UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC.,
Petitioners,

v.

HANNIBAL IP LLC,
Patent Owner.

U.S. Patent No. 11,272,535
Case No. IPR2025-01188

DECLARATION OF FRIEDHELM RODERMUND IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 11,272,535

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I, Friedhelm Rodermund, do hereby declare as follows:

I. INTRODUCTION AND ENGAGEMENT

1. I have been retained in this matter by the Petitioners to provide testimony regarding the standard business practices of 3rd Generation Partnership Project ("3GPP") for record keeping and publishing technical specifications, change request proposals, reports, and other documents developed during the course of standards activities carried out by 3GPP and the European Telecommunications Standards Institute ("ETSI").

2. I have been asked to provide my opinions regarding the authenticity and dates of public accessibility of the following 3GPP documents:

- TDoc R2-1813741, which represents a 3GPP document with the title "Considerations on 4-step RACH procedure for NR-U" (hereinafter "R2-1813741") (Ex. 1010)
- TDoc R2-1816829, which represents a 3GPP document with the title "Considerations on 4-step RACH procedure for NR-U" (hereinafter "R2-1816829") (Ex. 1011)
- 3GPP TS 38.321 V15.3.0 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Medium

Access Control (MAC) protocol specification (Release 15)") (hereinafter "TS 38.321 V15.3.0") (Ex. 1007)

- 3GPP TS 38.300 V15.2.0 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; NR and NG-RAN Overall Description; Stage 2 (Release 15)" (hereinafter "TS 38.300 V15.2.0") (Ex. 1013)
- 3GPP TS 36.300 V8.6.0 ("3rd Generation Partnership Project; Technical Specification Group (TSG) Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2 (Release 8)") (hereinafter "TS 36.300 V8.6.0") (Ex. 1017)
- 3GPP TS 36.331 V8.7.0 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification (Release 8)") (hereinafter "TS 36.331 V8.7.0") (Ex. 1018)
- 3GPP TS 38.331 V15.3.0 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Radio Resource Control (RRC) protocol specification; Stage 2 (Release 15)" (hereinafter "TS 38.331 V15.3.0") (Ex. 1021)

3. As an ETSI Project Manager and Secretary, from June 1998 to December 2004, I have personal knowledge of 3GPP's standard business and records keeping practices. I continued following 3GPP's work ever since. Thus, based on my experience, personal knowledge, and review of 3GPP's business records, I am able to testify regarding the authenticity of certain documents published by 3GPP and the timing of their publication.

4. I am being compensated for my time spent on this matter at my usual rate of €500 per hour. My fee is not contingent on the outcome of this or any matter, or on the content of any of the testimony I give in this declaration. I have no financial interest in the Petitioners.

5. I have been informed that Hannibal IP, LLC ("Hannibal" or "Patent Owner") is the current assignee of U.S. Patent No. 11,272,535 ("the '535 Patent"). I have no financial interest in the Patent Owner or the '535 Patent.

6. In forming my opinions, I have considered the cited exhibits, including the exhibits identified in Appendix B, and my academic and professional training and experience in the field of wireless communications and standards development as described herein.

II. BACKGROUND AND QUALIFICATIONS

7. I have more than 25 years of experience working with standards development organizations including 3GPP, ETSI, and the Open Mobile Alliance ("OMA"). I have particular experience with the development of standards related to cellular telecommunications, including the standards for the Universal Mobile Telecommunications System ("UMTS"), Long Term Evolution ("LTE"), and 5G, which are all standards developed by the 3GPP.

8. I attended the University of Technology Aachen in Aachen, Germany, where I performed graduate studies in Electrical Engineering with a focus on telecommunications technologies ("Dipl.-Ing. TH" degree). I also attended the University of Technology Trondheim in Trondheim, Norway, and completed my Diploma thesis, "Design of a dual processor computer for digital signal processing in power electronics," in 1993.

9. From December 1993 to June 1998, I worked at Mannesmann Mobilfunk as a System Engineer and Project Manager in Quality Assurance and Technical Standards. One of my responsibilities was to ensure by managing and performing related test activities that cellular network equipment was compatible with the Global System for Mobile Communications ("GSM") standard developed by ETSI. During that time, I also started working as a standards delegate. I attended my first ETSI meeting in 1996 (although I was already following ETSI developments from 1992 during my studies).

10. From June 1998 to December 2004, I worked at ETSI as a project manager for various ETSI Special Mobile Group ("SMG") and 3GPP working groups. First, I served as a secretary of SMG4 "Data Services" and SMG8 "Base Stations Testing." Then, as a project manager with the ETSI Mobile Competence Center ("MCC"), I supported establishing 3GPP as the new international standards development organization for cellular telecommunications. One of my roles was acting as Secretary for 3GPP's Technical Specifications Group Terminals, Working Group ("T2"), the group which played a leading role in the creation of standards for Multimedia such as the Multimedia Messaging Service ("MMS").

11. Later, I was a secretary of the highest-level Technical Specifications Group Terminals which was besides other things responsible for the development of test specifications including tests for the radio interface.

12. I edited all technical specifications produced by my working groups and presented results to the parent body for approval. I attended all meetings (apart from some sub-working group meetings) and was also responsible for compiling meeting reports, for handling all the meeting documents, and managing the work plan. It was also my role to guide the groups and to advise the chairmen regarding 3GPP working methods and procedures including document handling, and to make sure delegates were aware of their company's obligations under the 3GPP Intellectual Property Rights policy.

13. As part of my responsibilities at ETSI, I acted as a 3GPP custodian of records by personally managing 3GPP's public File Transfer Protocol (FTP) folders, which I used to make publicly accessible various 3GPP documents, including versions of 3GPP specifications, technical reports, liaison statements, change requests, contributions, agendas, meeting reports, and other 3GPP documents from my working groups. I am also knowledgeable about document management practices used in other working groups and within 3GPP in general with regard to making documents publicly accessible through the same public FTP server of 3GPP.

14. Since I left ETSI as a staff member in 2005, I have been continuously involved in standardization activities, including with OMA, ETSI, and 3GPP. Since 2017, I also have been attending the ETSI Intellectual Property Rights ("IPR") Special Committee, which is responsible for the maintenance of the ETSI IPR Policy.

15. After I left ETSI, I worked from January 2005 to October 2014 at Vodafone, first as a Project Manager for Mobile Broadcast Standards, and then as Vice Chairman of the Device Management working group of the Open Mobile Alliance, and then as a Senior Standards Strategist, all with responsibilities as described on my curriculum vitae. At Vodafone, I was deeply involved in standards work with ETSI and 3GPP and other standards setting organizations, including as a delegate to 3GPP SA1 "Services." As part of my responsibilities, I attended selected

3GPP meetings, submitted documents to 3GPP, used 3GPP resources (including 3GPP's FTP server) extensively, and remained knowledgeable about 3GPP policies and procedures with regard to document management and public accessibility. I was also involved in the creation of patents, defense activities related to patent litigations, and patent evaluation, mostly in the context of standards development.

16. Since leaving Vodafone in 2014, I have performed consulting work regarding Internet of Things (IoT) and Machine to Machine (M2M) technology and standards, first at Friedhelm Rodermund Consulting and then as the Founder and Director of IOTECC GmbH. In connection with my work, I regularly deal with standards such as OMA's Lightweight M2M (LwM2M) and 3GPP's LTE, Narrowband IoT (NB-IoT) and 5G standards. And I have extensively used 3GPP resources and have remained knowledgeable about 3GPP policies and procedures with regard to document management and public accessibility.

17. I also provide consulting services related to patents, in particular around 3GPP Standard Essential Patents ("SEPs"), and I have worked as an expert witness on a number of occasions. I continue to closely follow the maintenance of the ETSI IPR Policy as a delegate to the ETSI IPR Special Committee. Furthermore, I am conducting a seminar on SEPs and the Internet of Things at the Technical University of Ilmenau, Germany.

18. At the time of writing this declaration, I am following – including attending selected meetings – the following standards committees: ETSI oneM2M, ETSI IPR Special Committee, OMA, and 3GPP.

19. A copy of my curriculum vitae, which includes a detailed description of my experience and education, is attached as Appendix A. A list of litigation matters on which I have worked over the last five years is also included in my curriculum vitae.

III. SUMMARY OF MY OPINIONS

20. It is my opinion that Ex. 1010 is an authentic copy of 3GPP T-doc R2-1813741 that was uploaded and made available via the 3GPP FTP server to 3GPP delegates and the general public by September 27, 2018, at the latest.

21. It is my opinion that Ex. 1011 is an authentic copy of 3GPP T-doc R2-1816829 that was uploaded and made available via the 3GPP FTP server to 3GPP delegates and the general public by November 2, 2018, at the latest.

22. It is my opinion that Ex. 1007 is an authentic copy of 3GPP TS 38.321 V15.3.0 that was uploaded and made available via the 3GPP FTP server to 3GPP delegates and the general public by September 25, 2018.

23. It is my opinion that Ex. 1013 is an authentic copy of 3GPP TS 38.300 V15.2.0 that was uploaded and made available via the 3GPP FTP server to 3GPP delegates and the general public by June 20, 2018, at the latest.

