicated frame and the STA received only the primary 20MHz channel), the STA may not be available to transmit the frame unless the STA switches its transmission center frequency during SIFS time, which is not a normal operation. So, further clarification is needed.	As in the comment.		2017/1/9 9:42
9940	Young Hoon Kwon	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	Is it a sub-cluase name? If this is an sub-clause name, make it as a sub-clause name. If not, delete this sentence.	As in the comment.		2017/1/9 9:42
9941	Young Hoon Kwon	225	1 27.9.2.1	190	53	T	Y	190.53 27.9.2.1	In case of SR delay, as the PHYCCARESET.request primitive is issued at the end of the PPDU, it is quite straight-forward that a STA may resume its backoff procedure after the end of the PPDU if CCA is idle. This is also described in the last paragraph in page 190 again. Therefore, this sentence does not give any further information and is just redundant. It's better to delete this sentence. Same thing goes to following "NOTE".	As in the comment.		2017/1/9 9:42
9942	Young Hoon Kwon	225	1 27.9.2.1	190	59	T	Y	190.59 27.9.2.1	To make the process clearer, it's better to mention one step further details. For example, when PHY sublayer receives a PHY-CCARESET.request frimitive and performs CCA, the PHY sublayer sends PHY-CCARESET.confirm primitive before sending PHY-CCA.indication primitive.	Modify the paragraphs to "If an HE STA's MAC sublayer issues a PHY-CCARESET.request primitive and not update its NAV timer as allowed above, the HE STA's PHY sublayer issues a PHY-CCARESET.confirm primitive and the HE STA may resume its backoff procedure when the medium condition is IDLE as defined in 10.22.2.2 (EDCA backoff procedure).".	2017/1/9 9:42
9943	Young Hoon Kwon	225	1 27.9.2.1	190	48	T	Y	190.48 27.9.2.1	3dB deboost needs to be considered not only for OBSS_PD based spatial reuse but also for SRP-based spatial reuse. Further clarification is needed.	As in the comment.		2017/1/9 9:42
9944	Young Hoon Kwon	225	1 27.9.2.2	191	62	T	Y	191.62 27.9.2.2	There's no description on OBSS_PD_{min/max_default}. Please clarifiy these variables.	As in the comment.		2017/1/9 9:42

9945	Young Hoon Kwon	225	1 27.9.2.2	192	1	T	Y	192.01 27.9.2.2	the term "antenna connector" is used quite many times throughout the spec. without any confusion. Thus, this NOTE is meaningless.	Delete the sentence.	2017/1/9 9:42
9946	Young Hoon Kwon	225	1 27.9.2.2	192	11	T	Y	192.11 27.9.2.2	TXPWR_max is unconstraind if OBSS_PD_level is equal to or less than OMBSS_PD_min.	Change the condition for unconstrained case of equation 27-1 as "if OBSS_PD_{level} <= OBSS_PD_{min}".	2017/1/9 9:42
9947	Young Hoon Kwon	225	1 27.9.2.2	192	20	T	Y	192.20 27.9.2.2	If a STA regards an inter-BSS PPDU as not having been received at all using a specific transmission power and resumes backoff process, it is not clear if the STA is allowed to increase the transmission power. If the increase of the transmission power is allowed, the STA may use the lowest transmission power during the backoff process to have more chance of SR transmission and then increases the transmission power right before the backoff reaches zero. This may give unfair competition and shall not be allowed. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9948	Young Hoon Kwon	225	1 27.10.4	194	26	T	Y	194.26 27.10.4	Clarification is needed in case the soliciting Trigger frame is not the Basic Trigger variant.	As in the comment.	2017/1/9 9:42
9949	Young Hoon Kwon	225	1 27.10.4	195	6	T	Y	195.06 27.10.4	Not sure the difference between this paragraph and the previous paragraph. In other words, when "should" is used and when "may" is used for the same Trigger frame setting. Further clarification is needed, or delete this paragraph.	As in the comment.	2017/1/9 9:42
9950	Young Hoon Kwon	225	1 27.10.4	195	12	T	Y	195.12 27.10.4	This sentence is somewhat misleading. The aggregation rule depends on Preferred AC subfield and AC Preference Level subfield. But, this sentence just generalize the aggregation rule. Therefore, without further clarification, this sentence only makes the non-AP STA's behaviour vague and unclear. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9951	Young Hoon Kwon	225	1 27.10.4	195	15	T	Y	195.15 27.10.4	This sentence is duplicate with paragraph in P194L51.	Delete the sentence in P195L15.	2017/1/9 9:42
9952	Young Hoon Kwon	225	1 27.10.4	195	26	T	Y	195.26 27.10.4	This sentence is misleading. The behaviour mentioned is under the condition that AC Preference Level subfield is set to 1.	Modify the sentence to "An HE STA with dot11AMPDUwithMultipleTIDOptionImplemented set to false should select any one of the TID value within the AC value indicated in the Preferred AC subfield if AC Preference Level subfield is 1 in the Trigger Dependent User Info field of a Basic Trigger variant Trigger frame.".	2017/1/9 9:42
9953	Young Hoon Kwon	225	1 27.11.4	197	27	T	Y	197.27 27.11.4	Not clear what "The HE non-AP STA may use the BSS color" means. Does this imply that the HE non-AP STA may include the BSS color in its own HE PPDU transmission? Or, does this imply the STA may update intra-BSS NAV or go to power save mode when the STA receives a PPDU with the BSS color? More clarification is needed.	As in the comment.	2017/1/9 9:42
9954	Young Hoon Kwon	225	1 27.11.6	198	22	T	Y	198.22 27.11.6	There are 16 entries in SPATIAL_REUSE parameter. However, only 1 entry (SR_Delay or SR_Restricted) in this sub-clause. And, there's no description for other entries throughout this draft spec. It needs further clarification on when to use and how to use other entries.	As in the comment.	2017/1/9 9:42

9955	Young Hoon Kwon	225	1 27.13	199	60	T	Y	199.60 27.13	There's no description on how link adaptation using the HE variant HT Control field works. For example, it is not clear when to send the feedback, how to figure out the reference frame for the measurement, etc. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9956	Young Hoon Kwon	225	1 27.14.2	199	60	T	Y	199.60 27.14.2	Not sure how an HE AP indicate the start times for Trigger frames. Even within a Trigger-enabled TWT SP, the AP does not specifically indicate the start time of each Trigger frame, if I remember correctly. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9957	Young Hoon Kwon	225	1 27.14.2	200	32	T	Y	200.32 27.14.2	Even when Cascade Indication field is set to 0 and there's non-zero OBO counter, the STA cannot go to doze state because there's still a chance that the serving AP may send DL data to the STA. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9958	Young Hoon Kwon	225	1 27.14.2	200	20	T	Y	200.20 27.14.2	When an HE STA receives a Probe Response frame with broadcast TWT element, the STA can participate in the random access based operation. Therefore, it'd be better if the description includes not only for associated STAs but also for unassociated STAs. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9959	Young Hoon Kwon	225	1 27.14.3.1	201	1	T	Y	201.01 27.14.3.1	This can not be a "shall" sentence. For example, what if the buffered traffic is expired and dequeued before the start of the next TWT SP? For the non-AP STA, regardless the STA is served or not during one TWT SP, the STA will wake up and check the TIM element in the subsequent TWT SP. And, the STA will figure out if there's RU scheduled for the STA or not based on the TIM information. How to set or how to schedule each STA is totally the serving AP's implementation issue. If spec. strongly recommend the AP to serve this STA in the subsequent TWT SP, it can be at most "should" sentence.	As in the comment.	2017/1/9 9:42
9960	Young Hoon Kwon	225	1 27.14.3.2	201	7	T	Y	201.07 27.14.3.2	Actual transmission time of TIM frame can be different from target start time of a broadcast TWT SP due to lots of reasons. (One example is that wireless medium is busy at the start of the broadcast TWT SP.) Therefore, when a STA receives a TIM frame, there's no guarantee that it is sent at the beginning of a broadcast TWT SP. And, as the meaning of TIM element is different based on this, the protocol is not complete enough. Further clarification is needed.	As in the comment.	2017/1/9 9:42
9961	Young Hoon Kwon	225	1 27.15.2	201	28	T	Y	201.28 27.15.2	It is not clear in which case a non-AP STA can transmit HE MU PPDU. Need clarification	As in the comment.	2017/1/9 9:42
9962	Young Hoon Kwon	225	1 27.15.2	201	38	T	Y	201.38 27.15.2	There's no UL MU PPDU Support field defined in HE Capabilities element. Need further clarification.	As in the comment.	2017/1/9 9:42
9963	Young Hoon Kwon	225	1 27.15.2	201	57	T	Y	201.57 27.15.2	This behaviour is for responder. It is not clear how can a responder know if the most recent PPDU sent by the responding STA to the soliciting STA is successful or not. Needs further clarification.	As in the comment.	2017/1/9 9:42

9964	Young Hoon Kwon	225	1 27.15.2	202	1	T	Y	202.01 27.15.2	Based on this rule, once a responder uses ER SU PPDU format for control response frame, it shall use ER SU PPDU format forever, even if the channel condition becomes better or the responder approaches to the soliciting STA. (Even if the frame transmission fails, as ER SU PPDU format is the lowest MCS, there's no reason to switch back to non-HT frame format.) I think it's better to give a chance for the responder to switch back to non-HT PPDU format if channel conditions becomes better.	As in the comment.		2017/1/9 9:42
9965	Young Hoon Kwon	225	1 27.15.3	202	21	T	Y	202.21 27.15.3	Control response frame in response to an ER SU PPDU can be either ER SU PPDU or non-HT PPDU format based on 27.15.2. <MCS0, 1> is only applicable to ER SU PPDU. Further clarification is needed if the control response frame is using non-HT PPDU format.	As in the comment.		2017/1/9 9:42
9966	Young Hoon Kwon	225	1 27.15.3	202	53	T	Y	202.53 27.15.3	Based on this rule, once a responder uses DCM or 106-tone, it needs to use it forever even though channel conditions becomes better. I think it's better to give a chance for the responder to switch back to DCM-off or 242 tone format.	As in the comment.		2017/1/9 9:42
9967	Young Hoon Kwon	225	1 27.16.1	204	56	T	Y	204.56 27.16.1	How about 20MHz-only STA? Need further clarification.	As in the comment.		2017/1/9 9:42
9968	Young Hoon Kwon	225	1 28.2.2	214	37	T	Y	214.37 28.2.2	In 2.4GHz band, legacy format needs to include non-OFDM frame format. So, NON_HT format needs to include PPDU formats in Clause 15, 16, 17, and 18.	Modify the value description for NON_HT to: "NON_HT indicates Clause 15, Clause 16, Clause 17, or Clause 18 PPDU formats or non-HT duplicate PPDU format. In this case, the modulation is determined by the NON_HT_MODULATION parameter.".		2017/1/9 9:42
9969	Yuchen Guo	225	1 9.3.1.23	45	36	T	Y	45.36 9.3.1.23	Random access RUs have to be allocated one by one by setting AID12 field to 0. If plenty of random access RUs need to be allocated, then lots of user info fields are needed, which is a large overhead.	Devise a mechanism to allocate multiple random access RUs in an efficient way.		2017/1/9 9:42
9970	Yuchen Guo	225	1 9.4.1.62	57	46	T	Y	57.46 9.4.1.62	Definition error for the sounding dialog token number	Add a correct explanation for the sounding dialog token number		2017/1/9 9:42
9971	Yuchen Guo	225	1 9.4.2.200	70	4	T	Y	70.04 9.4.2.200	The expression "The Wake TBTT Negotiation subfield is set to 0 in TWT elements transmitted by a responding STA and by a scheduling STA." is not correct. When the TWT scheduling STA transmits a TWT response frame as a response to a TWT request frame in the negotiation procedure of wake TBTT and listen interval, The value of the Wake TBTT Negotiation subfield should be equal to 1.	The Wake TBTT Negotiation subfield is set to 1 in TWT elements transmitted by a responding STA and by a scheduling STA in the negotiation procedure of wake TBTT and listen interval, and set to 0 otherwise.		2017/1/9 9:42
9972	Yuchen Guo	225	1	137	33	T	Y	137.33	The explicit TWT related expressions should be deleted since the implicit subfield shall be set to 1 during the TWT setup procedure	As per comment		2017/1/9 9:42
9973	Yuchen Guo	225	1	138	7	E	Y	138.07	"with ... don't care" is not a formal expression	delete "with ... don't care"		2017/1/9 9:42
9974	Yuchen Guo	225	1 27.3.3.4	155	5	E	Y	155.05 27.3.3.4	Editorial: another ")" should be added at the end of the sentence	As per comment		2017/1/9 9:42
9975	Yuchen Guo	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	The MU transmission procedure for unassociated STAs is not defined	Define a procedure for unassociated STAs		2017/1/9 9:42
9976	Yuchen Guo	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	Editorial: add "." After "AID value 0"	As per comment		2017/1/9 9:42
9977	Yuchen Guo	225	1 27.5.2.6.2	173	52	E	Y	173.52 27.5.2.6.2	Editorial: change "decrements" to "decrement"	As per comment		2017/1/9 9:42
9978	Yuchen Guo	225	1 27.7.1	180	2	E	Y	180.02 27.7.1	"requester STA" should be "requesting STA"	As per comment		2017/1/9 9:42