24. It is my opinion that Ex. 1017 is an authentic copy of 3GPP TS 36.300 V8.6.0 that was uploaded and made available via the 3GPP FTP server to 3GPP delegates and the general public by September 18, 2008, at the latest.

25. It is my opinion that Ex. 1018 is an authentic copy of 3GPP TS 36.331 V8.7.0 that was uploaded and made available via the 3GPP FTP server to 3GPP delegates and the general public by September 29, 2009, at the latest.

26. It is my opinion that Ex. 1021 is an authentic copy of 3GPP TS 38.331 V15.3.0 that was uploaded and made available via the 3GPP FTP server to 3GPP delegates and the general public by September 26, 2018, at the latest.

IV. PUBLICATION OF 3GPP SPECIFICATIONS AND RELATED DOCUMENTS

A. General Practices

27. Unless otherwise noted, the foregoing and following is an accurate description of 3GPP general practices from 1998 to the present, including in 2008, 2009, and 2018, regardless of whether I use the present or past tense to describe those practices.

28. 3GPP was established in 1998 by a group of telecommunications standard development organizations from Japan, Korea, China, Europe, and the United States to jointly develop worldwide standards for mobile

telecommunications. Today, 3GPP consists of seven partners: Association of Radio Industries and Businesses, Japan ("ARIB"), Alliance for Telecommunications Industry Solutions, USA ("ATIS"), China Communications Standards Association ("CCSA"), European Telecommunications Standards Institute ("ETSI"), Telecommunications Standards Development Society, India ("TSDSI"), Telecommunications Technology Association, Korea ("TTA"), and Telecommunication Technology Committee, Japan ("TTC"). In addition to being one of the founding partners, ETSI hosts the Mobile Competence Centre ("MCC"), which provides administrative and technical support for the day-to-day work of 3GPP. Furthermore, ETSI manages 3GPP's IT services such as the 3GPP website, FTP server, and email exploders.

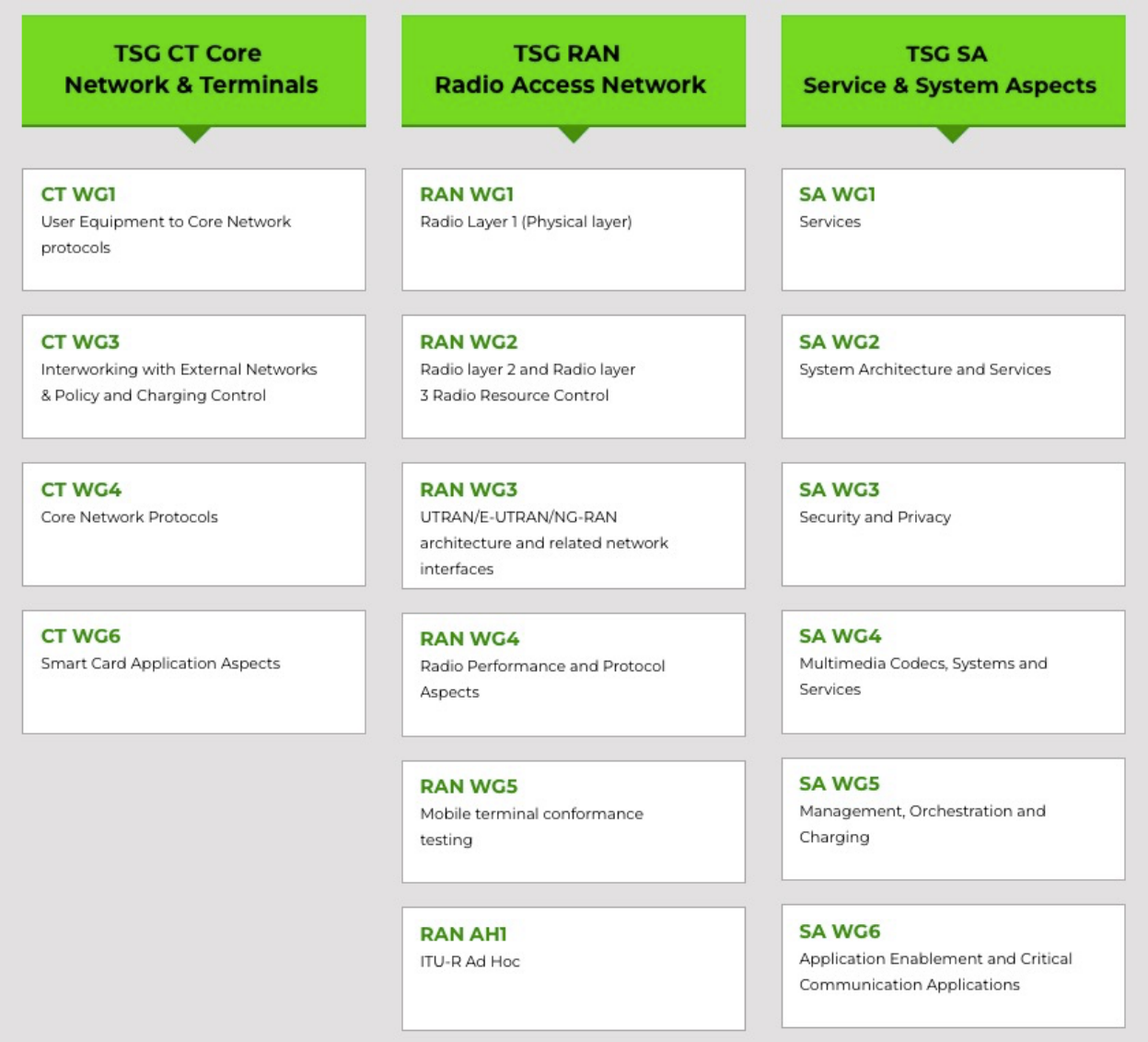
29. 3GPP is the world's leading organization for developing and maintaining cellular telecommunications standards, which it has done since its foundation in 1998. As noted above and in my curriculum vitae, I began working for 3GPP, as part of my work at ETSI, the European-based organizational partner of 3GPP.

30. In the ordinary course of its regularly conducted business activities, and pursuant to its standard business practices, 3GPP publishes technical specifications, proposals, reports, and other documents related to the development of cellular telecommunications standards. Such documents are published for the purposes of

discussion and establishment of industry standards for cellular telecommunications. This has been 3GPP's ordinary course of business since when I began working at ETSI in 1998.

31. In the ordinary course of 3GPP's regularly conducted business activities, and pursuant to its standard business practices, all draft technical specifications, proposals, reports, and other temporary documents to be discussed or considered in relation to 3GPP's telecommunications standards activities were, and continue to be, assigned a temporary document number and made publicly available, including on the FTP server associated with the 3GPP website, currently residing at ftp.3gpp.org. Such documents are referred to as "TDocs." Final versions of the technical specifications also were, and continue to be, publicly available from that same FTP server.

32. The names and the structure of 3GPP working groups, as of today, can be found at https://www.3gpp.org/3gpp-groups (reproduced below):



33. Each Technical Specification Group (TSG) or Working Group adopts a structured numbering system for the documents associated with their meetings, and those systems typically follow a consistent numbering system as shown in the following example: xminnzzzz. The numbering system normally comprises five logical elements: (1) x: a single letter corresponding to the TSG; wherein in 2018 x was one of R (Radio Access Network), C (Core and Terminals), or S (Service and

System Aspects); (2) m: a single character corresponding to the Working Group identity (typically 1, 2, 3, etc.) or, in the case of the TSG itself, the letter "P"; (3) i: normally the hyphen character "-"; (4) nn: the calendar year of the meeting to which the document was submitted; and (5) zzzz: a running number (some working groups use 5 digits).

34. In the ordinary course of 3GPP's regularly conducted business activities, and pursuant to its standard business practices, from December 1998 onwards, 3GPP published all of its TDocs and all final versions of its technical specifications on its FTP server, which has always been easily and publicly accessible from its website and currently resides at ftp.3gpp.org.

35. As early as December 1998, including in 2008, 2009, and 2018, 3GPP's FTP server was freely accessible to the general public with no login, password, or membership requirement.

36. By 1999, at least 100 companies were members of 3GPP (719 companies by December 2020), ranging from Bosch to Ericsson to Nokia to Samsung and generally including those interested in the discussion, creation, and adoption of cellular telecommunications standards, including UMTS. Each of these companies typically delegated multiple individuals to regularly participate in 3GPP meetings. Further, pursuant to 3GPP's standard business practices, 3GPP working groups sent emails notifying these individuals as soon as new or additional

documents had been uploaded to 3GPP's FTP server. Thus, not only did the general public have access to the documents on the FTP server, but some of the most interested members of the public—those working to develop standards for cellular telecommunication or working to implement the standards—were personally informed of their availability by email.

37. Based on my experience with 3GPP and the telecommunications industry, I would expect any person implementing a cellular network or device, e.g., an LTE or 5G network, to consult the corresponding specifications on the 3GPP FTP server, as well as other related documents. The whole purpose of 3GPP creating and making these specifications available was so that engineers and other individuals would have ready access to them when developing and implementing cellular networks and devices.

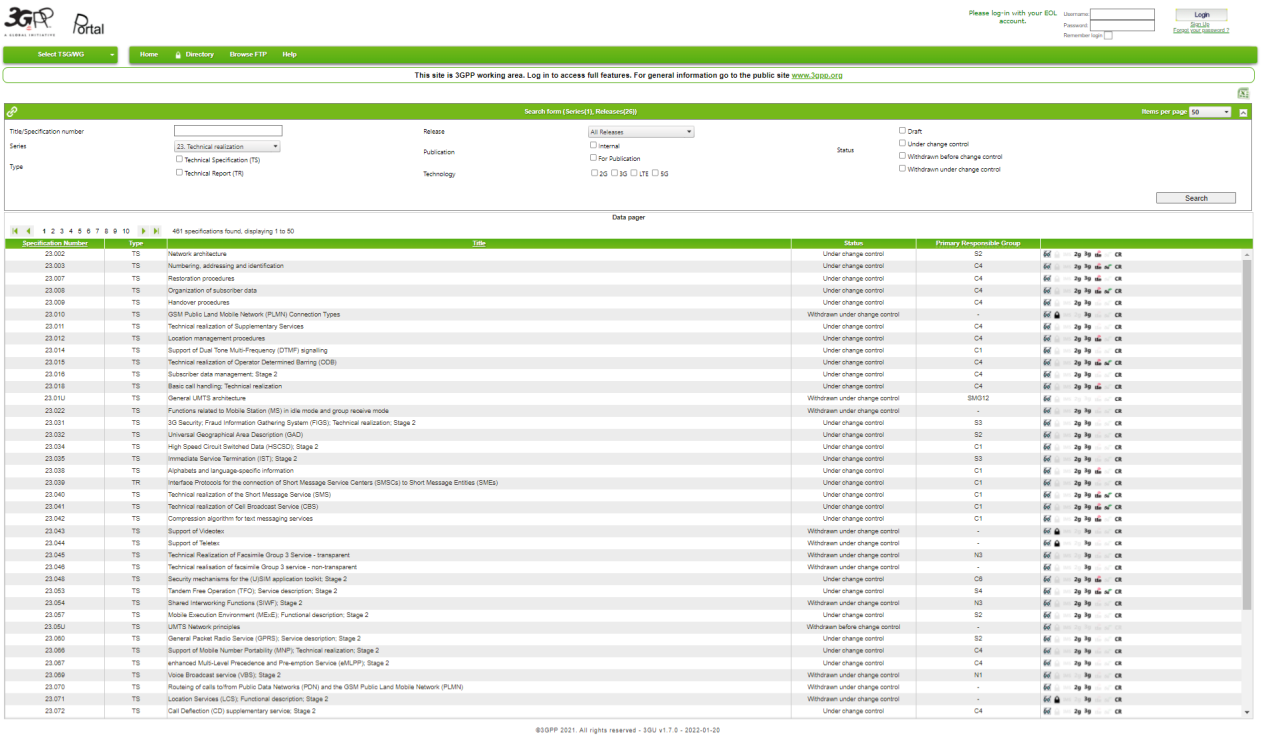
38. Since 3GPP was created, its FTP server was well-known to persons in the cellular telecommunications industry as a source of public information regarding industry standards and technological advances.

39. 3GPP specifications bear a specification number consisting of four or five digits, e.g., 09.02 or 29.002. The first two digits define the specification series which are defined to group the different aspects of the 3GPP system into, e.g., requirements, service aspects, radio aspects codecs, security aspects, and test specifications. The series digits are followed by two additional digits for the 01 to

13 series or three further digits for the 21 to 55 series. The subjects of the individual specification series are explained on 3GPP's website at https://www.3gpp.org/specifications-technologies/specifications-by-series, and reproduced below.

Subject of specification series	3G and beyond / GSM (R99 and later)	GSM only (Rel-4 and later)	GSM only (before Rel-4)
Requirements	21 series	41 series	01 series
Service aspects ("stage 1")	22 series	42 series	02 series
Technical realization ("stage 2")	23 series	43 series	03 series
Signalling protocols ("stage 3") - user equipment to network	24 series	44 series	04 series
Radio aspects	25 series	45 series	05 series
CODECs	26 series	46 series	06 series
Data	27 series	47 series (none exists)	07 series
Signalling protocols ("stage 3") -(RSS-CN) and OAM&P and Charging (overflow from 32.- range)	28 series	48 series	08 series
Signalling protocols ("stage 3") - intra-fixed-network	29 series	49 series	09 series
Programme management	30 series	50 series	10 series
Subscriber Identity Module (SIM / USIM), IC Cards. Test specs.	31 series	51 series	11 series
OAM&P and Charging	32 series	52 series	12 series
Access requirements and test specifications		13 series [1]	13 series [1]
Security aspects	33 series	(2)	(2)
UE and (U)SIM test specifications	34 series	(2)	11 series
Security algorithms [3]	35 series	55 series	(4)
LTE (Evolved UTRA), LTE-Advanced, LTE-Advanced Pro radio technology	36 series		
Multiple radio access technology aspects	37 series		
Radio technology beyond LTE	38 series		

40. Following a link for a series (e.g., "23 series" link) leads to a 3GPP web page providing access to all specifications in a series, as shown by the screenshot below:



41. As another example of a series, the LTE radio standard is covered in the "36 series" and is further subdivided into separate sections or specifications. The LTE radio specification series starts at TS 36.101 and ends at TR 36.978. Excluding withdrawn specifications, the LTE standard consists of more than 250 specifications.

42. As another example of a series, the 5G New Radio (NR) standard is covered in the "38 series" and is further subdivided into separate sections or specifications. Selecting the "38 series" link on the website shown in paragraph 34 leads to the 3GPP portal (portal.3gpp.org) page for all of the 38 series technical specifications.[1] These 5G NR specifications start at TS 38.101 and end at TR 38.922. Excluding withdrawn specifications, the 5G NR standard consists of more than 140 specifications.

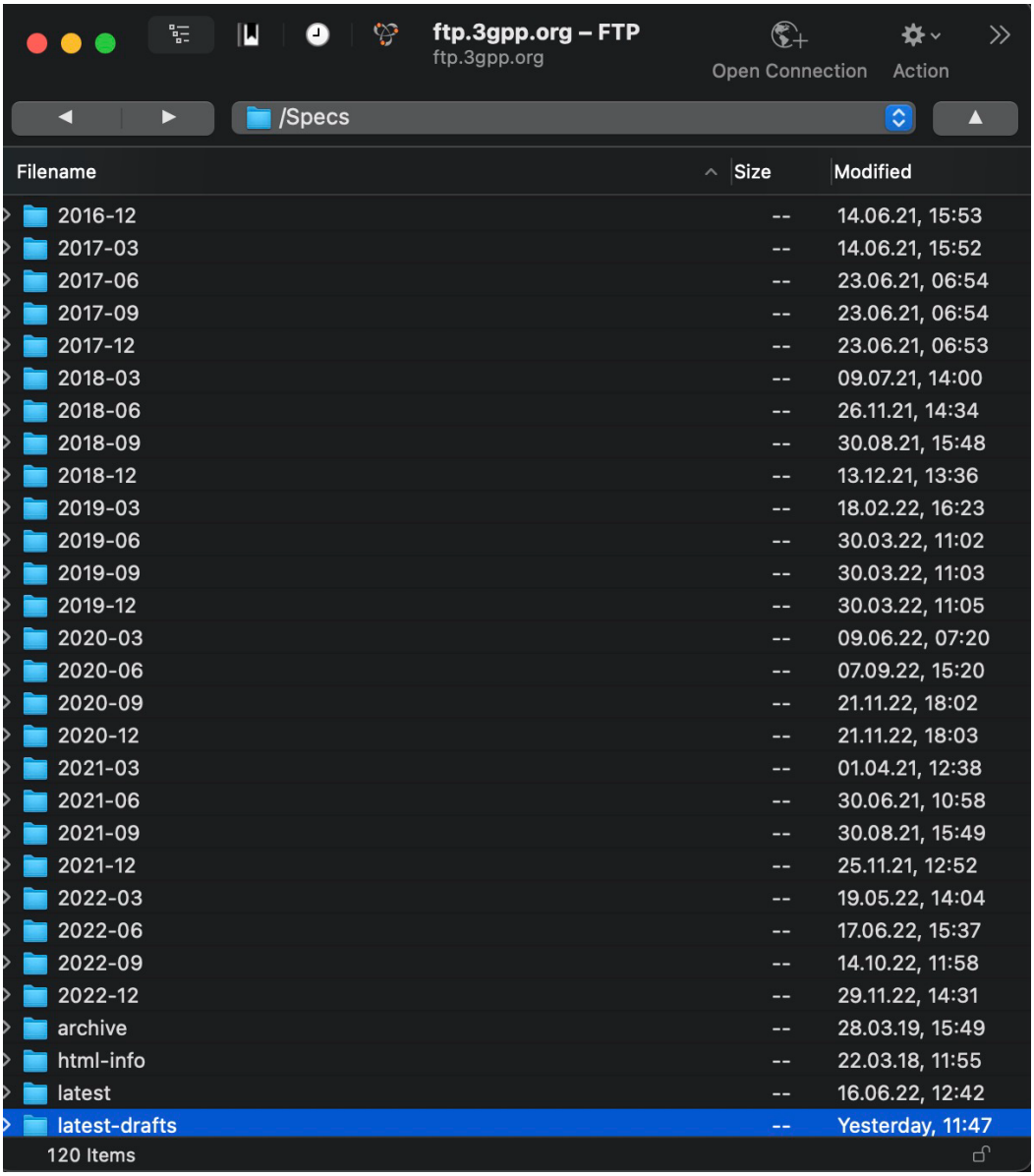
43. Each LTE or 5G specification can span from a few pages to hundreds of pages. One full version of the LTE or 5G standard is massive, spanning tens of thousands of pages across the particular series of technical specifications.