9979	Yuchen Guo	225	1 27.7.3.2	185	23	T	Y	185.23 27.7.3.2	In the case of broadcast TWT, TWT scheduled STAs do not know which Beacon frame contains a TWT IE, hence they have to read every Beacon in order not to miss any TWT IE, which is not power efficient	Devise a scheme for TWT scheduled STAs to receive Beacon frames for the TWT IEs	2017/1/9 9:42
9980	Yuchen Guo	225	1 27.7.3.3	185	39	T	Y	185.39 27.7.3.3	Is the TWT scheduled STA in PS mode? If not, it seems not reasonable to suggest a TWT scheduled STA that is in the active mode not to transmit outside of broadcast TWT SP	Add "that is in PS mode" after "TWT scheduled STA"	2017/1/9 9:42
9981	Yuchen Guo	225	1 27.7.3.4	187	8	E	Y	187.08 27.7.3.4	10.44.8 does not exist in this draft	Define TWT Teardown procedure in 11ax	2017/1/9 9:42
9982	Yuchen Guo	225	1 27.7.4	187	46	E	Y	187.46 27.7.4	10.43.4 does not exist in this draft	Add implicit TWT operation	2017/1/9 9:42
9983	Yuichi Morioka	225	1 9.2.4.6	21	25	E	N	21.25 9.2.4.6	The name "HT Control Field" is misleading, as it now contains HE information. Change the name to Extension Control Field.	Change "HT Control" Field to "Extension Control" Field.	2017/1/9 9:42
9984	Yuichi Morioka	225	1 9.2.4.6.4.1	22	52	T	N	22.52 9.2.4.6.4.1	The smallest Aggregated Control subfield is 4(Control ID)+8 (Control Info)= 12 bits.	Change "4 or more" to "12 or more".	2017/1/9 9:42
9985	Yuichi Morioka	225	1 9.2.4.5.4.1	22	61	T	N	22.61 9.2.4.5.4.1	"The Control Subfield with Control ID subfield equal to 0,...". Is this restriction necessary?	Remove the restriction if it is not necessary.	2017/1/9 9:42
9986	Yuichi Morioka	225	1 9.2.4.5.4.1	23	44	T	N	23.44 9.2.4.5.4.1	Why does the A-Control subfield need to be rounded up to 30 bits if it is less than 30 bits?	Remove sentence starting with "The Padding subfield, if present, follows ..." if there is no reason for the rounding up.	2017/1/9 9:42
9987	Yuichi Morioka	225	1 9.2.4.5.4.2	24	24	E	N	24.24 9.2.4.5.4.2	The note is more appropriate in subclause 27.5.2.3 UL MU Operation.	Move the note to subclause 27.5.2.3	2017/1/9 9:42
9988	Yuichi Morioka	225	1 9.2.5.2	31	11	E	N	31.11 9.2.5.2	"required for" should be changed to "required to transmit" as with other bullets.	as suggested	2017/1/9 9:42
9989	Yuichi Morioka	225	1 9.3.1.23	41	59	E	N	41.59 9.3.1.23	missing space after "...of the recipient STA."	add space.	2017/1/9 9:42
9990	Yuichi Morioka	225	1 9.3.1.23	41	61	T	N	41.61 9.3.1.23	The sentence "If the Trigger Type field is GCR-MU BA, ..." may contradict with the previous two sentences.	add "If the Trigger Type field is not GCR-MU BA and" to the previous two sentences.	2017/1/9 9:42
9991	Yuichi Morioka	225	1 9.3.1.23	42	51	T	Y	42.51 9.3.1.23	AP should be allowed to trigger CF_End frame transmission from multiple STAs, to cancel over-reserved NAV set by MU-RTS.	Replace p.42 line 51 "7-15 Reserved" with "7 MU-CF_End" and add in the next line "8-15 Reserved"	2017/1/9 9:42
9992	Yuichi Morioka	225	1 9.3.1.23	42	61	T	N	42.61 9.3.1.23	"...follows the current Trigger frame.". This implies that the Trigger frames are sent back to back. Is this the intent?	Change "follows the current Trigger frame" with "will be transmitted".	2017/1/9 9:42
9993	Yuichi Morioka	225	1 9.3.1.23	44	21	E	N	44.21 9.3.1.23	mixed use of "HE trigger-based PPDU response" and "HE trigger-based PPDU that is the response to the Trigger frame".	Unify to either terminology.	2017/1/9 9:42
9994	Yuichi Morioka	225	1 9.3.1.23	44	65	T	N	44.65 9.3.1.23	"For 20MHz one SR field..." Unclear what is 20MHz.	Replace "For 20MHz" with "If the BW subfield is set to 0,". Same for other bandwidths.	2017/1/9 9:42
9995	Yuichi Morioka	225	1 9.3.1.23	45	11	T	N	45.11 9.3.1.23	"The Doppler subfield..." Unclear how to set the field.	Replace with "The Doppler subfield is set to 1 if..."	2017/1/9 9:42
9996	Yuichi Morioka	225	1 9.3.1.23	45	37	E	N	45.37 9.3.1.23	missing space after "...RU for random access."	add space.	2017/1/9 9:42
9997	Yuichi Morioka	225	1 9.3.1.23	45	37	T	N	45.37 9.3.1.23	"User Info fields with AID = 0..." There is no AID field in the User Info fields.	change AID to AID12	2017/1/9 9:42
9998	Yuichi Morioka	225	1 9.3.1.23	45	38	T	N	45.38 9.3.1.23	"before the MAC padding field" This rule is common for AID12 not equal to 0. The rule is self explanatory from the figure 9-52c - Trigger frame.	Remove last part of the sentence starting ,", and before the MAC padding..."	2017/1/9 9:42
9999	Yuichi Morioka	225	1 9.3.1.23	46	33	E	N	46.33 9.3.1.23	"B19-B13 are 0000000 indicates..." Incorrect English.	Correct English. Similar language in the following two bullets.	2017/1/9 9:42
10000	Yuichi Morioka	225	1 9.3.1.23	46	46	E	N	46.46 9.3.1.23	"Set to 0 for BCC..." incomplete sentence.	Complete sentence	2017/1/9 9:42
10001	Yuichi Morioka	225	1 9.3.1.23	47	45	E	N	47.45 9.3.1.23	colon (:) should be a period (.)	as commented.	2017/1/9 9:42
10002	Yuichi Morioka	225	1 9.3.1.23.1	49	7	T	N	49.07 9.3.1.23.1	recommendation is useless. Either remove the recommendation or change it to a requirement.	as commented.	2017/1/9 9:42
10003	Yuichi Morioka	225	1 9.3.1.23.4	50	28	E	N	50.28 9.3.1.23.4	"The RA field of the MU-RTS frame..." and "NOTE - The TA field..." are duplicate of what is mentioned in page 41, line 59.	remove duplicate.	2017/1/9 9:42
10004	Yuichi Morioka	225	1 9.3.1.23.4	50	33	E	N	50.33 9.3.1.23.4	"The Trigger Type subfield..." Already defined in page 42 line 45.	remove duplicate.	2017/1/9 9:42

10005 Yuichi Morioka	225	1 27.2.2	150	24	T	Y	150.24 27.2.2	The specification shall allow for more than two NAVs to be managed.i.e. maintain a NAV per OBSS, in order to avoid inter-BSS collision when there are more than one OBSS.	Define an option where STA maintains NAVs per BSS/OBSS.		2017/1/9 9:42
10006 Yuichi Morioka	225	1 27.2.2	150	24	T	Y	150.24 27.2.2	In order to allow efficient spatial reuse, the specification should define a mechanism where the a STA may transmit at lowered power during NAV set by OBSS, based on the reception power of the inter-BSS PPDU.	Expand the current OBSS-PD mechanism so MAC level spatial reuse can be realized. The commenter is willing to provide details of the resolution.		2017/1/9 9:42
10007 Yuichi Morioka	225	1 27.2.1	150	61	T	Y	150.61 27.2.1	Any response frame (such as ACK/BA/CTS) sent by associated AP in legacy PPDU doesn't meet this condition, therefore third party STAs which can't receive the UL PPDU frame will not be able to update the intra NAV.	Define a way to convey BSS Color information for legacy PPDUs.		2017/1/9 9:42
10008 Yuichi Morioka	225	1 27.4.1	157	34	E	N	157.34 27.4.1	What is difference between "rate" and "MCS" ?	Remove the word "rate".		2017/1/9 9:42
10009 Yuichi Morioka	225	1 27.4.4.2	160	61	T	Y	160.61 27.4.4.2	Any response frame (such as ACK/BA/CTS) sent by associated AP in legacy PPDU doesn't meet this condition, therefore third party STAs which can't receive the UL PPDU frame will not be able to update the intra NAV.	Modify the condition in L1P150 as follows. - The frame is identified as inter-BSS or cannot be identified as intra-BSS or inter-BSS with the condition that received power is less than OBSS-PD according to the rule described in 27.2.1 (Intra-BSS and inter-BSS frame detection) Modify the condition in L53P149 as follows. - The frame is identified as intra-BSS or cannot be identified as intra-BSS or inter-BSS with the condition that received power is higher than OBSS-PD according to the rule described in 27.2.1 (Intra-BSS and inter-BSS frame detection)		2017/1/9 9:42
10010 Yuichi Morioka	225	1 27.5.2.2.1	164	46	T	Y	164.46 27.5.2.2.1	Non-associated STAs shouldn't be able to transmit at random access.	If Trigger Frame which STA receives doesn't have associated AP's TA, STA should disregard this frame.		2017/1/9 9:42
10011 Yuichi Morioka	225	1 27.5.2.4	167	51	T	Y	167.51 27.5.2.4	When STA sets the basic NAV and then receives Trigger Frame in CS required bit = 1, STA can't transmit MU PPDU. This may create inefficiency.	Add texts as follow. Upon reception of a Trigger Frame with CS Required bit = 1, if the reception power of the PPDU that set the basic NAV is lower than the OBSS-PD threshold, the STA may ignore the basic NAV and transmit an UL PPDU.		2017/1/9 9:42
10012 Yuichi Morioka	225	1 27.5.2.4	167	59	T	Y	167.59 27.5.2.4	Non associated STA should not be able to respond to the trigger frame.	Replace TBD as suggested.		2017/1/9 9:42
10013 Yuichi Morioka	225	1 27.5.2.4	170	24	T	Y	170.24 27.5.2.4	If a triggered STA observes medium busy using Energy Detection, the energy is from OBSS or other systems. The STA should be able to transmit the triggered PPDU if the required transmission power is low.	Define a rule that allows STAs to override Energy Detection depending on the received energy level and required transmission power of the triggered PPDU, similar to that of OBSS-PD.		2017/1/9 9:42
10014 Yuichi Morioka	225	1 27.5.2.4	170	53	T	Y	170.53 27.5.2.4	HE AP may be able to more effectively allocate UL MU resource if it has knowledge of the interference level observed at the HE STA.	Add Interference Level measurement feedback operation like HE buffer status feedback operation.		2017/1/9 9:42
10015 Yuichi Morioka	225	1 27.5.2.5	172	1	T	Y	172.01 27.5.2.5	Even if STA has already reported buffer status, STA should retransmit same BSR because AP may have missed the previous BSR.	Delete the first condition.		2017/1/9 9:42
10016 Yuichi Morioka	225	1 27.5.2.6	172	28	T	Y	172.28 27.5.2.6	It should be beneficial if the AP can allocate part of the random access RUs for BSRP and partly for other UL small data.	Define a field within the trigger frame that indicates which RU set is intended for BSRP.		2017/1/9 9:42
10017 Yuichi Morioka	225	1 27.5.2.6.2	173	46	E	N	173.46 27.5.2.6.2	missing period (.).	As commented		2017/1/9 9:42
10018 Yuichi Morioka	225	1 27.9	190	1	T	Y	190.01 27.9	In dense environments, most preambles sent from OBSS STAs will not be decodable due to partially overlapping PPDUs. The spec should define a spatial reuse mechanism that is effective in dense environments.	Define an adjustable Energy Detection threshold proportional to the transmission power, similar to that of OBSS-PD.		2017/1/9 9:42

10019 Yuichi Morioka	225	1 27.9.1	190	12	E	N	190.12 27.9.1	"... to either an HE STA or a non HE STA." This is all STAs, so no meaning.	Remove the cited part of the sentence.	2017/1/9 9:42
10020 Yuichi Morioka	225	1 27.9.1	190	30	T	Y	190.30 27.9.1	"- A non-HT PPDU that carries an..." This implies that the non-HT PPDU need to be decoded up until the end of the PPDU to determine whether the PHYCCARESET.request can be issue. By that time the PPDU has already ended.	Replace bullet starting with "- The PPDU is not one of the following" with "The PPDU is not a non HT PPDU"	2017/1/9 9:42
10021 Yuichi Morioka	225	1 27.9.1	190	36	T	N	190.36 27.9.1	"The PHYCCARESET.request primitive shall be issued at the end of the PPDU..." This is normal behavior. If the PPDU also meets all the conditions mentioned in the list above (e.g. if the PPDU is a inter BSS PPDU) which rule take precedence?	Reformulate the bullets in lines 24-34 in page 190, so it includes the case of "SR_Delay".	2017/1/9 9:42
10022 Yuichi Morioka	225	1 27.9.1	190	39	T	Y	190.39 27.9.1	"If the PHYCCARESET.request primitive is issued before the end of the PPDU..." All PPDUs sent using the SR rule should be limited to within the OBSS PPDU, as the excess portion of the SR PPDU will be prone to interference.	Remove line 41 of page 190 that says "if the PPDU is HE MU PPDU and the RXVECTOR parameter SPATIAL_REUSE indicates SR_Restricted."	2017/1/9 9:42
10023 Yuichi Morioka	225	1 27.9.1	190	39	T	Y	190.39 27.9.1	"If the PHYCCARESET.request primitive is issued before the end of the PPDU..." If it is allowed for the TXOP to go beyond the inter-BSS PPDU, it would be beneficial to limit the length of the first PPDU such that the start of the second PPDU starts after the end of the inter-BSS PPDU. This way the preamble of the second PPDU can be detected from third party.	Add rule as commented so preamble detection is still useful.	2017/1/9 9:42
10024 Yuichi Morioka	225	1 27.9.2.1	190	43	T	Y	190.43 27.9.2.1	In order to allow efficient use of SR resource, STA should be allowed to subtract the time it took to determine that the received PPDU is an inter-BSS PPDU from its BO timer.	Add "If the PHYCCARESET.request primitive is issued before the end of the PPDU, the Back off counter of the STA may be decremented by the time it took from the beginning of the PPDU until the PHYCCARESET.request primitive was issued"	2017/1/9 9:42
10025 Yuichi Morioka	225	1 27.9.2.1	190	43	T	Y	190.43 27.9.2.1	The specification needs to define a way for a STA to detect other PPDUs after PHYCCARESET.request is issued before the end of the inter-BSS PPDU.	Define a threshold at which a STA's PHY will issue PHY-CCA.indication with a value equal to BUSY upon detection of energy above the threshold during the inter-BSS PPDU. The threshold shall be relative to the reception power of the inter-BSS PPDU.	2017/1/9 9:42
10026 Yuichi Morioka	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	SR backoff procedure should be defined.	Add texts as follow. Before SR transmission, STA should wait for random time as special backoff. This random time should be determined by received interference level.	2017/1/9 9:42
10027 Yuichi Morioka	225	1 27.9.2.1	190	53	T	Y	190.53 27.9.2.1	"The STA may resume its backoff procedure..." This seems to be normal procedure after PHYCCARESET.request primitive is issued	Remove sentence and NOTE.	2017/1/9 9:42
10028 Yuichi Morioka	225	1 27.9.2.2	191	3	T	Y	191.03 27.9.2.2	When a HE STA lowers the transmission power based on OBSS-PD, the transmission may not be heard by another STA in the BSS, i.e. could be hidden within the BSS. Transmission of RTS could solve this problem.	Define a mechanism where the AP can request for the transmission of RTS if the transmission power of the STA is below a determined threshold.	2017/1/9 9:42
10029 Yuichi Morioka	225	1 27.9.2.2	191	7	E	N	191.07 27.9.2.2	OBSSPD should be OBSS_PD	replace OBSSPD with OBSS_PD	2017/1/9 9:42
10030 Yuichi Morioka	225	1 27.9.2.2	191	52	E	N	191.52 27.9.2.2	TXPWR should be TX_PWR	replace TXPWR with TX_PWR	2017/1/9 9:42
10031 Yuichi Morioka	225	1 27.9.2.2	191	62	T	Y	191.62 27.9.2.2	How OBSS_PDmin_default is used is not defined.	Specify how this value is used.	2017/1/9 9:42
10032 Yuichi Morioka	225	1 27.9.2.2	191	62	T	Y	191.62 27.9.2.2	"OBSS_PDmin_default = -82 dBm and OBSS_PDmax_default = -62 dBm." Second entry in this equation does not make sense.	Rewrite the second entry of this equation.	2017/1/9 9:42