44. In the ordinary course of 3GPP's regularly conducted business activities, and pursuant to its standard business practices, TDocs are usually uploaded to 3GPP's FTP server and website before the meeting where they are to be discussed. Documents created or revised during the course of a meeting are normally uploaded at the latest during the week following the meeting (e.g., the meeting report of the meeting is usually published for review during the week following the meeting).

[1] https://portal.3gpp.org/Specifications.aspx?q=1&series=45&releases=all&draft=False&underCC=False&withACC=False&withBCC=False&numberNYA=False

45. In the ordinary course of 3GPP's regularly conducted business activities, and pursuant to its standard business practices, 3GPP maintains archives that include different versions of the specifications, as well as email communications to its membership, including emails announcing the uploading of new or additional documents to 3GPP's FTP server. These archives are created at the time the emails are initially sent.

46. 3GPP specifications almost always are duplicated in at least two and sometime more locations on the FTP server. One location corresponds to a "snapshot" of the specifications corresponding to a particular plenary meeting cycle—for instance, the 2018-12 snapshot contains a snapshot of numerous specifications after the December 2018 3GPP plenary meetings. The second location is an "archive" that contains all versions over time for a given specification. The screenshot below shows an excerpt of the "Spec" folder at ftp.3gpp.org:



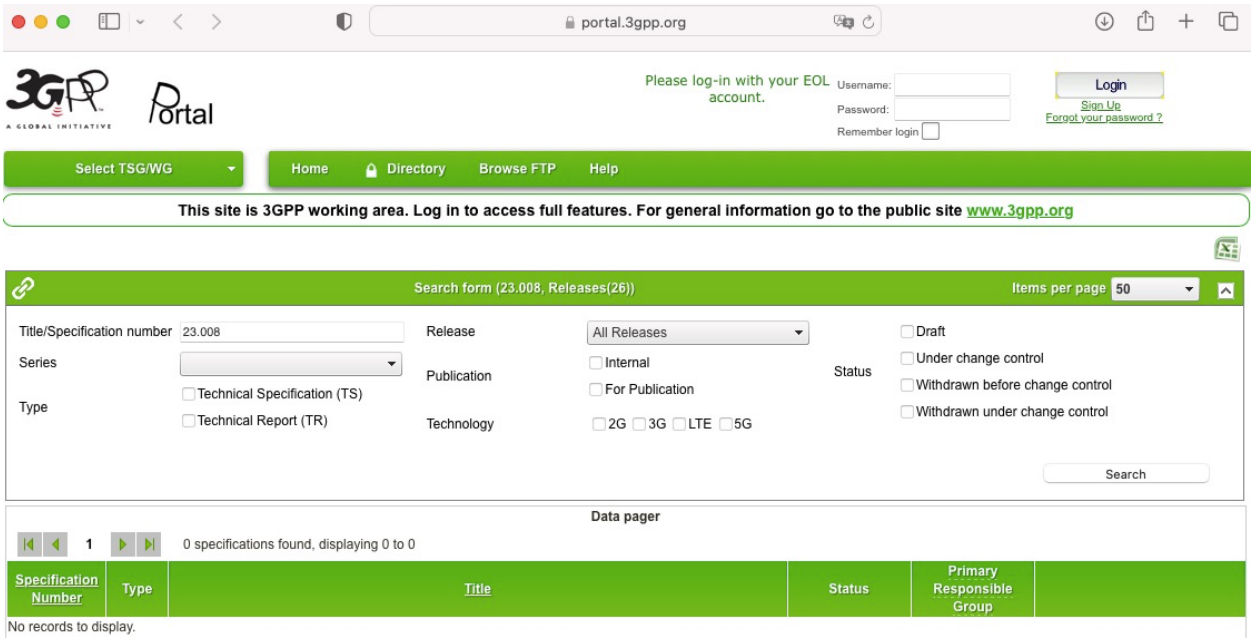
47. While 3GPP aims to upload the updated specifications to both locations at the same time, occasionally there may be a small difference in the upload date, and thus the date stamp, for the same specification uploaded to the two locations. Additionally, specifications which are not yet approved (so called "draft" specifications) are presented as TDocs at working group and at plenary meetings (as

soon as the working group decides to submit the specification to the plenary meeting for information or approval). In many cases, the TDocs are also distributed on the email exploder of the working group prior to the meeting, making the TDocs available to all those subscribed to the email distribution list.

48. The timestamp on 3GPP's FTP server shows the date when the document was uploaded the last time. Thus, the timestamp shows the latest possible date the document became publicly available and accessible on 3GPP's FTP server. The given document might have been available earlier and the original timestamp might have been overwritten because the document was uploaded again. According to my experience, this is something which happened occasionally. Thus, the FTP timestamp is reliable as the latest possible upload date but it may not always represent the first upload of a document to the FTP server.

49. An additional means of accessing 3GPP documents including TDocs and specifications is the 3GPP portal. *See* https://portal.3gpp.org/Specifications.aspx. 3GPP preserves the posted document indefinitely on its server for future reference. *Id.* As detailed below, the 3GPP website provides the date that a particular version of a technical specification was uploaded, using the date convention YYYY-MM-DD. The 3GPP portal also provides a login function to unlock full features, however, login is not required for searching and downloading technical specifications. Based on my personal

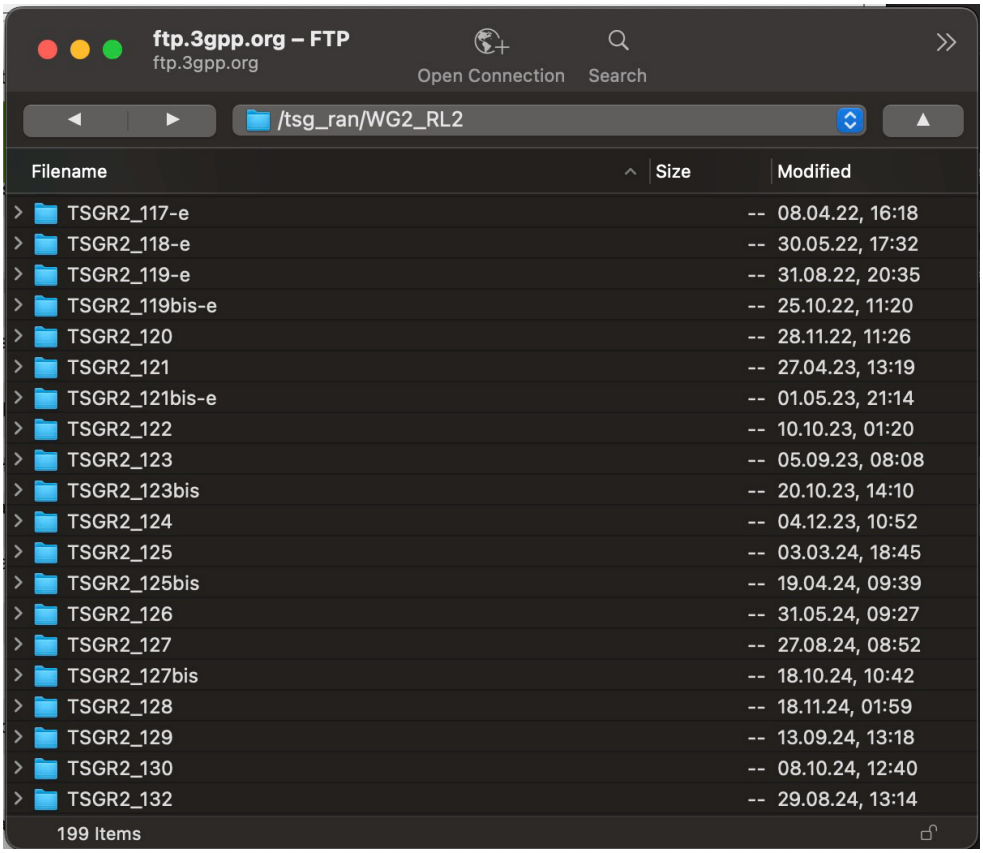
experience, throughout the 2018 timeframe, anyone interested in a particular 3GPP specification could search the 3GPP portal to find and download the latest version of a technical specification using the 3GPP portal in substantially the same manner as they would today:



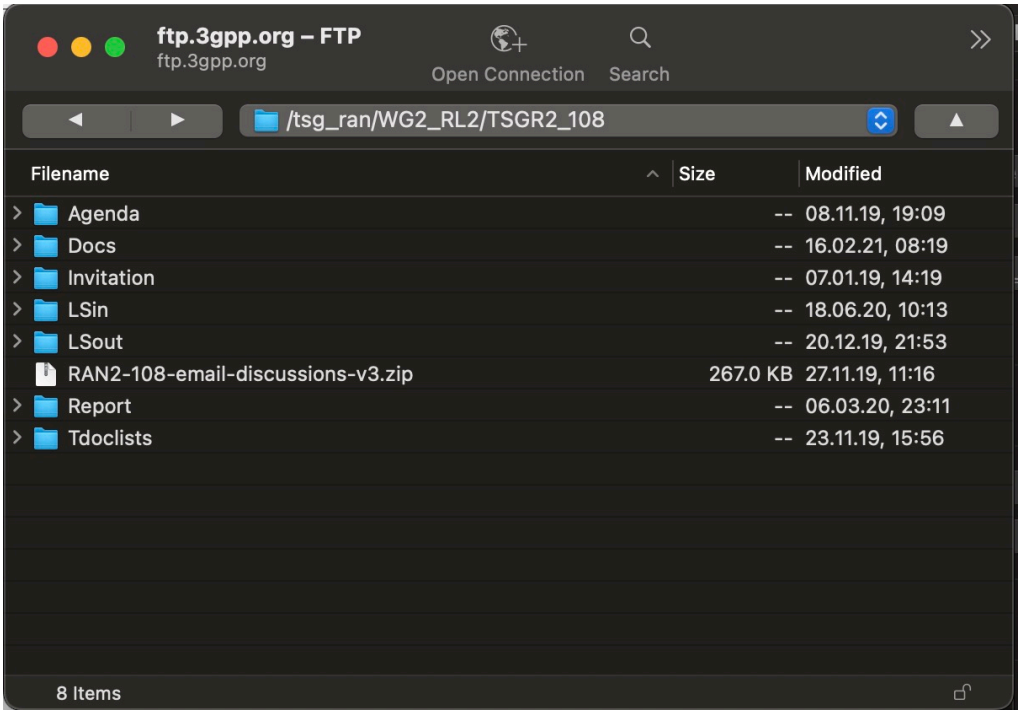
https://portal.3gpp.org/Specifications.aspx; *see, e.g.,* 2015 internet archive https://web.archive.org/web/20150924200802/https://portal.3gpp.org/.

50. 3GPP's working practice to store their documents on its FTP server, as described above, has not changed over time. Starting from the first 3GPP meetings in 1998 until present, all WGs and plenary meetings are represented by dedicated meeting folders on the FTP server. These meeting folders include the documents discussed at the meetings. Both the folders and the documents are accessible to the public. Almost every week, a new meeting folder with the respective documents is

added. As an example, the screenshot below shows an extract of the RAN WG2 folder named "WG2_RL2" showing that every meeting has a dedicated number:



51. As an example, the screenshot below shows the typical structure of a meeting folder including the most important folders "Agenda", "Docs" (includes all meeting contributions), and "Report" (includes the meeting report):



52. In addition to the plenary and WG meeting folders, and some other folders, there is also the "Specs" folder, which holds all 3GPP specifications including the aforementioned "snapshot" and archive folders. Since the early days of 3GPP a new folder is added inside the "Specs" folder after each TSG plenary meeting to hold the latest versions of specifications approved at those TSG plenary meetings. This is still 3GPP's working practice today; thus, this practice has not changed over time.

53. 3GPP maintains a set of publicly accessible documents[2] providing further details on its way of working:

[2] All available from https://www.3gpp.org/delegates-corner/3gpp-working-procedures

- 3GPP Working Procedures
- Vocabulary for 3GPP Specifications 3GPP TR 21.905
- Working Methods 3GPP TR 21.900
- Specification Drafting Rules 3GPP TR 21.801

B. Specific Documents

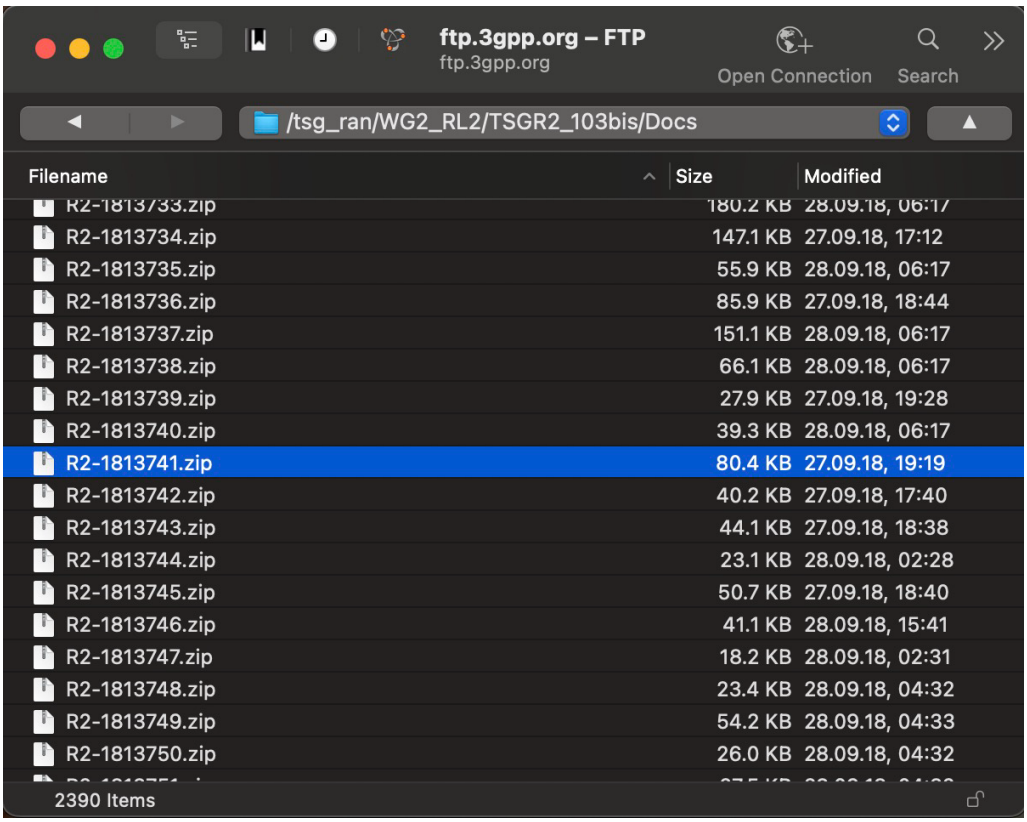
1. TDoc R2-1813741

54. Based on my personal knowledge and my review of 3GPP's business records, I recognize Ex. 1010 as a true and correct copy of 3GPP TDoc R2-1813741, which represents a 3GPP document with the title "Considerations on 4-step RACH procedure for NR-U." The document was authored by ZTE and discussed enhancements proposed for the 4-step RACH procedure including aspects related to LBT (listen-before-talk) failure.

55. On its face, R2-1813741 refers to the RAN WG2 meeting #103bis held on October 8-12, 2018, in Chengdu, China. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, this information tells me that R2-1813741 was available either prior to or during or shortly after that meeting to at least all attending 3GPP members.

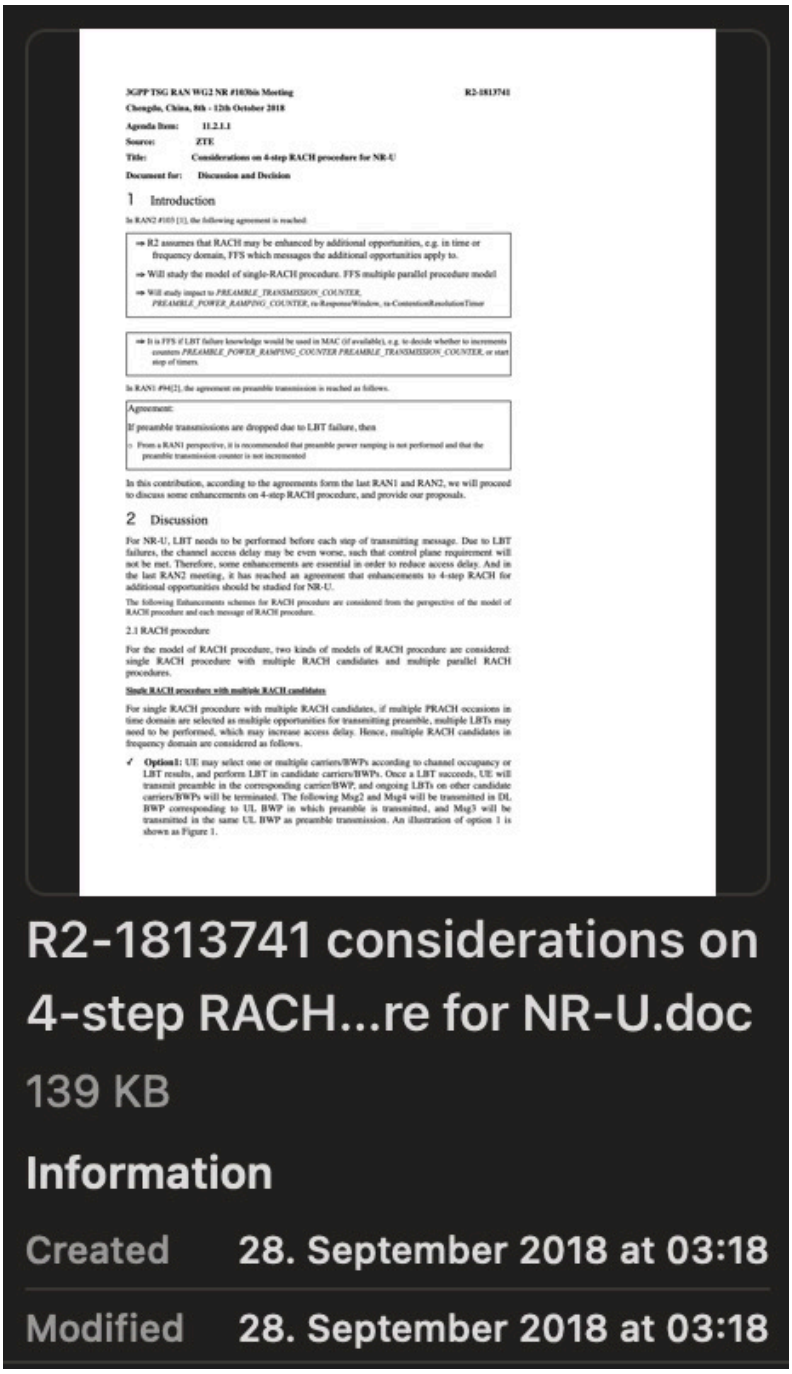
56. The public availability of the document is confirmed by the date stamp, September 27, 2018, shown on the historic 3GPP FTP server for the