10033 Yuichi Morioka	225	1 27.9.2.2	192	16	T	Y	192.16 27.9.2.2	If STA sets a low TXPWRmax after calculating with Equation (27-1), transmitted frame may not be receive at the receiver. STA should have information about link budget such as pathloss so that STA can judge if transmitted frame will be received successfully or not.	In HE SU PPDU, Acceptable Receiver Interference level of SRP in HE-SIG-A will be set as fixed value (such as -50dBm). STA that received HE SU PPDU frame can calculate pathloss by subtracting Acceptable Receiver Interference level as fixed value from SRP.	2017/1/9 9:42
10034 Yuichi Morioka	225	1 27.9.2.2	192	21	T	Y	192.21 27.9.2.2	"The STA may increase the OBSS_PDlevel during the backoff procedure, its maximum transmit power being adjusted as defined above." Incomplete sentence.	Correct sentence.	2017/1/9 9:42
10035 yujin noh	225	1 28.3.8	259	6	E	Y	259.06 28.3.8	to keep consistency in the Table 28-11, description of parameters could be modified such as NSD: Number of complex data tones (or subcarriers) per frequency segment. NSP: Number of pilot tones (or subcarriers) per frequency segment ...	As in the comment.	2017/1/9 9:42
10036 yujin noh	225	1 28.3.8	259	61	T	Y	259.61 28.3.8	There is no TXVECTOR parameter NUM_RUS defined in the spec. If needed, add the descripion of the parameter of TXVECTOR parameter NUM_RUS in Table 28-1 (TXVECTOR and RXVECTOR parameters)	As in the comment.	2017/1/9 9:42
10037 yujin noh	225	1 28.3.8	260	15	T	Y	260.15 28.3.8	add definition of max operation for HE MU PPDU in the Table 28-12 (definition could be placed in NOTE) for readers.	As in the comment.	2017/1/9 9:42
10038 yujin noh	225	1 28.3.9	263	7	E	Y	263.07 28.3.9	in order to be consistent through the spec, NHE-SIG-B (italic HE-SIG-B) needs to be replaced with NHE-SIG-B (non-italic HE-SIG-B subscripted)	As in the comment.	2017/1/9 9:42
10039 yujin noh	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	clarify SRP-based spatial reuse operation with a new sub-clause as 27.9.3.	As in the comment.	2017/1/9 9:42
10040 yujin noh	225	1 28.3.10.7.2	274	12	T	Y	274.12 28.3.10.7.2	clarify SRP-based spatial reuse operation with a new sub-clause as 27.9.3.	As in the comment.	2017/1/9 9:42
10041 yujin noh	225	1 28.3.10.7.2	274	6	T	Y	274.06 28.3.10.7.2	defind the rest values except for SR Disallowed and SR_Delay.	As in the comment.	2017/1/9 9:42
10042 yujin noh	225	1 28.3.10.7.2	273	48	E	Y	273.48 28.3.10.7.2	to be consistent of description between Bandwidth field and MCS field in the table, "P20" needs to be replaced with "primary 20MHz"	As in the comment.	2017/1/9 9:42
10043 yujin noh	225	1 28.3.10.7.2	276	41	T	Y	276.41 28.3.10.7.2	defind the rest values except for SR Disallowed and SR_Restricted.	As in the comment.	2017/1/9 9:42
10044 yujin noh	225	1 28.3.10.7.2	277	26	E	Y	277.26 28.3.10.7.2	"full BW MU-MIMO" is only used as description in this table. "full BW MU-MIMO" could be replaced with "full bandwidth MU-MIMO transmission" to be consistent through the spec.	As in the comment.	2017/1/9 9:42
10045 yujin noh	225	1 28.3.10.7.3	282	51	T	Y	282.51 28.3.10.7.3	"User Specific field" needs to be replaced with "User Block field" to be consistent through the spec. "User Specific field", "User field" and "User Block field" are mixed in use in the current version of spec. It needs to be consistent with proper terminologies.	As in the comment.	2017/1/9 9:42
10046 yujin noh	225	1 28.3.10.7.3	282	51	T	Y	282.51 28.3.10.7.3	value of L for the HE-SIG-B User block field should be different depending on assigned number of users which could be odd or even.	As in the comment.	2017/1/9 9:42
10047 yujin noh	225	1 28.3.10.7.4	285	21	E	Y	285.21 28.3.10.7.4	add HE-SIG-A2, HE-SIG-A3 and HE-SIG-A4 in the Figure 28-19.	As in the comment.	2017/1/9 9:42
10048 yujin noh	225	1 28.3.11.2	314	32	T	Y	314.32 28.3.11.2	In order to reduce misunderstanding on the cencept of post-FEC PHY padding, "applied on" could be replaced with proper text such as "appended right after or appended to" .	As in the comment.	2017/1/9 9:42
10049 yujin noh	225	1 28.3.11.2	314	42	E	Y	314.42 28.3.11.2	to be consistent through the spec, "a = 1" needs to be modified with "a = 1" (italic a)	As in the comment.	2017/1/9 9:42

10050	yujin noh	225	1 28.3.11.2	316	1	E	Y	316.01 28.3.11.2	When refering to Table 28-25 (NSD,SHORT values) in the sentence, "SD,SHORT" should be subscripted and italic. Table 28-25 (NSD,SHORT values) needs to be modified with Table 28-25 (NSD,SHORT values) to be consistent through the spec.	As in the comment.		2017/1/9 9:42
10051	yujin noh	225	1 28.3.11.5.1	317	56	E	Y	317.56 28.3.11.5.1	"user u" should be replaced with "user u" as italic u to be consistent through the spec.	As in the comment.		2017/1/9 9:42
10052	yujin noh	225	1 28.3.11.5.3	319	45	E	Y	319.45 28.3.11.5.3	In NPAD,POST-FEC, ":" should be changed with "," to be consistent through the spec.	As in the comment.		2017/1/9 9:42
10053	yujin noh	225	1 28.3.11.5.4	319	59	E	Y	319.59 28.3.11.5.4	"user u" should be replaced with "user u" as italic u to be consistent through the spec.	As in the comment.		2017/1/9 9:42
10054	yujin noh	225	1 28.3.11.5.4	320	6	E	Y	320.06 28.3.11.5.4	in NSYM.init, "." should be replaced with ","	As in the comment.		2017/1/9 9:42
10055	yujin noh	225	1 28.3.11.6	322	40	T	Y	322.40 28.3.11.6	Clarify the meaning of "the output of the FEC encoder" in the sentence. It could mislead to understand that output of the FEC encoder may not include post-FEC padding bit.	As in the comment.		2017/1/9 9:42
10056	yujin noh	225	1 28.3.11.9	327	34	T	Y	327.34 28.3.11.9	add the meaning of conj() for non-expert readers.	As in the comment.		2017/1/9 9:42
10057	yujin noh	225	1 28.3.11.9	327	34	T	Y	327.34 28.3.11.9	To be consistent with other modulation with DCM, add the text as "The NSD here refers to the NSD with DCM = 1, which is half the value of NSD with DCM = 0"	As in the comment.		2017/1/9 9:42
10058	yujin noh	225	1 28.3.11.9	327	45	E	Y	327.45 28.3.11.9	"he" is shown. "The" missed "T" in the text "he NSD here refers..."	As in the comment.		2017/1/9 9:42
10059	yujin noh	225	1 28.3.11.10	327	54	E	Y	327.54 28.3.11.10	There is "no STBC bit field" in HE-SIG-A in the spec. "STBC bit" should be replaced with "STBC field" to be consistent through the spec.	As in the comment.		2017/1/9 9:42
10060	yujin noh	225	1 28.3.10.8	285	55	T	Y	285.55 28.3.10.8	HE-SIG-B section mixes some terminologies in use when refering to "Common Block field" vs "Comon field" and "User Specific field" vs "User Block field" vs "User field". It can make readers confused to understand this section. For rest sections, those terminologies are mixed up as well when refered. A Common Block field should be used when describing on the encoding process through the spec if it is refered. A Common field should be used when describing on the whole content through the spec if it is refered. A User Block field should be used when describing on the encoding process through the spec if it is refered. A User specific field should be used when describing on the whole content through the spec if it is refered. A User field should be used when describing on each user content through the spec if it is refered.	As in the comment.		2017/1/9 9:42
10061	yujin noh	225	1 28.3.10.8	286	55	T	Y	286.55 28.3.10.8	Different texts as "RU Allocation subfield", "RU Allocation signalling field", "RU allocation signalling" and so on are used to indicate RU Allocation field through HE-SIG-B section. Those different texts need to be replaced with "RU Allocation field" through the spec when it is refered.			2017/1/9 9:42
10062	yujin noh	225	1 28.3.10.8.1	286	13	T	Y	286.13 28.3.10.8.1	Figure 26-20 shows BCC block, which does not exist in the draft specification any more.	1 BCC Block in Common Field needs to be changed Common Block Field. 1 BCC Block in User Specfic Field needs to be changed as 1 User Block Field.		2017/1/9 9:42

10063 yujin noh	225	1 28.3.10.8	286	55	E	Y	286.55 28.3.10.8	"common field" with the small letter c and "Common field" with the capital letter C are mixed in use in HE-SIG-B section. If it is refered for rest sections through the spec, the same terminology should be used.	To be consistent, common field needs to be replaced with Common field	2017/1/9 9:42
10064 yujin noh	225	1 28.3.10.8	286	55	E	Y	286.55 28.3.10.8	"user field" with the small letter u and "User field" with the capital letter U are mixed in use in HE-SIG-B section. If it is refered for rest sections through the spec, the same terminology should be used.	To be consistent, user field needs to be replaced with User field	2017/1/9 9:42
10065 yujin noh	225	1 28.3.10.8.4	290	27	E	Y	290.27 28.3.10.8.4	subfield and field are mixed in use in HE-SIG-B section. Refer to Table 28-20 and Table 28-22/23	In table 28-20, subfield needs to be replaced with field. For example, in P294L1, "RU allocation signaling" needs to be replaced with "RU Allocation field."	2017/1/9 9:42
10066 yujin noh	225	1 28.3.10.8.4	293	8	T	Y	293.08 28.3.10.8.4	y2y1y0 is not limited to be used to indicate only 106-tone RU in the table. Looking at the last 5 rows in the table, y2y1y0 indicates the number of STAs multiplexed in one RU with 106/242/484/996/2x996-tone RU.	y2y1y0 = 000-111 indicates number of STAs multiplexed in one RU (e.g., 106 / 242 / 484 / 996 / 2x996-tone RU) or the left 106-tone RU if there are two 106-tone RUs(#2035). The binary vector y2y1y0 is indexed as [y[3]y[2]y[1]] indicates 22 + y[3] + 21 + y[2] + y[1] + 1 STAs multiplexed in the RU.	2017/1/9 9:42
10067 yujin noh	225	1 28.3.10.8.5	295	6	T	Y	295.06 28.3.10.8.5	In Table 28-22, "non-MU-MIMO allocation" means "SU-MIMO allocation in the signaled RU" assignment. The terminology as "non-MU-MIMO is used only in the chapter".	"non-MU-MIMO allocation" should be replaced with "SU-MIMO allocation in the signaled RU"	2017/1/9 9:42
10068 yujin noh	225	1 28.3.10.8.5	297	20	E	Y	297.20 28.3.10.8.5	No field named as "SIGB Number of Symbols/Number of MU-MIMO Users field" in the spec. The "SIGB Number of Symbols/Number of MU-MIMO Users field" needs to be replaced with "Number Of HE-SIG-B Symbols Or MU-MIMO Users" as defined in Table 28-17.	As in the comment.	2017/1/9 9:42
10069 yujin noh	225	1 28.3.18.4.4	359	2	T	Y	359.02 28.3.18.4.4	contentwise, e) is a wrong reference. The average unoccupied subcarrier error vector magnitude for each unoccupied 26-tone RU is calculated with step f) not step e).	As in the comment.	2017/1/9 9:42
10070 yujin noh	225	1 28.3.18.4.4	359	19	T	Y	359.19 28.3.18.4.4	step h) is not present as approved texts in 16/1427. Since mask-like EVM is decided to use with step g), step h) is not necessary.	remove step h) and Equation (28-127)	2017/1/9 9:42
10071 yujin noh	225	1 27.6.4	179	24	T	Y	179.24 27.6.4	4x HE-LTF and 0.8us has been introduced in the spec in order to make sure the channel estimation accuary with small delay spread for MIMO or MU-MIMO scenarios. TXVECTOR parameter in HE NDP should include GI_TYPE set to 0.8 when HE_LTF_TYPE is set to 4x HE-LTF	GI_TYPE set to either 0.8 us or 1.6 us when HE_LTF_TYPE is set to 2x HE-LTF; otherwise GI_TYPE set to either 0.8us or 3.2 us.	2017/1/9 9:42
10072 yujin noh	225	1 28.3.12	340	3	T	Y	340.03 28.3.12	Once the receiver calculate the number of data symbol, the receiver doesn't need to calculate T_PE. It can recognize the actual ending time of the PPDU since the PE field, when present, shall be transmitted with the same average power as the Data field. remove Equation (28-117) and corresponding texts in spec.	As in the comment.	2017/1/9 9:42
10073 yujin noh	225	1 9.4.2.218.2	76	48	T	Y	76.48 9.4.2.218.2	There is no agreed HE link adaptation operation such that it's not clear whether to have unsolicited HE MFB. Depending on the decision, the number of bits corresponding link adaptation capability needs to be modified.	As in the comment.	2017/1/9 9:42
10074 yujin noh	225	1 9.4.2.218.2	78	27	T	Y	78.27 9.4.2.218.2	There is no agreed HE link adaptation operation such that it's not clear whether to have unsolicited HE MFB. Depending on the decision, its decription needs to be modified.	As in the comment.	2017/1/9 9:42

10075	yujin noh	225	1 28.3.11.9	327	14	T	Y	327.14 28.3.11.9	Clarify the text "in order to exploit frequency diversity for a and ... for a 2x996-tone RU" in spec	As in the comment.	2017/1/9 9:42
10076	yujin noh	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	In the middle of sentence, "0if" is shown as a typo.	... AID value 0. If the selected RU....	2017/1/9 9:42
10077	yujin noh	225	1 9.4.2.220	93	46	E	Y	93.46 9.4.2.220	wrong unit in Figur 9-589cu. "Octets" needs to be replaced with "bits"	As in the comment.	2017/1/9 9:42
10078	yujin noh	225	1 9.4.2.220	93	60	E	Y	93.60 9.4.2.220	field name as "EOCWmax field" is not consistent between Figure 9-589cu and its description. EOCW_max and OCW_max need to replaced with EOCWmax and OCWmax, respectively	As in the comment.	2017/1/9 9:42
10079	yujin noh	225	1 27.9.2.1	190	59	T	Y	190.59 27.9.2.1	A PHY-CCARESET.request primitive needs to be acknowledged with a PHY-CCARESET.confirm primitive from the PHY. PHY-CCARESET.confirm primitive is issued by the PHY to the local MAC entity to confirm that the PHY has reset the CCA state machine when the PHY has received a PHY-CCARESET.request primitive.	As in the comment.	2017/1/9 9:42
10080	yujin noh	225	1 27.9	190	1	T	Y	190.01 27.9	specify SRP-based SR mechanism with a new subclause 27.9.3.	As in the comment.	2017/1/9 9:42
10081	yujin noh	225	1 28.1.1	209	43	T	Y	209.43 28.1.1	channel puncturing and preamble puncturing are mixed in use through the spec. In order to be consistent, preamble puncturing could be used instead of channel puncturing.	As in the comment.	2017/1/9 9:42
10082	yujin noh	225	1 28.1.1	209	59	T	Y	209.59 28.1.1	add QPSK DCM. QPSK modulation with DCM is defined in 28.3.11.9 Constellation mapping	As in the comment.	2017/1/9 9:42
10083	yujin noh	225	1 28.2.2	221	18	T	Y	221.18 28.2.2	The definition of channel bonding is not existed in the spec. In order to be consistent through the spec, channel bonding should be replaced with preamble puncturing.	As in the comment.	2017/1/9 9:42
10084	yujin noh	225	1 28.3.3.2	229	31	E	Y	229.31 28.3.3.2	"-" is shown at the end of the sentence as a typo. remove "-" at the end of the sentence.	As in the comment.	2017/1/9 9:42
10085	yujin noh	225	1 28.3.3.2	230	6	T	Y	230.06 28.3.3.2	add descrption on [a:b] used in Table 28-3, Table 28-4 and Table 28-5.	As in the comment.	2017/1/9 9:42
10086	yujin noh	225	1 28.3.3.2	235	47	E	Y	235.47 28.3.3.2	in "Nx4x26 subcarriers", "x" as alphabet needs to replaced with "+" as equation symbol.	As in the comment.	2017/1/9 9:42
10087	yujin noh	225	1 28.3.3.2	230	9	E	Y	230.09 28.3.3.2	add descrption with "Subcarrier indices" in Table 28-3, 28-4 and 28-5 in the first row as identical as Null Subcarrier Indices in the first row in Table 28-6	As in the comment.	2017/1/9 9:42
10088	yujin noh	225	1 28.3.3.4	237	6	T	Y	237.06 28.3.3.4	Through the spec, "lower/upper" 80MHz is used generally rather than "first/second" 80MHz. The "first/second" 80MHz needs to be replaced with "lower" 80MHz and "upper" 80MHz to be consistent in the spec.	As in the comment.	2017/1/9 9:42
10089	yujin noh	225	1 28.3.3.5	237	18	E	Y	237.18 28.3.3.5	wrong reference. 28.3.9 needs to be modified to 28.3.3.6 20 MHz only HE STAs	As in the comment.	2017/1/9 9:42
10090	yujin noh	225	1 28.3.3.5	237	34	E	Y	237.34 28.3.3.5	"2 26-tone RUs" should be modified with "2 of 26-tone RUs" in order to be consistent with description of 52- and 106-tone RUs such as "2 of 52-tone RUs are restricted"	As in the comment.	2017/1/9 9:42
10091	yujin noh	225	1 28.3.3.5	237	35	E	Y	237.35 28.3.3.5	"7 26-tone RUs" should be modified with "7 of 26-tone RUs" in order to be consistent with description of 52- and 106-tone RUs such as "2 of 52-tone RUs are restricted"	As in the comment.	2017/1/9 9:42
10092	yujin noh	225	1 28.3.3.5	237	38	E	Y	237.38 28.3.3.5	"14 26-tone RUs" should be modified with "14 of 26-tone RUs" in order to be consistent with description of 52- and 106-tone RUs such as "2 of 52-tone RUs are restricted"	As in the comment.	2017/1/9 9:42

10093	yujin noh	225	1 28.3.3.8.3	238	60	T	Y	238.60 28.3.3.8.3	no defintion of "SIGB Common field" in the spec. "SIGB Common field" needs to be replaced with "Common field of HE-SIG-B" to be consistent through the spec.	As in the comment.	2017/1/9 9:42
10094	yujin noh	225	1 28.3.3.8.3	238	61	T	Y	238.61 28.3.3.8.3	no defintion of "HE-SIGB Common field" in the spec. "HE-SIG-B Common field" needs to be replaced with Common field of HE-SIG-B to be consistent through the spec	As in the comment.	2017/1/9 9:42
10095	yujin noh	225	1 28.3.3.8.3	238	61	E	Y	238.61 28.3.3.8.3	RU allocation signaling is not a field name in the Common field of the HE-SIG-B. RU allocation signaling needs to be replaced with RU Allocation field.	As in the comment.	2017/1/9 9:42
10096	yujin noh	225	1 28.3.3.8.3	239	1	T	Y	239.01 28.3.3.8.3	HE-SIG-B common field needs to be replaced with Common field of HE-SIG-B to be consistent in the spec	As in the comment.	2017/1/9 9:42
10097	yujin noh	225	1 28.3.3.8.3	239	2	T	Y	239.02 28.3.3.8.3	HE-SIG-B consists of Common field and User specfic field. Remove s from fields. No plurality of User Specific fields defind in the spec. Or it meant to be User fields.	As in the comment.	2017/1/9 9:42
10098	yujin noh	225	1 28.3.3.8.3	239	5	T	Y	239.05 28.3.3.8.3	User block fields in this chapter should be modified with User fields. User Block field should be used only when describing on the encoding process.	As in the comment.	2017/1/9 9:42
10099	yujin noh	225	1 28.3.3.8.3	239	5	E	Y	239.05 28.3.3.8.3	"SIG-B channels" should be replaced with "HE-SIG-B conlent channels" to be consistent through the spec.	As in the comment.	2017/1/9 9:42
10100	yujin noh	225	1 28.3.3.8.3	239	8	T	Y	239.08 28.3.3.8.3	"user specific block" should be modified with "User field" to be consistent through the spec. A User field should be used when describing on each user content through the spec if it is refered.	As in the comment.	2017/1/9 9:42
10101	yujin noh	225	1 28.3.3.8.3	239	12	E	Y	239.12 28.3.3.8.3	"spatial configuration field" should be replaced with "Spatial Configuration field" to be consistent through the spec.	As in the comment.	2017/1/9 9:42
10102	yujin noh	225	1 28.3.3.8.3	239	19	T	Y	239.19 28.3.3.8.3	no definition of "user specific blocks" in the spec. all user specific blocks in this chapter should be replaced with User fields to be consistent through the spec. A User field should be used when describing on each user content	As in the comment.	2017/1/9 9:42
10103	yujin noh	225	1 28.3.3.8.3	239	19	E	Y	239.19 28.3.3.8.3	There is the field name indicating 11-bit field, "Each user specific block has an 11-bit field indicating the STA ID" should be modified with "Each user specific block has an 11-bit field as STA-ID field indicating the AID described in 9.4.1.8 (AID field)"	As in the comment.	2017/1/9 9:42
10104	yujin noh	225	1 28.3.3.8.3	239	22	T	Y	239.22 28.3.3.8.3	clarify the meaning of block index in "The user position is indicated by the block index". There is no definition of block index in the spec.	As in the comment.	2017/1/9 9:42
10105	yujin noh	225	1 28.3.3.8.3	239	22	T	Y	239.22 28.3.3.8.3	add the reference of "a multiplexing information lookup table" with Table 28-24 (Spatial Configuration subfield encoding).	As in the comment.	2017/1/9 9:42
10106	yujin noh	225	1 28.3.3.8.3	239	38	E	Y	239.38 28.3.3.8.3	RU r should be modified with RU r (italic r) to be consistent through the spec	As in the comment.	2017/1/9 9:42
10107	yujin noh	225	1 28.3.3.8.3	239	39	T	Y	239.39 28.3.3.8.3	no definition of "HE-SIG-B user specific blocks" in the spec. It should be replaced with "User field in HE-SIG-B".	As in the comment.	2017/1/9 9:42

10108	yujin noh	225	1 28.3.3.10.3	240	12	T	Y	240.12 28.3.3.10.3	it is not necessary to have two mandatory technologies having the identical purpose. 1) Have single stream pilot as mandatory on top of mask LTF sequence as optional. 2) Or A STA capable of UL MU-MIMO transmission on full bandwidth shall support either single stream pilot or masking LTF sequence of each spatial stream by a distinct orthogonal code depending on its capabilities. Or 3) give the option of implemention and its capability to AP when associated with	1) define Mask LTF Sequence subfield in the HE PHY Capabilities Information field: definition: indicates support of Mask LTF sequence. Set to 0 if not supported. Set to 1 if supported. or 2) define MU-MIMO LTF Mode subfield in the HT PHY Capabilities information field: definition: Bx: Indicates support of single stream pilot By: Indicates support of mask LTF sequence. or 3) define MU-MIMO LTF Mode subfield in the HT PHY Capabilities information field: definition: Set to 0 if single stream pilot is supported. Set to 1 if mask LTF sequence is supported		2017/1/9 9:42
10109	yujin noh	225	1 9.3.1.23	42	7	E	Y	42.07 9.3.1.23	as a subfield name, "GIAnd LTF Type" is shown as a typo. It should be "GI And LTF Type" field.	As in the comment.		2017/1/9 9:42
10110	yujin noh	225	1 28.3.3.10.3	240	50	E	Y	240.50 28.3.3.10.3	There are no "RU allocation info field" and "SS allocation field" in Uer Info field. RU allocation info and SS allocation needs to be modified with "RU Allocation field" and "SS Allocation field" which are the name of subfields in User Info field.	As in the comment.		2017/1/9 9:42
10111	yujin noh	225	1 28.3.3.10.3	240	51	E	Y	240.51 28.3.3.10.3	There is no field named as "Address field". "Address field" needs to be modified with "AID12 subfield" which is the name of subfield in User Info field.	As in the comment.		2017/1/9 9:42
10112	yujin noh	225	1 28.3.3.10.3	240	54	E	Y	240.54 28.3.3.10.3	There is no field named as "Address field". "Address field" needs to be modified with "AID12 subfield" which is the name of subfield in User Info field.	As in the comment.		2017/1/9 9:42
10113	yujin noh	225	1 28.3.4	242	27	T	Y	242.27 28.3.4	In Table 28-9, THE-SIG-A and THE-SIG-A-R are defined as 8us and 16us, respectively. Then in Figure 28-7, HE-SIG-A should be replaced with HE-SIG-A-R. add the definition of HE-SIG-A-R and modify the Figure 29-7 and Table 28-8 to present HE-SIG-A-R field in HE extended range SU PPDU	As in the comment.		2017/1/9 9:42
10114	yujin noh	225	1 28.3.6.7	252	34	T	Y	252.34 28.3.6.7	"User Specific field" needs to be replaced with "User Block field" in this capter. User Block field should be used when describing on the encoding process	As in the comment.		2017/1/9 9:42
10115	yujin noh	225	1 28.3.6.7	252	50	E	Y	252.50 28.3.6.7	wrong reference. 28.3.10.8.1 needs to be replaced with 28.3.10.8.2 in order to describe the 1212 HE-SIG-B content channel mapping depending on the bandwidth.	As in the comment.		2017/1/9 9:42
10116	yujin noh	225	1 28.3.7	256	10	E	Y	256.10 28.3.7	no termonology of "HE-SIG-B-MCS" except for this chapter with Line 10, 11 and 12. HE-SIG-B-MCS needs to be replaced with "SIGB MCS" to be consistent in the spec. "SIGB MCS" is the field name defined in HE-SIG-A field.	As in the comment.		2017/1/9 9:42
10117	yujin noh	225	1 28.3.7	257	61	T	Y	257.61 28.3.7	If there is no use of "THE-LTF-SYM" through the spec, remove the unnecessary paramter in th table.	As in the comment.		2017/1/9 9:42
10118	yujin noh	225	1 28.3.8	258	20	E	Y	258.20 28.3.8	to keep consistency in the Table 28-10, some description of parameters could be modified such as NSD: Number of complex data tones (or subcarriers) per frequency segment.(instead of "number of complex data numbers") NSP: Number of pilot tones (or subcarriers) per frequency segment (instead of "number of pilot values") ...	As in the comment.		2017/1/9 9:42

10119	yujin noh	225	1 28.3.8	258	49	E	Y	258.49 28.3.8	In order to keep consistency between NGuard,Left and NGuard,Right in the same table, "side" could be replaced with "end" such that "Numbr of guard tons at the lower end of the spectrum". To describe the guard tone position, lower/higher end could be much clear for readers.	As in the comment.	2017/1/9 9:42
10120	yujin noh	225	1 28.3.11.11	328	41	E	Y	328.41 28.3.11.11	in 2x996, alphabet x should be modifid with symbol + in lines 40, 47 and 59 at P328 and in lines 12, 19, 34 and 58 at P329 and in lines 3 at P330	As in the comment.	2017/1/9 9:42
10121	yujin noh	225	1 28.3.11.11	329	47	E	Y	329.47 28.3.11.11	"Error! Reference source not found. and Error! Reference source not found" is shown. fix the reference	As in the comment.	2017/1/9 9:42
10122	yujin noh	225	1 28.3.11.13	333	28	E	Y	333.28 28.3.11.13	Equation (28-105) misses baskets where n + 1 mod 8, n + 2 mod 8 and n + 3 mod 8 should be replaced with (n + 1) mod 8, (n + 2) mod 8 and (n + 3) mod 8, respectively	As in the comment.	2017/1/9 9:42
10123	yujin noh	225	1 28.3.11.13	334	17	E	Y	334.17 28.3.11.13	Equation (28-106) misses baskets where n + 1 mod 8, n + 2 mod 8 and n + 3 mod 8 should be replaced with (n + 1) mod 8, (n + 2) mod 8 and (n + 3) mod 8, respectively	As in the comment.	2017/1/9 9:42
10124	yujin noh	225	1 28.3.11.13	335	6	E	Y	335.06 28.3.11.13	in KR2x996i, alphabet x should be modifid with symbol + in lines 6, 14 and 28 at P355	As in the comment.	2017/1/9 9:42
10125	yujin noh	225	1 28.3.14.3	342	37	T	Y	342.37 28.3.14.3	clarify the meaning of consecutive HE trigger-based PPDU. For example, is it the HE tirrger-based PPDU followed by another HE trigger-based PPDU without the Trigger frame?	As in the comment.	2017/1/9 9:42
10126	yujin noh	225	1 28.3.15.1	343	4	T	Y	343.04 28.3.15.1	add the definition of SU-MIMO and DL MU-MIMO beamforming to be consistent with 21.3.11.1 in 11ac. For example, SU-MIMO and DL-MU-MIMO beamforming are techniques used by a STA with multiple antennas (the beamformer) to steer signals using knowledge of the channel to improve throughput. With SU-MIMO beamforming all space-time streams in the transmitted signal are intended for reception at a single STA. With DL MU-MIMO beamforming, disjoint subsets of the space-time streams are intended for reception at different STAs.	As in the comment.	2017/1/9 9:42
10127	yujin noh	225	1 28.3.15.2	343	59	E	Y	343.59 28.3.15.2	+¬(k,v)should be replaced with +¬(k,u)because it is the angle information to build Vk,u	As in the comment.	2017/1/9 9:42
10128	yujin noh	225	1 28.3.15.2	344	8	E	Y	344.08 28.3.15.2	+¬(k,v)should be replaced with +¬(k,u)because it is the angle information to build Vk,u	As in the comment.	2017/1/9 9:42
10129	yujin noh	225	1 28.3.15.2	344	11	E	Y	344.11 28.3.15.2	"For MU-MIMO beamforming" should be replaced with "For DL MU-MIMO beamforming" since 28.3.15.2 is a sub-clause of 28.3.15 SU-MIMO and DL MU-MIMO beamforming.	As in the comment.	2017/1/9 9:42
10130	yujin noh	225	1 28.3.19	360	40	E	Y	360.40 28.3.19	to be consistent through the spec, "HE-SIG-A Sym 1", and "HE-SIG-A Sym 2" should be replaced with "HE-SIG-A1"and "HE-SIG-A2"	As in the comment.	2017/1/9 9:42
10131	yujin noh	225	1 28.3.19	361	20	E	Y	361.20 28.3.19	to be consistent through the spec, "HE-SIG-A Sym 1", "HE-SIG-A Sym 2", "HE-SIG-A Sym 3" and "HE-SIG-A Sym 4" should be replaced with "HE-SIG-A1", "HE-SIG-A2", "HE-SIG-A3" and "HE-SIG-A4"	As in the comment.	2017/1/9 9:42
10132	yujin noh	225	1 28.3.19	361	47	E	Y	361.47 28.3.19	to be consistent through the spec, "HE-SIG-A Sym 1", and "HE-SIG-A Sym 2" should be replaced with "HE-SIG-A1"and "HE-SIG-A2"	As in the comment.	2017/1/9 9:42