corresponding downloadable file ("R2-1813741.zip"), as maintained by the Internet Archive at https://web.archive.org/web/20181119001808/https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_103bis/Docs/. This information is also shown on the date stamp for the present-day listing of the same document on the 3GPP FTP server at https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_103bis/Docs as shown in the screenshot below:



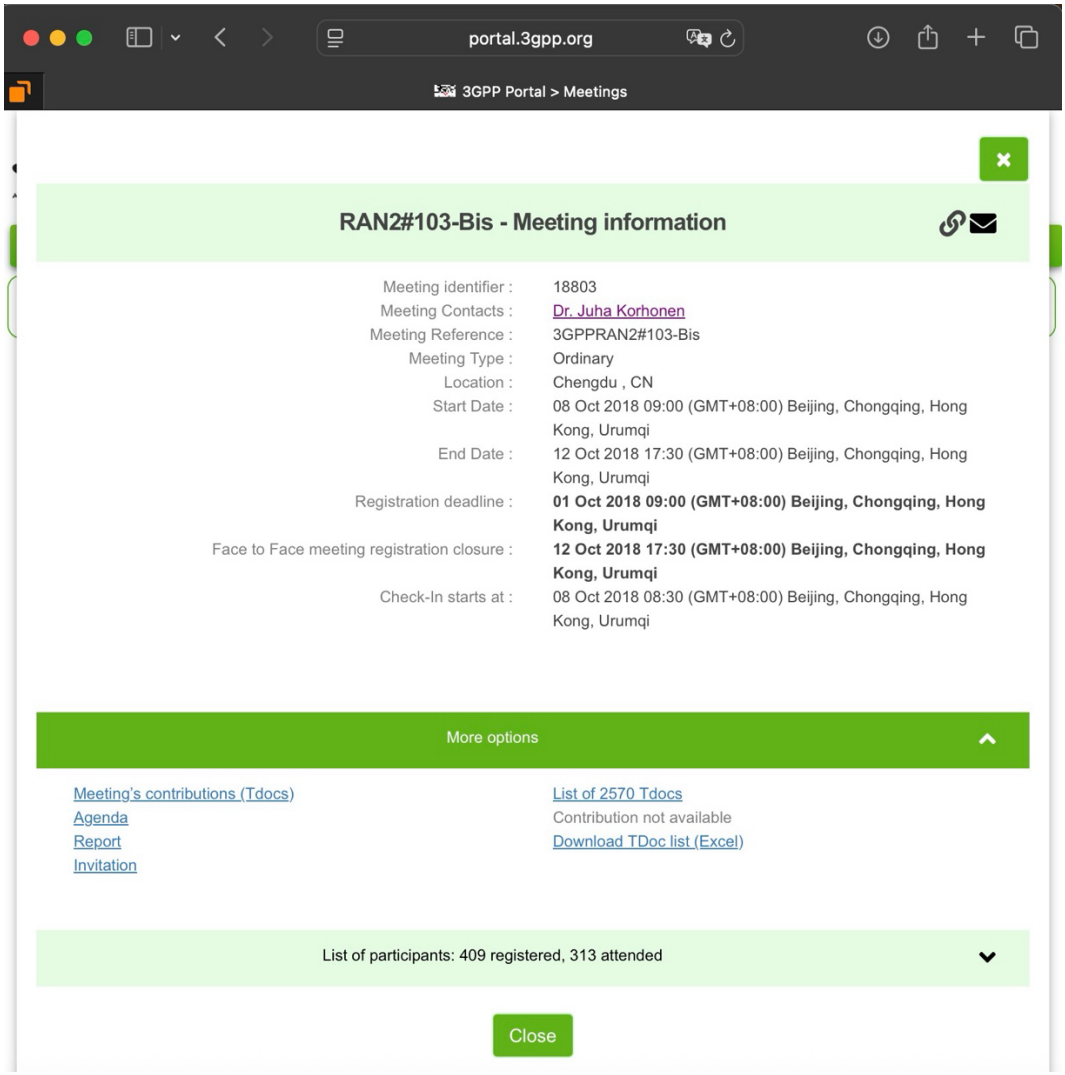
57. Experts in the field of determining the public availability of 3GPP documents would reasonably rely upon the FTP server upload date on the 3GPP FTP server as the date the document became available to the public.

58. In addition, metadata information for the downloaded and extracted TDoc file states a last "Modified" date of "28. September 2018," as shown in the screenshot below.



59. This last modified date is consistent with the September 27, 2018, upload date of the document, and the standard business practice among 3GPP participants to upload submissions shortly after completing them. The "Modified" date (September 28, 2018) being after the FTP server upload date (September 27, 2018) can be explained with a time zone difference. The document was likely edited in China (source: ZTE) but the 3GPP FTP server is located in Europe and reflects UTC time. As an example, Shenzhen, China is 8 hours ahead of UTC time.

60. The final meeting report of the RAN WG2 meeting #103bis held on October 8-12, 2018, in Chengdu, China, can be found in Appendix C. According to the 3GPP website at https://portal.3gpp.org/Meetings.aspx#/ which is shown by the screenshot below, that meeting was attended by 313 individuals (out of 409 registered participants):



61. The meeting report mentions R2-1813741 on page 180 which clearly indicates that the document was registered for this meeting. Furthermore, the meeting report includes in the zip file the meeting's document list of which an excerpt can be found in Appendix D[3]. R2-1813741 is listed in row 243 and is tagged as "not treated". Furthermore, the "Uploaded" date is shown as "2018-09-27"

[3] Given the size of the document list with over 2000 rows (documents) and over 20 columns the Appendix only includes the columns relevant for this declaration: TDoc, Title, Source, TDoc Status, Reservation date, Uploaded.

indicating the document was available at the meeting, as can be seen by the screenshot below:

	TDoc	Title	Source	TDoc Status	Reservation date	Uploaded
1						
243	R2-1813741	considerations on 4-step RACH procedure for NR-U	ZTE Corporation	not treated	2018-09-26 05:32:02	2018-09-27 19:19:35

62. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, Ex. 1010 is an authentic copy of 3GPP TDoc R2-1813741 that was uploaded and made available via the 3GPP FTP server to the general public by September 27, 2018, at the latest.