10133	yujin noh	225	1 28.3.19	362	21	E	Y	362.21 28.3.19	to be consistent through the spec, "HE-SIG-A Sym 1", and "HE-SIG-A Sym 2" should be replaced with "HE-SIG-A1"and "HE-SIG-A2"	As in the comment.	2017/1/9 9:42
10134	yujin noh	225	1 28.3.19	363	40	T	Y	363.40 28.3.19	Considering not following the 4us boundary rule for TX/RXTIME anymore in 11ax, in order to reduce the confusion when PHY issues the PHY-TXEND.confirm primitive, "the PHY-TXEND.confirm primitive is generated at the end of last symbol of the PPDU" should be clarified with "the PHY-TXEND.confirm primitive is generated at the actual end of last symbol of the PPDU".	As in the comment.	2017/1/9 9:42
10135	yujin noh	225	1 28.3.19	364	14	T	Y	364.14 28.3.19	RL-SIG should not be classified into L-Preamble. Move TX RL-SIG(BPSK) into the next steps with TX HE-Preamble.	As in the comment.	2017/1/9 9:42
10136	yujin noh	225	1 28.3.19	364	42	E	Y	364.42 28.3.19	In NSYM, "SYM" needs to be subscripted.	As in the comment.	2017/1/9 9:42
10137	yujin noh	225	1 9.4.1.62	56	1	T	Y	56.01 9.4.1.62	wrong reference is shown. The reference should be 9.6.28.2 HE Compressed Beamforming And CQI frame format.	As in the comment.	2017/1/9 9:42
10138	yujin noh	225	1 9.4.1.63	58	18	E	Y	58.18 9.4.1.63	Nc Index "field" should be replaced with Nc Index "subfield" as described in Table 9-76a	As in the comment.	2017/1/9 9:42
10139	yujin noh	225	1 9.4.1.63	58	19	E	Y	58.19 9.4.1.63	Nr Index "field" should be replaced with Nr Index "subfield" as described in Table 9-76a	As in the comment.	2017/1/9 9:42
10140	yujin noh	225	1 9.2.4.6.4.4	25	18	T	Y	25.18 9.2.4.6.4.4	complete the control information subfield format when Control ID subfield is 2 if needed	As in the comment.	2017/1/9 9:42
10141	yujin noh	225	1 9.2.4.6.4.4	25	8	E	Y	25.08 9.2.4.6.4.4	wrong reference is shown. The reference 9.31.4 should be 27.13 (Link adaptation using the HE variant HT Control field)	As in the comment.	2017/1/9 9:42
10142	yujin noh	225	1 9.4.2.200	73	14	E	Y	73.14 9.4.2.200	wrong reference is shown. The reference 25.14 should be 27.13 (Link adaptation using the HE variant HT Control field)	As in the comment.	2017/1/9 9:42
10143	yujin noh	225	1 9.4.2.200	73	40	E	Y	73.40 9.4.2.200	wrong reference is shown. The reference 25.14 should be 27.13 (Link adaptation using the HE variant HT Control field)	As in the comment.	2017/1/9 9:42
10144	yujin noh	225	1 10.9	127	27	E	Y	127.27 10.9	wrong reference is shown. The reference 10.31.4 should be 27.13 (Link adaptation using the HE variant HT Control field)	As in the comment.	2017/1/9 9:42
10145	yujin noh	225	1 27.13	198	60	T	Y	198.60 27.13	complete HE link adaptation operation in sub-clause 27.13 if needed	As in the comment.	2017/1/9 9:42
10146	yujin noh	225	1 28.4	371	15	T	Y	371.15 28.4	add PHY MIB in new sub-clause in 28.4 HE PLME	As in the comment.	2017/1/9 9:42
10147	yujin noh	225	1 9.3.1.20	40	7	E	Y	40.07 9.3.1.20	"STA info field" should be replaced with "STA Info field" use the capital letter "I" in "Info" in order to keep consistency throught the spec.	As in the comment.	2017/1/9 9:42
10148	yujin noh	225	1 27.6.2	176	29	E	Y	176.29 27.6.2	"receiver STAs" should be replaced with "recipient STAs" or "recipients" in order to keep consistency through the spec.	As in the comment.	2017/1/9 9:42
10149	yujin noh	225	1 27.6.2	176	22	E	Y	176.22 27.6.2	"HE NDP Announcement frame" and "NDP Announcement frame" are mixed in use. In order to keep consistency, "NDP Announcement frame" should be replaced with "HE NDP Announcement frame" in this sub-clause.	As in the comment.	2017/1/9 9:42
10150	yujin noh	225	1 27.6.2	176	46	E	Y	176.46 27.6.2	Nc Index "field" should be replaced with Nc Index "subfield" as described in Table 9-76a	As in the comment.	2017/1/9 9:42
10151	yujin noh	225	1 27.6.2	176	46	T	Y	176.46 27.6.2	no "Feedback Type subfield" defined in the STA Info subfield of the HE NDP Announcement frame. It should be replaced with "Feedback Type And Ng subfield" which indicates the feedback type and Ng jointly.	As in the comment.	2017/1/9 9:42

10152	yujin noh	225	1 27.6.2	176	62	T	Y	176.62 27.6.2	no "Beamformee STS Capability field" defined in Table 9-262aa HE PHY Capabilities Information field. Refer to "Beamformee STS For <= 80 MHz", "NSTS Total For <= 80 MHz", "Beamformee STS For > 80 MHz" and "NSTS Total For > 80 MHz" in Table 9-262aa	As in the comment.		2017/1/9 9:42
10153	yujin noh	225	1 27.6.2	177	1	T	Y	177.01 27.6.2	no "Feedback Type subfield" and "Ng field" defined in the STA Info subfield of the HE NDP Announcement frame. It should be replaced with "Feedback Type And Ng subfield" which indicates the feedback type and Ng jointly.	As in the comment.		2017/1/9 9:42
10154	yujin noh	225	1 27.6.2	177	5	E	Y	177.05 27.6.2	"RU Start Index" and "RU End Index" are replaced with "RU Start Index subfield" and "RU End Indexsubfield" in this paragraph (L4-L19) as described in Figure 9-51c.	As in the comment.		2017/1/9 9:42
10155	yujin noh	225	1 27.6.2	177	19	E	Y	177.19 27.6.2	Table YY-1 should be replaced with Table 9-76c	As in the comment.		2017/1/9 9:42
10156	yujin noh	225	1 27.6.2	177	36	T	Y	177.36 27.6.2	"Nc Index field" should be replaced with "Nc subfield" as described in Figure 9-51b. clarify the text "set the Nc Index field to 0 and the Ng field to 0." There is no Ng field in the NDP Announcement frame.	As in the comment.		2017/1/9 9:42
10157	yujin noh	225	1 27.6.2	177	52	E	Y	177.52 27.6.2	Resolution of the Figure 27-3 is not good for readers. Change the Figure 27-3 to have the letter clearly.	As in the comment.		2017/1/9 9:42
10158	yujin noh	225	1 27.6.2	177	55	E	Y	177.55 27.6.2	no AID subfield defined. "AID subfield" should be replaced with "AID11 subfield" as described in Figure 9-51b	As in the comment.		2017/1/9 9:42
10159	yujin noh	225	1 27.6.2	178	18	E	Y	178.18 27.6.2	Resolution of the Figure 27-4 is not good for readers. Change the Figure 27-4 to have the letter clearly.	As in the comment.		2017/1/9 9:42
10160	yujin noh	225	1 27.6.2	178	25	T	Y	178.25 27.6.2	"Beamforming Report Poll variant Trigger frame" and "Beamforming Report Poll Trigger frame" are mixed in use. In order to be consistent, choose one and mofigy the rest.	As in the comment.		2017/1/9 9:42
10161	yujin noh	225	1 27.6.2	178	41	E	Y	178.41 27.6.2	"RU start index" and "RU end index" should be modified with "RU Start Index" and "RU End Index" as described in Figure 9-51c.	As in the comment.		2017/1/9 9:42
10162	yujin noh	225	1 9.3.1.23	43	1	T	Y	43.01 9.3.1.23	The CS Required subfield is set to 1, ED-based CCA follows the same procedure as defined in VHT receiver specification. The rules describes the STA behaviors such that the STA shall start sensing the primary 20MHz channel first and then if present, additional secondary 20MHz channel, secondary 40MHz and secondary 80MHz channel(s) are measured to compare with the pre-determined CCA-ED threshold(s) depending on the operating channel. However when receiving the Trigger frame in 11ax, there might be a STA which is assigned to use the RU whose 20MHz channel(s) does not contain the primary 20MHz channel. ED-based CCA needs to be modified to sense either a single 20 MHz channel or multiple of 20 MHz channels which does not contain the primary 20MHz channel.	As in the comment.		2017/1/9 9:42

10163 yujin noh	225	1 28.3.10.10	314	1	T	Y	314.01 28.3.10.10	clarify the setence below how to recommended. "When a 1x, 2x or 4x HE-LTF is transmitted, it is recommended that the spatial mapping matrix applied to HE-STF and beyond is chosen such that it preserves the smoothness of the physical channel, achieved by limiting the variation of each element's real and imaginary values in the spatial mapping matrix across successive tones within one RU." If it is implement dependent, add the following sentence: The method used by the beamformer to recommend the spatial mapping matrix is implementation specific.	As in the comment.		2017/1/9 9:42
10164 yujin noh	225	1 27.6.2	178	60	E	Y	178.60 27.6.2	"RU start index" and "RU end index" should be modified with "RU Start Index" and "RU End Index" as described in Figure 9-51c.	As in the comment.		2017/1/9 9:42
10165 Yunbo Li	225	1 27.5.2.2.1	164	46	E	Y	164.46 27.5.2.2.1	The are two dots at the end of this sentence.	remove one dot.		2017/1/9 9:42
10166 Yunbo Li	225	1 27.5.2.2.1	164	63	E	Y	164.63 27.5.2.2.1	"more than one Trigger frame is ..." should changed to " more than one Trigger frames are..."	As in comment.		2017/1/9 9:42
10167 Yunbo Li	225	1 27.5.2.2.1	165	26	T	Y	165.26 27.5.2.2.1	In sentence,"The AP shall apply the Trigger Frame MAC Padding field with duration corresponding to the longest value among all STAs that have requested extra MinTrigProcTime through Trigger Frame MAC Padding Duration capability", only need to consider all triggered STAs.	change "among all STAs" to "among all triggered STAs"		2017/1/9 9:42
10168 Yunbo Li	225	1 27.5.2.3	167	55	T	Y	167.55 27.5.2.3	the condition for OFDMA random access (AID12 set to 0) is not included	change to "The received PPDU contains either a Trigger frame (that is not an MU-RTS variant) with a User Info field addressed to the STA or AID12 set to 0, or an MPDU,...".		2017/1/9 9:42
10169 Yunbo Li	225	1 27.5.2.3	167	59	T	Y	167.59 27.5.2.3	there is a TBD for unassociated STA	resolve the TBD		2017/1/9 9:42
10170 Yunbo Li	225	1 27.5.2.3	167	65	E	Y	167.65 27.5.2.3	"Otherwise, a STA shall not send an HE trigger-based PPDU" should be a separate paragraph.	As in comment.		2017/1/9 9:42
10171 Yunbo Li	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	"An HE AP receives either a VHT MU PPDU or an HE MU PPDU" is one of the conditions to determine an inter-BSS frame in Draft 1.0. But HE MU PPDU is allowed to be used in UL transmission (DL/UL indication in HE MU PPDU). When HE MU PPDU is transmitted by intra-BSS STA for UL transmission, it can not be determined as an inter-BSS frame.	Remove the condition of HE MU PPDU, or disallow HE MU PPDU for UL transmission.		2017/1/9 9:42
10172 Yunbo Li	225	1 27.5.2.4	170	23	T	Y	170.23 27.5.2.4	"ED-based CCA is described in 21.3.18.5.2 (CCA sensitivity for operating classes requiring CCA-ED)". There is a subclause for CCA-ED in 28.3.17.6.2, the ED-based CCA for UL MU CS is better to refer to this subclause. Same comment for other CCA reference of HE operation.	As in comment.		2017/1/9 9:42
10173 Yunbo Li	225	1 27.5.2.6.1	172	45	T	Y	172.45 27.5.2.6.1	"An HE STA shall use the OCWmin and OCWmax values indicated in the RAPS element within the most recently received Beacon or Probe Response regardless of the access category of traffic the HE STA intends to transmit." What's the reason that a STA using OFDMA random access will neglect the AC of the traffic?	Give the technical reasons. Otherwise, the OFDMA random access should also consider the AC of traffic.		2017/1/9 9:42
10174 Yunbo Li	225	1 27.5.2.6.2	173	46	E	Y	173.46 27.5.2.6.2	A dot is missed after AID value 0.	As in comment.		2017/1/9 9:42

10175 Yunbo Li	225	1 27.5.2.6.2	173	51	T	Y	173.51 27.5.2.6.2	It is not reasonable to let a STA randomly select a RU in the subsequent Trigger frame. Because it will cause severe collision in the subsequent Trigger frame without a backoff.	The STA should perform a backoff before randomly select a RU in the subsequent Trigger frame to avoid the severe collision.	2017/1/9 9:42
10176 Yunbo Li	225	1 27.5.2.6.2	173	36	T	Y	173.36 27.5.2.6.2	There is a confliction in the descriptions for STA1 to decrease its OBO counter when following below the two sentences. "if the OBO counter is smaller than the number of RUS assigned to AID value 0 in a Trigger frame, then the HE STA shall decrement its OBO counter to zero " and "HE STA1 and STA2 decrement their nonzero OBO counters by 1 in every RU assigned to AID value 0 for random access within the Trigger frame".	modify the sentences to make the descritions coincide with each other.	2017/1/9 9:42
10177 Yunbo Li	225	1 27.5.2.6.2	173	36	E	Y	173.36 27.5.2.6.2	"decrement" is a noun┼ ×a verb should be used here┬╥Θ	change "decrement" to "decrease".	2017/1/9 9:42
10178 Yunbo Li	225	1 28.3.17.6	348	58	T	Y	348.58 28.3.17.6	The CCA for preamble puncturing is missed in this subclause.	Add a subclause to decripte the CCA for preamble puncturing.	2017/1/9 9:42
10179 Yunbo Li	225	1 10.22.2.7	132	22	T	Y	132.22 10.22.2.7	The bandwidth select rule in current spec only allows the TXOP holder to set CH_BANDWIDTH same or narrower than preceding PPDU. After OFDMA is introduced, AP may communicate with multiple STAs that each STA occupies a narrow band than AP. In this case, when a STA initiate a TXOP with a narrow bandwidth, while AP could sensed a wider bandwidth at idle status, if the AP is allowed to use a wider bandwidth than the initiated STA, AP could communicate with the initial STA at a narrow bandwith wihch include primary 20MHz, and communicate with other STAs at secondary sub-channel which are busy for the initiated STA. It could be used to improve the system efficiency.	Discuss the fesibilty of the bandwidth extension during TXOP.	2017/1/9 9:42
10180 Yusuke Asai	225	1 3.2	4	9	T	N	4.09 3.2	Some conditions for an HE PHY to transmit 20 MHz non-HT/HT/VHT PPDUs applying 20 MHz spectral mask defined in Clause 28 may be needed as well as 40/80/160/80+80 MHz mask PDUs. Because the 20 MHz spectral mask for HE PHY is different from that for non-HT/HT/VHT╥╫PHY.	If needed, add some conditions.	2017/1/9 9:42
10181 Yusuke Asai	225	1 3.2	4	39	E	N	4.39 3.2	Redundant word of "(HE)" should be deleted.	As in comment.	2017/1/9 9:42
10182 Yusuke Asai	225	1 3.2	6	48	T	Y	6.48 3.2	To distinguish from "frequency segment", the definition of "frequency subbock" is needed.	Add the definition of it in Subclause 3.2.	2017/1/9 9:42
10183 Yusuke Asai	225	1 4.3.14a	9	29	T	Y	9.29 4.3.14a	The Mandatory/optional feature for UL MU-MIMO function should be clarified in the normative text.	As in comment.	2017/1/9 9:42
10184 Yusuke Asai	225	1 4.3.14a	9	38	T	Y	9.38 4.3.14a	The condition should also be applied to an 80+80 MHz channel.	"a 160 MHz channel" -> "a 160 MHz or 80+80 MHz channel"	2017/1/9 9:42
10185 Yusuke Asai	225	1 4.3.14.a	9	43	T	Y	9.43 4.3.14.a	According to the condition "Optional support for 1024-QAM on 242-, 484- and 996-tones RUs", the HE PHY spec does not allow to use 1024-QAM on a 2x996-tone RU. On the other hands, in P317L42, the text "LDPC is the only FEC coding scheme in the HE PPDU Data field for MCS10 and MCS11 in a 242-, 484-, 996- and 2x996-tone RU." suggests that 1024QAM may be used on a 2x996-tone RU. These two sentences contradicts with each other.	Fix it.	2017/1/9 9:42
10186 Yusuke Asai	225	1 4.3.14a	9	51	E	N	9.51 4.3.14a	As well as the other clauses, "basic trigger frame" should be captalized.	As in comment.	2017/1/9 9:42