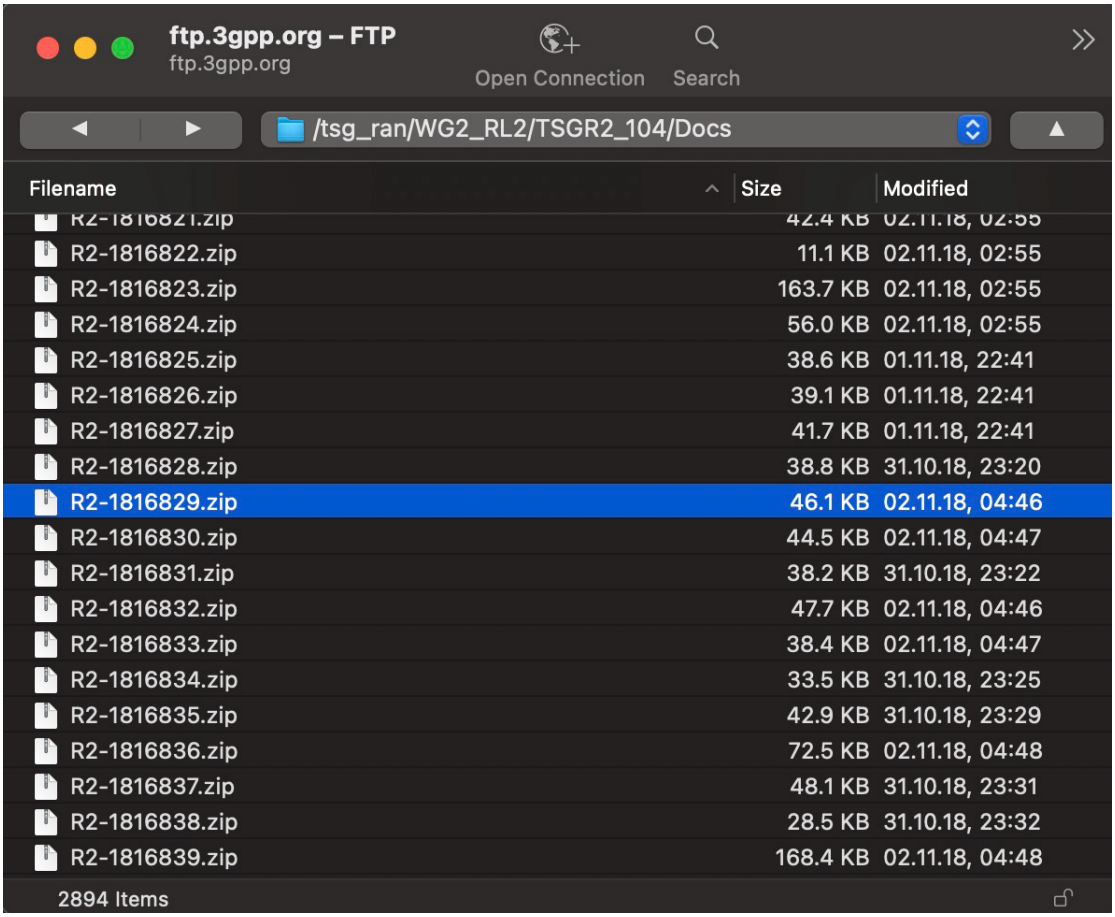
2. TDoc R2-1816829

63. Based on my personal knowledge and my review of 3GPP's business records, I recognize Ex. 1011 as a true and correct copy of 3GPP TDoc R2-1816829, which represents a 3GPP document with the title "Considerations on 4-step RACH procedure for NR-U." The document was authored by ZTE and discussed enhancements proposed for the 4-step RACH procedure including aspects related to LBT (listen-before-talk) failure.

64. On its face, R2-1816829 refers to the RAN WG2 meeting #104 held on November 12-16, 2018, in Spokane, US. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices,

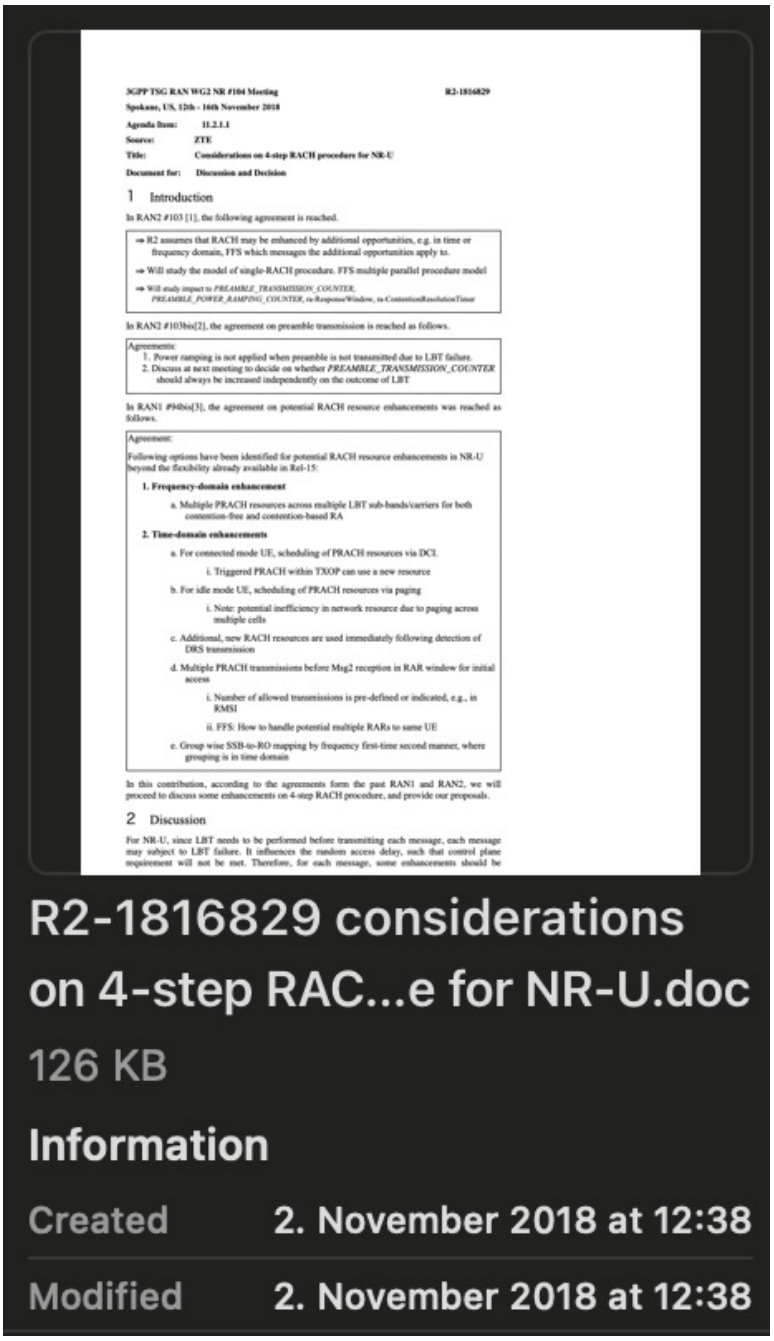
this information tells me that R2-1816829 was available either prior to or during or shortly after that meeting to at least all attending 3GPP members.

65. The public availability of the document is confirmed by the date stamp, November 2, 2018, shown on the historic 3GPP FTP server for the corresponding downloadable file ("R2-1816829.zip"), as maintained by the Internet Archive at https://web.archive.org/web/20181119001938/https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_104/Docs/. This information is also shown on the date stamp for the present-day listing of the same document on the 3GPP FTP server at https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_104/Docs as shown in the screenshot below:



66. Experts in the field of determining the public availability of 3GPP documents would reasonably rely upon the FTP server upload date on the 3GPP FTP server as the date the document became available to the public.

67. In addition, metadata information for the downloaded and extracted TDoc file states a last Modified date of "2. November 2018," as shown in the screenshot below.



3GPP TSG RAN WG2 NR #104 Meeting R2-1816829
Spokane, US, 12th - 16th November 2018
Agenda Item: 11.2.1.1
Source: ZTE
Title: Considerations on 4-step RACH procedure for NR-U
Document for: Discussion and Decision

1 Introduction

In RAN2 #103 [1], the following agreement is reached.

⇒ R2 assumes that RACH may be enhanced by additional opportunities, e.g. in time or frequency domain, FFS which messages the additional opportunities apply to.

⇒ Will study the model of single-RACH procedure. FFS multiple parallel procedure model

⇒ Will study impact to *PREAMBLE_TRANSMISSION_COUNTER*, *PREAMBLE_POWER_RAMPING_COUNTER*, ra-ResponseWindow, ra-ContentionResolutionTimer

In RAN2 #103bis[2], the agreement on preamble transmission is reached as follows.

Agreements:
1. Power ramping is not applied when preamble is not transmitted due to LBT failure.
2. Discuss at next meeting to decide on whether *PREAMBLE_TRANSMISSION_COUNTER* should always be increased independently on the outcome of LBT

In RAN1 #94bis[3], the agreement on potential RACH resource enhancements was reached as follows.

Agreement:

Following options have been identified for potential RACH resource enhancements in NR-U beyond the flexibility already available in Rel-15:

1. **Frequency-domain enhancement**
   a. Multiple PRACH resources across multiple LBT sub-bands/carriers for both contention-free and contention-based RA
2. **Time-domain enhancements**
   a. For connected mode UE, scheduling of PRACH resources via DCI
      i. Triggered PRACH within TXOP can use a new resource
   b. For idle mode UE, scheduling of PRACH resources via paging
      i. Note: potential inefficiency in network resource due to paging across multiple cells
   c. Additional, new RACH resources are used immediately following detection of DRS transmission
   d. Multiple PRACH transmissions before Msg2 reception in RAR window for initial access
      i. Number of allowed transmissions is pre-defined or indicated, e.g., in RMSI
      ii. FFS: How to handle potential multiple RARs to same UE
   e. Group wise SSB-to-RO mapping by frequency first-time second manner, where grouping is in time domain

In this contribution, according to the agreements form the past RAN1 and RAN2, we will proceed to discuss some enhancements on 4-step RACH procedure, and provide our proposals.