10187	Yusuke Asai	225	1 4.3.14a	9	60	T	N	9.60 4.3.14a	"MU OFDMA" should be "OFDMA" because OFDMA is an MU transmission inherently.	As in comment.		2017/1/9 9:42
10188	Yusuke Asai	225	1 4.3.14a	9	62	T	N	9.62 4.3.14a	"transmission resource" should be "RUs".	As in comment.		2017/1/9 9:42
10189	Yusuke Asai	225	1 6.3.3.3.2	11	22	E	N	11.22 6.3.3.3.2	"BSSDescription" -> "BSSDescriptionSet"	As in comment.		2017/1/9 9:42
10190	Yusuke Asai	225	1 6.3.3.3.2	11	21	T	Y	11.21 6.3.3.3.2	This change for the primitive parameters should be also added to "HE Capabilities" and "HE Operation".	As in comment.		2017/1/9 9:42
10191	Yusuke Asai	225	1 9.3.1.9.1	34	10	T	Y	34.10 9.3.1.9.1	The first bit of "Reserved" field is not B6 but B5.	Revise it.		2017/1/9 9:42
10192	Yusuke Asai	225	1 17.2.2.1	145	22	T	Y	145.22 17.2.2.1	In Clause 17, a TXVECTOR parameter "TRIGGER_RESPONDING" and the corresponding requirement of pre-correction accuracy are defined. It is seemed that this TXVECTOR parameter is true when an STA respond to a trigger frame; however, there is no definition about it.	Clarify it and add some normative text.		2017/1/9 9:42
10193	Yusuke Asai	225	1 27.2.1	150	19	E	N	150.19 27.2.1	"cannot be" should be "is not".	As in comment.		2017/1/9 9:42
10194	Yusuke Asai	225	1 27.9.1	190	11	T	Y	190.11 27.9.1	There is no definition of "SR PPDU."	Define it on Subclause 3.2 or delete it.		2017/1/9 9:42
10195	Yusuke Asai	225	1 27.9.2.2	191	10	E	N	191.10 27.9.2.2	"OBSSPD" should be "OBSS_PD"	As in comment.		2017/1/9 9:42
10196	Yusuke Asai	225	1 28.1.1	209	59	T	Y	209.59 28.1.1	QPSK DCM is defined in some HE-MCSs tables but not stated here.	Add "QPSK DCM" after "(QPSK)".		2017/1/9 9:42
10197	Yusuke Asai	225	1 28.1.1	210	39	E	N	210.39 28.1.1	"1x" -> "1x LTF"	As in comment.		2017/1/9 9:42
10198	Yusuke Asai	225	1 28.2.2	216	47	E	Y	216.47 28.2.2	The conditions of CHAN_MAT_TYPE for HE_MU, HE_EXT_SU, or HE_TRIG appear twice.	Fix it.		2017/1/9 9:42
10199	Yusuke Asai	225	1 28.2.2	219	25	T	Y	219.25 28.2.2	The condition when RSSI_LEGACY exists is not clear. In addition, "PHY legacy preamble" is not clear whether non-HE portion preamble in an HT/VHT/HE PPDU or PLCP preamble in a Non-HT PPDU.	Clarify it.		2017/1/9 9:42
10200	Yusuke Asai	225	1 28.3.3.10.4	240	19	T	Y	240.19 28.3.3.10.4	The title of this subclause should be changed to "Maximum number of spatial streams in UL MU-MIMO". An HE trigger-based PPDU carries an uplink OFDMA transmission; however, the context of this subclause only expialns about UL MU-MIMO transmissions.	As in comment.		2017/1/9 9:42
10201	Yusuke Asai	225	1 28.3.4	241	53	E	N	241.53 28.3.4	"Figure 28-8" -> "Table 28-8".	As in comment.		2017/1/9 9:42
10202	Yusuke Asai	225	1 28.3.5	244	21	T	N	244.21 28.3.5	For clarification, the note of "N_STS is 2 only for HE extend rage SU PPDU." should be added.	As in comment.		2017/1/9 9:42
10203	Yusuke Asai	225	1 28.3.5	247	18	T	Y	247.18 28.3.5	The first and last user indices should be 0 and N_{u-1}, respectiely. Because the user index range is defined as "u takes values 0 to NUM_USERS-1." in Clause 28 (ex. Table 28-12). In addition, N_u should be N_user.	As in comment.		2017/1/9 9:42
10204	Yusuke Asai	225	1 28.3.5	249	8	T	Y	249.08 28.3.5	The input of the first IDFT on the first transmit chain of the first frequency segment shoud be connected to the output of the Spatial Mapping of the second frequency segment.	Fix it.		2017/1/9 9:42
10205	Yusuke Asai	225	1 28.3.6.4	250	43	T	N	250.43 28.3.6.4	The subclause 28.3.10.5 (L-SIG) should be referred. Ditto in P251L11 .	Add a reference of the subclause "28.3.10.5 (L-SIG)" in the bullet item f) .		2017/1/9 9:42
10206	Yusuke Asai	225	1 28.3.6.6	251	50	E	N	251.50 28.3.6.6	"inverse Fourier transform" -> "inverse discrete Fourier transform"	As in comment.		2017/1/9 9:42
10207	Yusuke Asai	225	1 28.3.6.8	253	23	E	N	253.23 28.3.6.8	Subclause number error (21.3.10.->28.3.10). Ditto in P253L46.	As in comment.		2017/1/9 9:42
10208	Yusuke Asai	225	1 28.3.6.11.4	255	52	E	N	255.52 28.3.6.11.4	"Q" in "Q matrix" should be italic.	As in comment.		2017/1/9 9:42
10209	Yusuke Asai	225	1 28.3.8	260	6	T	Y	260.06 28.3.8	The TXVECTOR parameter NUM_USERS_TOTAL does not exist on Table 28-1 (TXVECTOR and RXVECTOR parameters)	Define the TXVECTOR parameter or revise the explanation of N_{user,r}.		2017/1/9 9:42
10210	Yusuke Asai	225	1 28.3.10.7.2	275	33	T	Y	275.33 28.3.10.7.2	"Doppler mode" is defined in an HE-SIG-A; however, there is no specific text for the definition of it and how a transmitter and a receiver should utilize this information. In addition, when this parameter should be enabled is not clear.	Clarify them add some normative text.		2017/1/9 9:42

10211	Yusuke Asai	225	1 28.3.10.7.2	275	36	T	Y	275.36 28.3.10.7.2	"bits 0 to 41 of the HE-SIG-A field" should be "bits 0-25 of HE-SIG-A1 and bits 0-15 of HE-SIG-A2" Ditto in P278L18, P281L15 and P282L48.	As in comment.	2017/1/9 9:42
10212	Yusuke Asai	225	1 28.3.10.7.2	277	16	T	Y	277.16 28.3.10.7.2	As well as other values, the case for value of 7 should be defined as which channel is punctured. Current definition is not clear whether secondary 40 MHz in the primary 80 MHz exists or not.	Change "the primary 40 MHz is present." to "only the secondary 40 MHz is punctured."	2017/1/9 9:42
10213	Yusuke Asai	225	1 28.3.10.7.2	282	39	E	N	282.39 28.3.10.7.2	"set Spatial Reuse to x" should be "Spatial Reuse shall be set to x".	As in comment.	2017/1/9 9:42
10214	Yusuke Asai	225	1 28.3.10.7.4	284	32	T	Y	284.32 28.3.10.7.4	The definitions of HE-SIG-Ax (x=1,2,3,4) for an HE extended range SU PPDU is inconsistent with Table 28-18.	Revise it. For example, replace HE-SIG-A1, HE-SIG-A2, HE-SIG-A3 and HE-SIG-A4 with HE-SIG-A11, HE-SIG-A12 HE-SIG-A21 HE-SIG-A22, respectively. In addition, some text changes are needed accordingly.	2017/1/9 9:42
10215	Yusuke Asai	225	1 28.3.10.7.4	285	5	T	Y	285.05 28.3.10.7.4	The numbering for HE-SIG-* are missed.	Fix them.	2017/1/9 9:42
10216	Yusuke Asai	225	1 28.3.10.8.2	286	33	T	Y	286.33 28.3.10.8.2	HE-SIG-B for 80+80 MHz PPDU is not defined.	Define it.	2017/1/9 9:42
10217	Yusuke Asai	225	1 28.3.10.8.4	292	4	T	Y	292.04 28.3.10.8.4	According to the definition of y2y1y0, z2z1z0, y1y0 and z1z0, some of 8 bits indicates in Table 28-21 are incorrect. For example, the cases of RUs of 242, 484 and 996 cannot be defined by y2y1y0 because the y2y1y0 is for 106-tone RUs.	Correct erros in Table 28-21 and/or revise the definitions of y2y1y0, z2z1z0, y1y0 and z1z0.	2017/1/9 9:42
10218	Yusuke Asai	225	1 28.3.10.8.5	293	61	E	N	293.61 28.3.10.8.5	"802.11ax" should be changed to "HE PHY" or something else.	As in comment.	2017/1/9 9:42
10219	Yusuke Asai	225	1 28.3.10.8.5	297	28	T	N	297.28 28.3.10.8.5	According to P213L54, the minimum number of users per HE MU PPDU is defined as one; howvever, in Table 28-24, N_user starts from two. As well as a VHT MU PPDU, it may be needed that an HE MU PPDU support "one user" transmission.	If necessary, add the case for N_user of one.	2017/1/9 9:42
10220	Yusuke Asai	225	1 28.3.11.5	317	46	E	N	317.46 28.3.11.5	"(#838)" should be deleted.	As in comment.	2017/1/9 9:42
10221	Yusuke Asai	225	1 28.3.11.9	327	40	E	N	327.40 28.3.11.9	Reference error.	Revise "18.3.5.8" to "17.3.5.8 (Subcarrier modulation mapping)".	2017/1/9 9:42
10222	Yusuke Asai	225	1 28.3.11.10	327	58	E	N	327.58 28.3.11.10	Refernce number error.	Replace "22.3.10.9.4" with "21.3.10.9.4".	2017/1/9 9:42
10223	Yusuke Asai	225	1 28.3.11.11	329	46	E	N	329.46 28.3.11.11	Reference souce error.	Fix it.	2017/1/9 9:42
10224	Yusuke Asai	225	1 28.3.11.11	329	49	T	N	329.49 28.3.11.11	"BCC-coded streams" should be "BCC-coded spatial streams".	As in comment.	2017/1/9 9:42
10225	Yusuke Asai	225	1 28.3.11.12	330	39	E	N	330.39 28.3.11.12	iSeg should be italic and "Seg" should be subscript.	As in comment.	2017/1/9 9:42
10226	Yusuke Asai	225	1 28.3.17.3	345	64	E	N	345.64 28.3.17.3	"Table xx-a" -> "Table 28-41".	As in comment.	2017/1/9 9:42
10227	Yusuke Asai	225	1 28.3.17.4	347	11	E	N	347.11 28.3.17.4	"W" should be italic.	As in comment.	2017/1/9 9:42
10228	Yusuke Asai	225	1 28.3.19	362	44	T	N	362.44 28.3.19	Reference error.	Add a correct reference.	2017/1/9 9:42
10229	Yusuke Asai	225	1 28.3.19	362	57	E	N	362.57 28.3.19	Subclause number error. 22.3.18.5 -> 21.3.18.5.	As in comment.	2017/1/9 9:42
10230	Yusuke Asai	225	1 28.3.19	362	57	E	N	362.57 28.3.19	Subclause number error. 7.3.5.12 -> 8.3.5.12.	As in comment.	2017/1/9 9:42
10231	Yusuke Asai	225	1 28.3.19	360	40	T	Y	360.40 28.3.19	Signal extension appears on this subclause; however, no definition is found in the draft.	Add the normative text or delete signal extension throughout the draft if it is not needed.	2017/1/9 9:42
10232	Yusuke Asai	225	1 28.3.19	364	37	T	N	364.37 28.3.19	The rectangle blocks of "Packet Extension?" and "Signal Extension?" should be rhombuses because they are conditional branches.	As in comment.	2017/1/9 9:42
10233	Yusuke Asai	225	1 28.3.19	368	62	E	N	368.62 28.3.19	Reference number. 22.3.18.5 -> 21.3.18.5.	As in comment.	2017/1/9 9:42
10234	Yusuke Asai	225	1 28.5	373	23	T	Y	373.23 28.5	It makes no sense to state "mandatory" or "optional" in the title of each MCS table. Mandatory/optional features are defined in normative text and summalized in PICS (Annex B). There are many tables that includ both mandatory and optional MCS indices. For example, in table 28-48 (HE-MCSs for mandatory 26-tone RU, NSS = 2), all of MCS indices are defined as optional for non-AP STAs.	Delete "mandatory" and "optional" in the caption of the table 28-47 to 28-102.	2017/1/9 9:42
10235	Yusuke Asai	225	1 B.4.3	407	42	T	Y	407.42 B.4.3	"CFHEW" is not defined but referred many times. The term of HEW is not used in other Clauses. Instead of "HEW", "HE" should be used.	Replace all of CFHEW* with CFHE* in Annex B. (* is a wildcard including null.)	2017/1/9 9:42

10236	Yusuke Asai	225	1 B.4.27	410	34	T	Y	410.34 B.4.27	"High Efficiency WLAN (HEW)" should be replaced with "High Efficiency (HE)". Also, HEW should replaced with HE in P410L36, P413L21	As in comment.		2017/1/9 9:42
10237	Yusuke Tanaka	225	1 3.2	4	31	E	N	4.31 3.2	"a HE" should be "an HE". Same comments on whole of this document.	As commented.		2017/1/9 9:42
10238	Yusuke Tanaka	225	1 9.3.1.23.6	51	30	T	Y	51.30 9.3.1.23.6	The operation and the frame for GCR with MU-BAR is defined in this spec, but a hole in a receiver's Block Ack bitmap problem (previously known since11aa) remains. It can be solved by GCR MU-BAR variant with a bitmap of sequence numbers corresponding to the GCR stream.	Add GCR sequence number bitmap in Trigger Dependent Common Info field for the GCR MU-BAR variant.		2017/1/9 9:42
10239	Yusuke Tanaka	225	1 10.3.2.8a.1	116	37	E	N	116.37 10.3.2.8a.1	"HE TB PPDU" is not defined.	Use "HE trigger-based PPDU" in this figure.		2017/1/9 9:42
10240	Yusuke Tanaka	225	1 10.22.2.2	130	2	E	N	130.02 10.22.2.2	"trigger based" should be "trigger-based" Same comments on P130L7, P130L12, P145L65, P225L4, P359L16, P369L6.	As commented.		2017/1/9 9:42
10241	Yusuke Tanaka	225	1 27.2.1	149	20	T	Y	149.20 27.2.1	It is described that inter-BSS or intra-BSS frame can be identified by its MAC address. From the aspect of early identification for SR, it is beneficial to clarify that the identification of inter-BSS frame is realized per MPDU in the A-MPDU.	Add the following condition for inter-BSS frame identification. "The MAC address of a MPDU with valid FCS in the received A-MPDU is not the MAC address of members of the BSS with which the STA is associated."		2017/1/9 9:42
10242	Yusuke Tanaka	225	1 27.2.1	150	13	T	Y	150.13 27.2.1	It is obvious that if the received signal is not IEEE Std 802.11 transmission it is an inter-BSS frame.	Add the following condition for inter-BSS frame identification. "An HE STA receives signal which is not NON_HT, HT_MF, HT_GF, VHT or HE PPDU."		2017/1/9 9:42
10243	Yusuke Tanaka	225	1 27.2.1	150	15	T	Y	150.15 27.2.1	A precedence rule of PARTIAL_AID should be defined.	Add "or PARTIAL_AID" at the end of the sentence.		2017/1/9 9:42
10244	Yusuke Tanaka	225	1 27.2.1	150	19	T	Y	150.19 27.2.1	If the received frame does not satisfy any of the intra-BSS and inter-BSS conditions, the frame can be defined as inter-BSS frame to improve benefit of OBSS_PD based SR. Even in case if the intra-BSS frame is identified as inter-BSS frame by erroneous detection, received power level of intra-BSS frame is usually high so that OBSS_PD based SR mechanism does not allow to transmit overlapping the frame and prevent interfering.	Replace "then the frame cannot be determined as intra-BSS or inter-BSS frame." with "then the frame can be determined as inter-BSS frame."		2017/1/9 9:42
10245	Yusuke Tanaka	225	1 27.2.1	150	19	E	Y	150.19 27.2.1	This sentence does not provide any information about specification and what it mentions here is beyond the spec.	Delete this sentence.		2017/1/9 9:42
10246	Yusuke Tanaka	225	1 27.2.2	150	48	T	Y	150.48 27.2.2	Static NAV can provide MAC level power save without suffering with unpredictable NAV updating.	Add the following rule at L48. "An HE AP may indicate that the NAV set by the Duration field in the PPDU will not be updated." Add the following rule at L59 and P151L5 "If an HE non-AP STA receives a PPDU with indication that the NAV set by the Duration field in the PPDU will not be updated, the HE non-AP STA may enter the doze state until the end of the NAV."		2017/1/9 9:42
10247	Yusuke Tanaka	225	1 27.2.2	151	51	T	Y	151.51 27.2.2	The condition does not cover the case two NAVs are reset at the same time.	Add "or two NAVs are reset at the same time" after "other NAV timer is 0,"		2017/1/9 9:42
10248	Yusuke Tanaka	225	1 27.2.3	152	29	T	Y	152.29 27.2.3	The operation when the HEMUEDCATimer[AC] reaches zero should consider the retry counters (SSRC/SLRC). The retry counters should be reset to 0 at updating of EDCA parameters, otherwise the STA would give up retransmission after only one transmission with CWmin.	Add the following texts at the end. "When the STA update the CWmin[AC], CWmax[AC] and AIFSN[AC] either, The SSRC and the SLRC shall be reset to 0.		2017/1/9 9:42

10249	Yusuke Tanaka	225	1 27.2.3	152	29	T	Y	152.29 27.2.3	To ensure that the STA receives EDCA Parameter Set element, the trigger frame may contain EDCA Parameter Set element.	Add "in the Trigger frame" after "EDCA Parameter Set element". Define EDCA Parameter Set element in Common Infor field of Trigger frame format in P42L6	2017/1/9 9:42
10250	Yusuke Tanaka	225	1 27.2.3	152	56	T	Y	152.56 27.2.3	Two NAVs is defined in this spec but the current RA field of CF-END is broadcast and an HE STA can not decide which NAV should be reset when it receives CF-END.	Define a new CF-END frame whose RA is the address of the intended STA.	2017/1/9 9:42
10251	Yusuke Tanaka	225	1 27.4.1	157	21	E	N	157.21 27.4.1	The first sentence does not provide any information about specification and would mislead the readers to misunderstand that these two blockack frames are only permitted.	Delete the first sentence in this paragraph.	2017/1/9 9:42
10252	Yusuke Tanaka	225	1 27.4.1	157	61	E	N	157.61 27.4.1	"MU-BAR variant Trigger frame" is lengthy expression so just simplify "MU-BAR frame" as 10.24.10.3. Same expressions can be found in whole of the section 27.4.	As commented.	2017/1/9 9:42
10253	Yusuke Tanaka	225	1 27.4.4.2	160	53	E	N	160.53 27.4.4.2	The brackets of (or Implicit BAR) are not necessary.	As commented.	2017/1/9 9:42
10254	Yusuke Tanaka	225	1 27.4.4.3	161	12	E	N	161.12 27.4.4.3	('01') is not necessary.	As commented.	2017/1/9 9:42
10255	Yusuke Tanaka	225	1 27.4.4.4	161	42	E	N	161.42 27.4.4.4	"Single MPDU" should be "S-MPDU". Same expressions can be found in whole of the section 27.4.4.4.	As commented.	2017/1/9 9:42
10256	Yusuke Tanaka	225	1 27.4.4.5	162	15	E	N	162.15 27.4.4.5	"Single MPDU" should be "S-MPDU".	As commented.	2017/1/9 9:42
10257	Yusuke Tanaka	225	1 27.4.4.5	162	26	E	N	162.26 27.4.4.5	An extra period at the end of the sentence.	As commented.	2017/1/9 9:42
10258	Yusuke Tanaka	225	1 27.5.2.1	164	26	E	N	164.26 27.5.2.1	This rule should cover non class A or class B STAs.	Replace "A STA that is a class B device" with "A STA that is not a class A device"	2017/1/9 9:42
10259	Yusuke Tanaka	225	1 27.5.2.2.1	164	46	E	N	164.46 27.5.2.2.1	An extra period after "access allocation).".	As commented.	2017/1/9 9:42
10260	Yusuke Tanaka	225	1 27.5.2.2.2	166	10	T	Y	166.10 27.5.2.2.2	This rule conflict with the rule described in P164L63. Here it says "An AP shall set all the subfields, except the Trigger Type subfield, of the Common Info field of a Trigger frame to the same value (omitted) carried in the same PPDU" but P164L63 says "If more than one Trigger frame is aggregated in an A-MPDU, all of them shall have the same content."	Resolve the conflict.	2017/1/9 9:42
10261	Yusuke Tanaka	225	1 27.5.2.2.2	166	64	E	N	166.64 27.5.2.2.2	Need space between the period and "A value 0 ...".	As commented.	2017/1/9 9:42
10262	Yusuke Tanaka	225	1 27.5.2.2.2	167	1	E	N	167.01 27.5.2.2.2	Need space between the period and "A value greater ...".	As commented.	2017/1/9 9:42
10263	Yusuke Tanaka	225	1 27.5.2.2.3	167	26	E	N	167.26 27.5.2.2.3	The correct subclause number is 10.22.2.7.	As commented.	2017/1/9 9:42
10264	Yusuke Tanaka	225	1 27.5.2.2.3	167	30	E	N	167.30 27.5.2.2.3	The correct subclause number is 10.22.2.2.	As commented.	2017/1/9 9:42
10265	Yusuke Tanaka	225	1 27.5.2.2.3	167	30	E	N	167.30 27.5.2.2.3	"i.e., transmission failure" is not necessary.	As commented.	2017/1/9 9:42
10266	Yusuke Tanaka	225	1 27.5.2.2.2	167	40	T	Y	167.40 27.5.2.2.2	The spec should define the acknowledgement rule when the AP received a MPDU which contains lower priority traffic than the Preferred AC subfield in the Trigger frame transmitted prior to the response. The AP should acknowledge for even the violating responders for the medium efficiency.	Add texts as follows. "The AP shall respond to MPDUs which contain lower priority traffic than the Preferred AC subfield in the Trigger frame with AC Preference Level subfield set to 1 transmitted prior to the MPDUs."	2017/1/9 9:42
10267	Yusuke Tanaka	225	1 27.5.2.3	168	15	E	N	168.15 27.5.2.3	"that BSS" should be one the STA is associated.	Replace "that BSS" with "the BSS with which the STA is associated"	2017/1/9 9:42
10268	Yusuke Tanaka	225	1 27.5.2.3	169	50	E	N	169.50 27.5.2.3	The title of the referred subclause is missing.	Add the title of the subclause.	2017/1/9 9:42
10269	Yusuke Tanaka	225	1 27.5.2.3	170	15	E	N	170.15 27.5.2.3	An extra period at the end of sentence.	As commented.	2017/1/9 9:42
10270	Yusuke Tanaka	225	1 27.5.2.4	170	20	T	Y	170.20 27.5.2.4	These spec texts in this subclause misuse the terminology "CCA-ED". This terminology problem was discussed in 15/0338r1. CCA-ED is the threshold that is used for specific operation bands to improve spectral sharing. Because of this misuse, the spec texts about CCA-ED in this subclause do not make sense.	Delete texts which mention CCA-ED in this subclause.	2017/1/9 9:42
10271	Yusuke Tanaka	225	1 27.5.2.4	170	26	T	Y	170.26 27.5.2.4	Two-NAVs is mandatory for HE non-AP STA.	Replace "A NAV is" with "An intra-BSS NAV and a basic NAV are".	2017/1/9 9:42

10272 Yusuke Tanaka	225	1 27.5.2.4	170	32	T	Y	170.32 27.5.2.4	This sentence can be simple using "a intra-BSS NAV".	Replace this sentence with as follows. "The intra-BSS NAV was set."	2017/1/9 9:42
10273 Yusuke Tanaka	225	1 27.5.2.5	171	39	E	N	171.39 27.5.2.5	Editorial notes of D0.x are left at the end of the sentence.	As commented.	2017/1/9 9:42
10274 Yusuke Tanaka	225	1 27.5.2.6.2	173	46	E	N	173.46 27.5.2.6.2	Space and period is missing between "AID value0" and "If the selected...".	As commented.	2017/1/9 9:42
10275 Yusuke Tanaka	225	1 27.5.2.7	174	21	T	Y	174.21 27.5.2.7	This subclause defines short feedback, but the texts are insufficient.	Define more specification of short feedback to realize efficient and reliable mechanism without data payload transmission.	2017/1/9 9:42
10276 Yusuke Tanaka	225	1 27.5.2.8	175	22	T	Y	175.22 27.5.2.8	The short feedbacks mechanism is suitable for collecting information from the STAs like PS-Poll information or BSS color information the STAs detect in PPDUs from OBSS.	Define specification of short feedback to collect PS-Poll information and BSS color information the STAs detect in OBSS PPDUs. By allocating keys (indexes) on each RU and the AP announces the allocations to STAs, the collecting mechanism can be realized.	2017/1/9 9:42
10277 Yusuke Tanaka	225	1 27.7.1	180	15	T	Y	180.15 27.7.1	"An AP" and "A STA" should be "An HE AP" and "An HE STA".	As commented.	2017/1/9 9:42
10278 Yusuke Tanaka	225	1 27.7.2	180	39	E	N	180.39 27.7.2	No period at the end. L41, L44 and L46, neither.	Add period.	2017/1/9 9:42
10279 Yusuke Tanaka	225	1 27.7.2	181	19	E	N	181.19 27.7.2	"of" may be needed between "transmission" and "a Trigger". L28, neither.	Add "of".	2017/1/9 9:42
10280 Yusuke Tanaka	225	1 27.7.3.2	184	17	E	N	184.17 27.7.3.2	"of" may be needed between "transmission" and "a Trigger". L25, neither.	Add "of".	2017/1/9 9:42
10281 Yusuke Tanaka	225	1 27.7.4	187	23	E	N	187.23 27.7.4	No period at the end, and most of the sentences in this list, neither.	As commented.	2017/1/9 9:42
10282 Yusuke Tanaka	225	1 27.9.2.1	190	50	T	Y	190.50 27.9.2.1	The rule to determine the length of PPDU transmitted under the OBSS_PD based SR mechanism should be defined. If the length of the PPDU is over the end of the inter-BSS PPDU, it could be unintentional interference on other STAs.	Add "If the PHYCCARESET.request primitive is issued and the STA intends to transmit a PPDU with transmit power adjustment under the rule described in 27.9.2.2(Adjustment of OBSS_PD and transmit power), the STA shall generate a PPDU of which the duration does not exceed the end of the Inter-BSS PPDU.	2017/1/9 9:42
10283 Yusuke Tanaka	225	1 27.9.2.1	190	50	E	N	190.50 27.9.2.1	This sentence is incomplete.	Delete this sentence.	2017/1/9 9:42
10284 Yusuke Tanaka	225	1 27.9.2.2	191	62	E	N	191.62 27.9.2.2	"OBSS_Pdmin_default" and "OBSS_Pdmax_default" are not used in any equations. These definition should not be as variables.	Define as follows. "The default value of OBSS_PDmin is -82 dBm and the default value of OBSS_PDmax is -62 dBm."	2017/1/9 9:42
10285 Yusuke Tanaka	225	1 27.9.2.2	191	64	E	N	191.64 27.9.2.2	The expression of "the antenna connector" should be aligned with P192L17.	Replace it with "the output of the antenna connector."	2017/1/9 9:42
10286 Yusuke Tanaka	225	1 27.9.2.2	192	17	E	N	192.17 27.9.2.2	Unnecessary comma before "shall be equal ...".	As commented.	2017/1/9 9:42
10287 Yusuke Tanaka	225	1 27.9.2.2	192	20	E	N	192.20 27.9.2.2	"TB PPDU" is not defined.	Replace it with "HE trigger-based PPDU"	2017/1/9 9:42
10288 Yusuke Tanaka	225	1 27.10.2	192	41	E	N	192.41 27.10.2	Need space between the period and "An HE ...".	As commented.	2017/1/9 9:42
10289 Yusuke Tanaka	225	1 27.10.4	193	32	E	N	193.32 27.10.4	The structure of texts can be better.	Divide this sub clause into some chapters.	2017/1/9 9:42
10290 Yusuke Tanaka	225	1 27.11.2	196	19	T	Y	196.19 27.11.2	What parameter should be used for Public Action frame sent from an AP to an AP?	Define what parameter should be used for Public Action frame.	2017/1/9 9:42
10291 Yusuke Tanaka	225	1 27.11.4	197	26	T	Y	197.26 27.11.4	This rule contradict the rule described in P196L49.	Delete this sentence.	2017/1/9 9:42
10292 Yusuke Tanaka	225	1 27.11.5	198	5	T	Y	198.05 27.11.5	The condition which this rule is based on is prohibited by the rule described in P197L40.	Remove this rule.	2017/1/9 9:42
10293 Yusuke Tanaka	225	1 27.14.2	200	5	E	N	200.05 27.14.2	The resolution of the figure is too low.	Replace it with a higher resolution figure.	2017/1/9 9:42
10294 Yusuke Tanaka	225	1 27.14.2	200	21	E	N	200.21 27.14.2	"and" may be needed between "Broadcast subfield" and "a value of 2".	Add "and".	2017/1/9 9:42
10295 Yusuke Tanaka	225	1 27.14.2	200	27	T	Y	200.27 27.14.2	In case the AP need to terminate the sequence earlier, it is beneficial to define a method to transmit a Trigger frame not to intend to solicit PPDUs.	Add texts as follows. "The last Trigger frame can solicit no HE trigger-based PPDUs for early terminate of the sequence."	2017/1/9 9:42
10296 Yusuke Tanaka	225	1 27.16.1	204	32	E	N	204.32 27.16.1	The first sentence does not provide any information about specification.	Delete the sentence.	2017/1/9 9:42
10297 Yusuke Tanaka	225	1 27.16.1	205	61	E	N	205.61 27.16.1	"A STA" at the beginning of the sentence should be "An HE STA".	As commented.	2017/1/9 9:42

10298 Yusuke Tanaka	225	1 27.16.2	206	25	E	N	206.25 27.16.2	It can be said that the same BSS color is used in OBSS if it detect that there is OBSS STAs using the same BSS color. In addition "OBSS" is always "other" so these are duplicated.	Replace "other OBSS AP" with "OBSS AP or STA"	2017/1/9 9:42
10299 Yusuke Tanaka	225	1 27.16.2	206	28	T	Y	206.28 27.16.2	The algorithm to choose a new BSS Color is beyond the scope of this standard, but it is beneficial to define frames and procedure to gather color information.	Add texts as follows. "An HE non-AP STA may report the information of BSS color in the PPDUs it received before the association via the BSS Color Statistics Report element(TBD) in Probe Request or (Re)Association Request frames."	2017/1/9 9:42
10300 Yusuke Tanaka	225	1 27.16.2	206	32	T	Y	206.32 27.16.2	P92L19 defines the rule to set the BSS Color Disable subfield to 1 at detecting BSS Color overlapping. The whole operation of BSS Color change should be described here including BSS Color Disable subfield setting.	Add texts as follows after "(Re)Association Response frames.". The AP shall set the BSS Color Disable subfield to 1.	2017/1/9 9:42
10301 Yusuke Tanaka	225	1 27.16.2	206	43	T	Y	206.43 27.16.2	The surrounding STAs not associating the BSS under spatial reuse operation with intra/inter-BSS frame identification could lose opportunity of spatial reuse during the time leading up to the BSS color change TBTT.	Add texts as follows. "an HE AP shall set the existing BSS Color in BSS Color field in HE-SIG-A."	2017/1/9 9:42
10302 Yusuke Tanaka	225	1 27.16.3.1	207	7	T	Y	207.07 27.16.3.1	"should" is ambiguous expression.	Use "shall" or remove this sentence.	2017/1/9 9:42
10303 Yusuke Tanaka	225	1 27.16.3.2	207	22	E	N	207.22 27.16.3.2	"Requester AP" in the figure should be "Responder AP".	As commented.	2017/1/9 9:42
10304 Yusuke Tanaka	225	1 28.3.10.7.2	274	33	E	N	274.33 28.3.10.7.2	The description about a 4x HE-LTF and 0.8 us GI should be also added in the DCM and STBC cells.	As commented.	2017/1/9 9:42
10305 Yusuke Tanaka	225	1 28.3.10.7.2	281	49	T	Y	281.49 28.3.10.7.2	Table 28-19 defines the Spatial Reuse subfield encoding but no procedures of SR operation based on SRP is defined in this spec.	Define procedures of SR operation based on SRP, which should include Tx power controlling not only for a Data frame and but Control frames (e.g. RTS/CTS/CF-End).	2017/1/9 9:42
10306 Yusuke Tanaka	225	1 28.3.10.7.2	282	29	T	Y	282.29 28.3.10.7.2	The equation to define SRP is incorrect from the aspect of dBm unit.	Change SRP definition as follows. "SRP is the sum of the value of TX PWRAP and the value of Acceptable Receiver Interference levelAP." Remove "dBm" from Table 28-19.	2017/1/9 9:42
10307 Yusuke Tanaka	225	1 28.3.17.6.2	348	1	T	Y	348.01 28.3.17.6.2	CCA-ED is given in Table D-2 as written in this section. In this Table 2-5, encoding=1 is assigned to CCA-EDBehavior saying that "CCA shall also detect a medium busy condition when CCAEnergyDetect detects a channel busy condition." Also in the following sentence in this section says; "The operating classes requiring the corresponding CCA-ED behavior class are given in E.1 (Country information and operating classes)." Please note that 11ax D1.0 doesn't include amendment to Annex-E in 11mc so I refer tables in 11mc. If you refer Table E-1 for US, only operating class=13, 14 & 15 requires "CCA-EDBehavior" and these operating channels are 3GHz band. In Table E-2 for EU and E-3 for Japan don't include "CCA-EDBehavior".	Either Remove section 28.3.17.6.2 entirely, or Add specifications for 3GHz operation to clause 28.	2017/1/9 9:42

10308	Yusuke Tanaka	225	1 28.3.17.6.4	349	21	T	Y	349.21 28.3.17.6.4	OBSS_PD is only available if the PPDU can be identified as an inter-PPDU. On the other hand the secondary 20MHz channel sensing threshold during aCCAMidTime can be applied for any IEEE Std 802.11 transmission. What is the reason to use OBSS_PD level during aCCAMidTime for any PPDUs without identification of inter-BSS frames? Same comments on secondary 40 MHz channel and 80 MHz channel cases.	Add technical description to explain the reason to apply OBSS_PD to the secondary 20MHz channel sensing threshold during aCCAMidTime. If not, remove OBSS_PD.		2017/1/9 9:42
10309	Yusuke Tanaka	225	1 28.3.17.6.4	349	36	T	Y	349.36 28.3.17.6.4	The threshold value -72dBm during aCCAMidTime is applied for 40MHz band but the value of the OBSS_PD is defined for 20MHz band. Compensate the OBSS_PD by -3dB considering the bandwidth.	Replace "max(-72 dBm, OBSS_PD)" with "max(-72 dBm, OBSS_PD - 3dB)"		2017/1/9 9:42
10310	Yusuke Tanaka	225	1 28.3.17.6.4	349	51	T	Y	349.51 28.3.17.6.4	The threshold value -69dBm during aCCAMidTime is applied for 80MHz band but the value of the OBSS_PD is defined for 20MHz band. Compensate the OBSS_PD by -6dB considering the bandwidth.	Replace "max(-69 dBm, OBSS_PD)" with "max(-69 dBm, OBSS_PD - 6dB)"		2017/1/9 9:42
10311	Yusuke Tanaka	225	1 28.4.3	373	45	T	Y	373.45 28.4.3	aCCAMidTime =25usec, and it is the exactly same as 11ac. Due to longer OFDM symbol in 11ax, I don't think we can expect reliable mid packet detect within 25usec. In 11ac, 25usec can contain 6 OFDM symbols and 0.8u*6=4.8usec can be used for auto-correlation. To have a reliable detection similar to 11ac, we need time of max((0.8u+12.8u)*6, (1.6u+12.8u)*2, (3.2u+12.8u)*1) = 81.6usec.	Replace 25usec with 81.6usec for aCCAMidTime. To make such change, current description for 28.3.17.6.4 would become invalid. Use two separate "aCCAMidTIme"s, i.e., one is for 11ax having longer OFDM symbol such as 81.6usec as mentioned above, And the other is conventional value of 25usec for 11a/g/n/ac.		2017/1/9 9:42
10312	Zhigang Rong	225	1 27.5.2.2.2	166	24	E	Y	166.24 27.5.2.2.2	"CP_LTF_TYPE" is not a valid TXVECTOR or RXVEXTOR parameter according to "Table 28-1--TXVECTOR and RXVECTOR parameters". "CP_LTF_TYPE" should be corrected to "GI_TYPE and HE_LTF_TYPE".	Change the sentence to the following: "GI and LTF Type is set to 3 if the carrying PPDU TXVECTOR parameters GI_TYPE and HE_LTF_TYPE indicate 4x LTF + 3.2 ++s GI or 2x LTF + 1.6 ++s GI; otherwise is set to 2"		2017/1/9 9:42
10313	Zhigang Rong	225	1 27.5.2.3	169	26	E	Y	169.26 27.5.2.3	"CP_LTF_TYPE" is not a valid TXVECTOR or RXVEXTOR parameter according to "Table 28-1--TXVECTOR and RXVECTOR parameters". "CP_LTF_TYPE parmeter" should be corrected to "The GI_TYPE and HE_LTF_TYPE parameters".	Change the sentence to the following: "The GI_TYPE and HE_LTF_TYPE parameters shall be set to indicate 4x LTF + 3.2 ++s GI if the RXVECTOR parameters GI_TYPE and HE_LTF_TYPE indicate 4x LTF + 3.2 ++s GI or 2x LTF + 1.6 ++s GI ; otherwise shall be set to indicate 2x LTF + 1.6 ++s GI"		2017/1/9 9:42
10314	Zhiyong Huang	225	1 28.3.14.3	342	20	T	N	342.20 28.3.14.3	Need to specify either number of packet or time duration for device to meet transmit power accuracy requirement. In subclause 28.3.14.2 it discuss how the device should adjust power. However, it does not specify either number of PPDU or time duration for the device to finish adjust transmitting power. In table 28-40, it also does not specify this requirement. 1 PPDU or 100 PPDU to achieve requirement will impact system performance/capacity differently.	add specific number of PPDU for the device to reach transmit power accuracy. If it was implied to reach accuracy requirement within 1 PPDU, it is better to explicitly define it in the 28.3.14.3.		2017/1/9 9:42

10315 Zhiyong Huang	225	1 28.3.17.2	345	5	T	N	345.05 28.3.17.2	It will be good to specify sensitivity for the STA with large power boost between two adjacent RU. With power boost mode, the minimum power delta is 6dB and the largest is 12dB. It will be meaningful to specify the sensitivity with large power boost	add STA sensitivity requirement with 6dB or up to 12dB power boost MU DL signal.	2017/1/9 9:42
10316 Zhou Lan	225	1 27.5.1.3	163	16	T	Y	163.16 27.5.1.3	BQR now is in the section of DL MU operation. However it should be useful for the AP to make right decision on UL MU scheduling as well	Extend BQR to UL MU operation	2017/1/9 9:42
10317 Zhou Lan	225	1 28.3.4	240	57	T	Y	240.57 28.3.4	Define a preamble puncuture mode for Non-HT DUP for the protection of the HE DL/UL MU operation	per comment	2017/1/9 9:42
10318 Zhou Lan	225	1 9.7.1	105	52	T	Y	105.52 9.7.1	Define a new MPDU delimeter for power save optimization	per comment	2017/1/9 9:42
10319 Zhou Lan	225	1 27.2.1	149	20	T	Y	149.20 27.2.1	MPDU delimeter can be extended to convey inter or intra BSS info. The extension allows HE AP being able to send A-MPDU in VHT format that has inter or intra BSS information before chekcing the MAC header	per comment	2017/1/9 9:42
10320 Zhou Lan	225	1 27.2.2	150	25	T	Y	150.25 27.2.2	"An HE non-AP STA shall maintain two NAV timers. An HE AP STA may maintain two NAV timers." clarify the different requirement between AP and Non-AP STA	per comment	2017/1/9 9:42
10321 Zhou Lan	225	1 27.2.2	150	31	T	Y	150.31 27.2.2	"if one of the two NAV timers is nonzero, the virtual CS indication is that the medium is busy." clarify if the intra NAV is zero and inter NAV is non zero, in such case, what is the idle status?	per comment	2017/1/9 9:42
10322 Zhou Lan	225	1 27.2.2	150	40	T	Y	150.40 27.2.2	"The duration information is indicated by a frame in a PSDU as follows" clarify the case when the duration field is in the SIG-A (not part of PSDU),how the NAV update is performed	per comment	2017/1/9 9:42
10323 Zhou Lan	225	1 27.2.2	150	52	T	Y	150.52 27.2.2	"A STA shall update the intra-BSS NAV with the duration information indicated by the received frame in a PSDU if and only if all the following conditions are met:". Clarify if the duration filed is in the SIGA (i.e not part of the PSDU), how the intra NAV will be updated.	per comment	2017/1/9 9:42
10324 Zhou Lan	225	1 27.2.2	150		E	Y	150.00 27.2.2	"A STA that maintains two NAVs has the capability to maintain NAV set by intra-BSS PPDU and inter-BSS PPDU separately. Maintaining two NAV is beneficial in dense deployment scenarios where a STA requires protection from frames transmitted by STAs within its BSS, i.e., intra-BSS, and avoid interference from frames transmitted by STAs in neighboring BSS, i.e., inter-BSS. For example, in a TXOP initiated by the associated AP for UL MU transmission, the intra-BSS NAV of the STA can be set by the AP to prevent the STA from contending the channel, and the basic NAV will not be updated by the associated AP so that NAV set by inter-BSS PPDU can be considered in UL MU CS as described in 27.5.2.4 (UL MU CS mechanism)." This paragraph is more like a general description of two NAV setting. It should be moved to the begining of the section.	per comment	2017/1/9 9:42

10325	Zhou Lan	225	1 27.2.2	150		T	Y	150.00 27.2.2	"The STA is not solicited an immediate response by the PPDU carrying the frame.". This condition needs fix. If AP wants to schedule different group of STAs to participate UL MU operation in one TXOP, this condition will only allow the STAs that are scheduled in the first round to transmit later in the same TXOP	need a contribution to fix it	2017/1/9 9:42
10326	Zhou Lan	225	1 27.2.2	151		T	Y	151.00 27.2.2	"The STA is not solicited an immediate response by the PPDU carrying the frame.". This condition needs fix. If AP wants to schedule different group of STAs to participate UL MU operation in one TXOP, this condition will only allow the STAs that are scheduled in the first round to transmit later in the same TXOP	need a contribution to fix it	2017/1/9 9:42
10327	Zhou Lan	225	1 27.2.3	152		T	Y	152.00 27.2.3	Section 27.5.2.1 says "A non-AP STA with dot11ULMUMIMOOptionImplemented equal to true is referred to as an UL MU capable STA.", so an UL MU capable STA is a STA that is capable of supporting UL MU MIMO. However, here in this section, it refers to UL MU MIMO, UL OFDMA, UL OFDMA+MU MIMO. UL OFDMA is a mandatory feature which doesnt need capability indication. So the language should be fixed.	fix the language per comment	2017/1/9 9:42
10328	Zhou Lan	225	1 27.4.1	157		T	Y	157.00 27.4.1	"An HE STA can use Compressed BlockAck frame or Multi-STA BlockAck frame after setting up a block ack agreement." Please clarify if Block ACK aggrement is required in the following cases. 1) Multiple STAs send single management frame in a trigger based PPDU and expecting acknoledgement from AP. 2) OFDMA random access for association and authentication	per comment	2017/1/9 9:42
10329	Zhou Lan	225	1 27.4.1	157	24	T	Y	157.24 27.4.1	"Multi-STA BlockAck frame if either UL MU operation (see 27.5.2 (UL MU operation)) or multi-TID AMPDU operation (27.10.4 (A-MPDU with multiple TIDs)) is supported in the role of recipient.", UL OFDMA (one of the UL MU operation) is mandatory. So M-BA is mandatory. This setence can be deleted.	per comment	2017/1/9 9:42
10330	Zhou Lan	225	1 27.4.1	157	33	T	Y	157.33 27.4.1	Shall define a mandated response rule mechanism to simplify the response MCS selection implementation	per comment	2017/1/9 9:42
10331	Zhou Lan	225	1 27.4.1	157	36	T	Y	157.36 27.4.1	change "HE STA" to "HE AP" if this is the case to ack a trigger based PPDU	per comment	2017/1/9 9:42
10332	Zhou Lan	225	1 27.10.4	193	53	T	Y	193.53 27.10.4	"A multi-TID A-MPDU may contain multiple noncontiguous nonzero length MPDU delimiters with EOF subfield equal to 1, one for each TID that solicits Ack and/or multiple noncontiguous nonzero length MPDU delimiters with EOF subfield equal to 0, one for each TID that solicits BlockAck." is conflicting with the baseline that says"An A-MPDU subframe with EOF set to 0 shall not be added after any A-MPDu subframe with EOF set to 1 " clarify the benefit of allowing this flexibility in terms of supporting MPDU with different ACK policy, othwise remove this	per comment	2017/1/9 9:42

10333	Zhou Lan	225	1 27.4.1	157	48	T	Y	157.48 27.4.1	"An HE STA that supports Multi-per comment STA BlockAck shall examine each received Multi-STA sent by an STA with which it has a BA agreement." A HE STA shall support receiption of a M-BA. So delete "that supports Multi- STA BlockAck"		2017/1/9 9:42