2 Discussion

For NR-U, since LBT needs to be performed before transmitting each message, each message may subject to LBT failure. It influences the random access delay, such that control plane requirement will not be met. Therefore, for each message, some enhancements should be

R2-1816829 considerations on 4-step RAC...e for NR-U.doc

126 KB

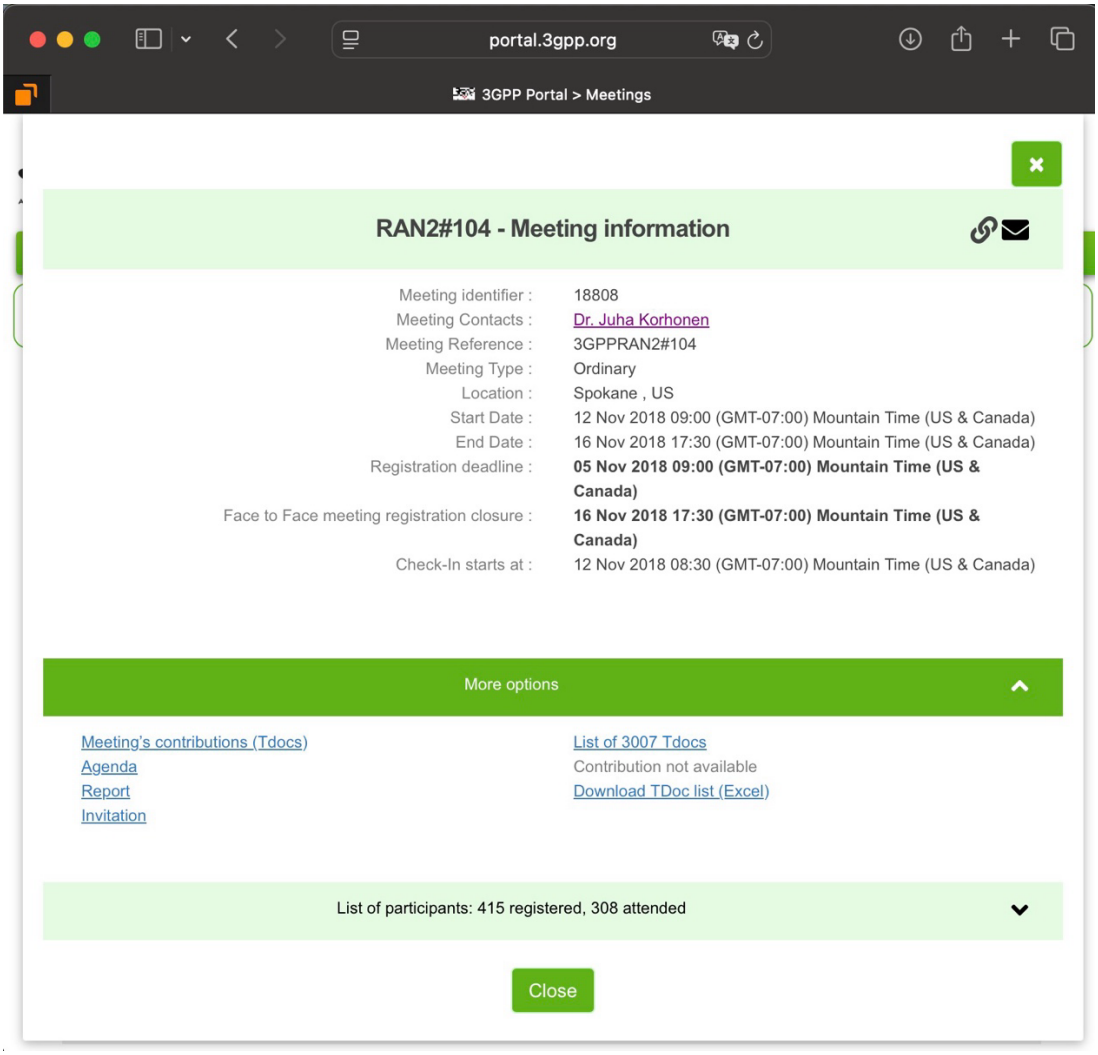
Information

Created 2. November 2018 at 12:38

Modified 2. November 2018 at 12:38

68. This last modified date is consistent with the November 2, 2018, upload date of the document, and the standard business practice among 3GPP participants to upload submissions shortly after completing them.

69. The final meeting report of the RAN WG2 meeting #104 held on November 12-16, 2018, in Spokane, US, can be found in Appendix E. According to the 3GPP website at https://portal.3gpp.org/Meetings.aspx#/ which is shown by the screenshot below, that meeting was attended by 308 individuals (out of 415 registered participants):



70. The meeting report mentions R2-1816829 on page 189 which clearly indicates that the document was registered for this meeting. Furthermore, the meeting report includes in the zip file the meeting's document list of which an excerpt can be found in Appendix F[4]. R2-1816829 is listed in row 631 and is tagged as "not treated". Furthermore, the "Uploaded" date is shown as "2018-11-02"

[4] Given the size of the document list with over 3000 rows (documents) and over 20 columns the Appendix only includes the columns relevant for this declaration: TDoc, Title, Source, TDoc Status, Reservation date, Uploaded.

indicating the document was available at the meeting, as can be seen by the screenshot below:

	TDoc	Title	Source	TDoc Status	Reservation date	Uploaded
1						
631	R2-1816829	Considerations on 4-step RACH procedure for NR-U	ZTE	not treated	2018-10-31 22:49:45	2018-11-02 04:46:29

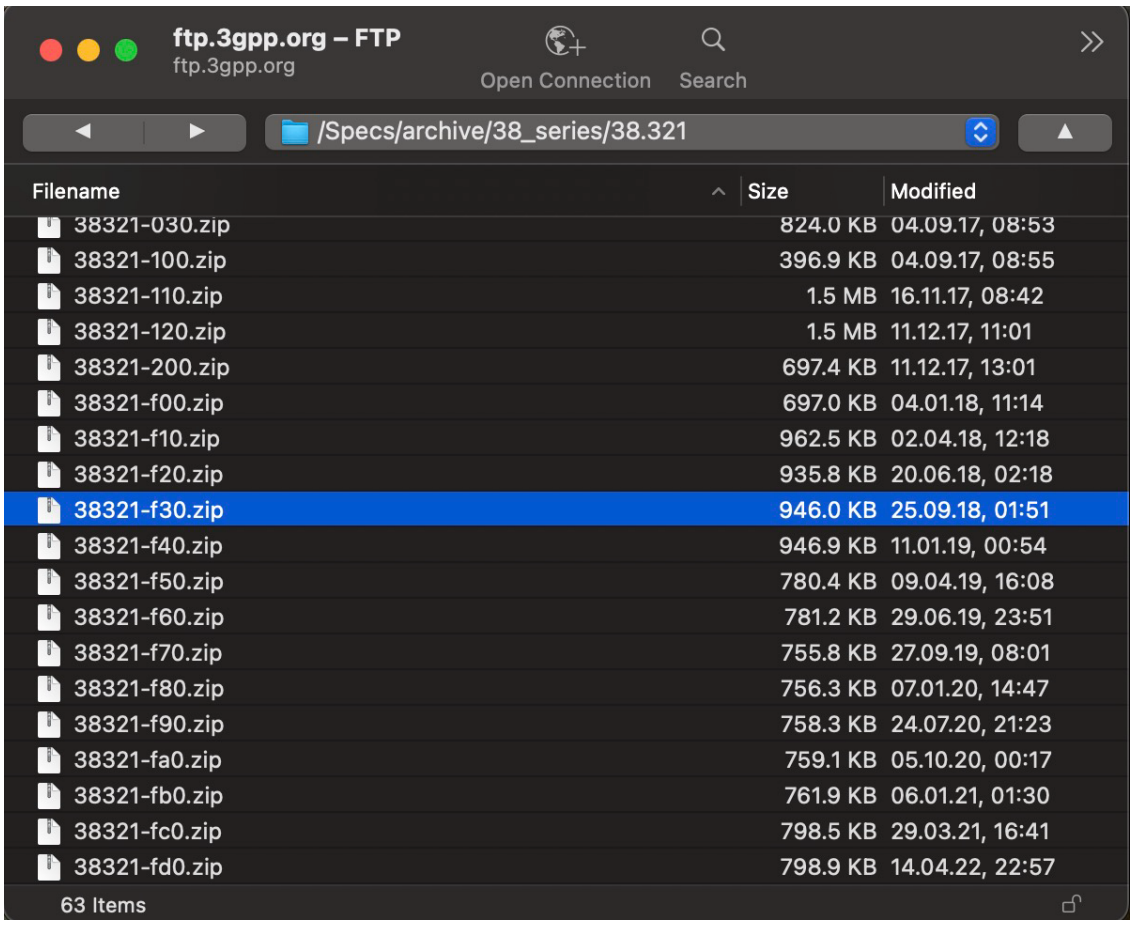
71. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, Ex. 1011 is an authentic copy of 3GPP TDoc R2-1816829 that was uploaded and made available via the 3GPP FTP server to the general public by November 2, 2018, at the latest.

3. TS 38.321 V15.3.0

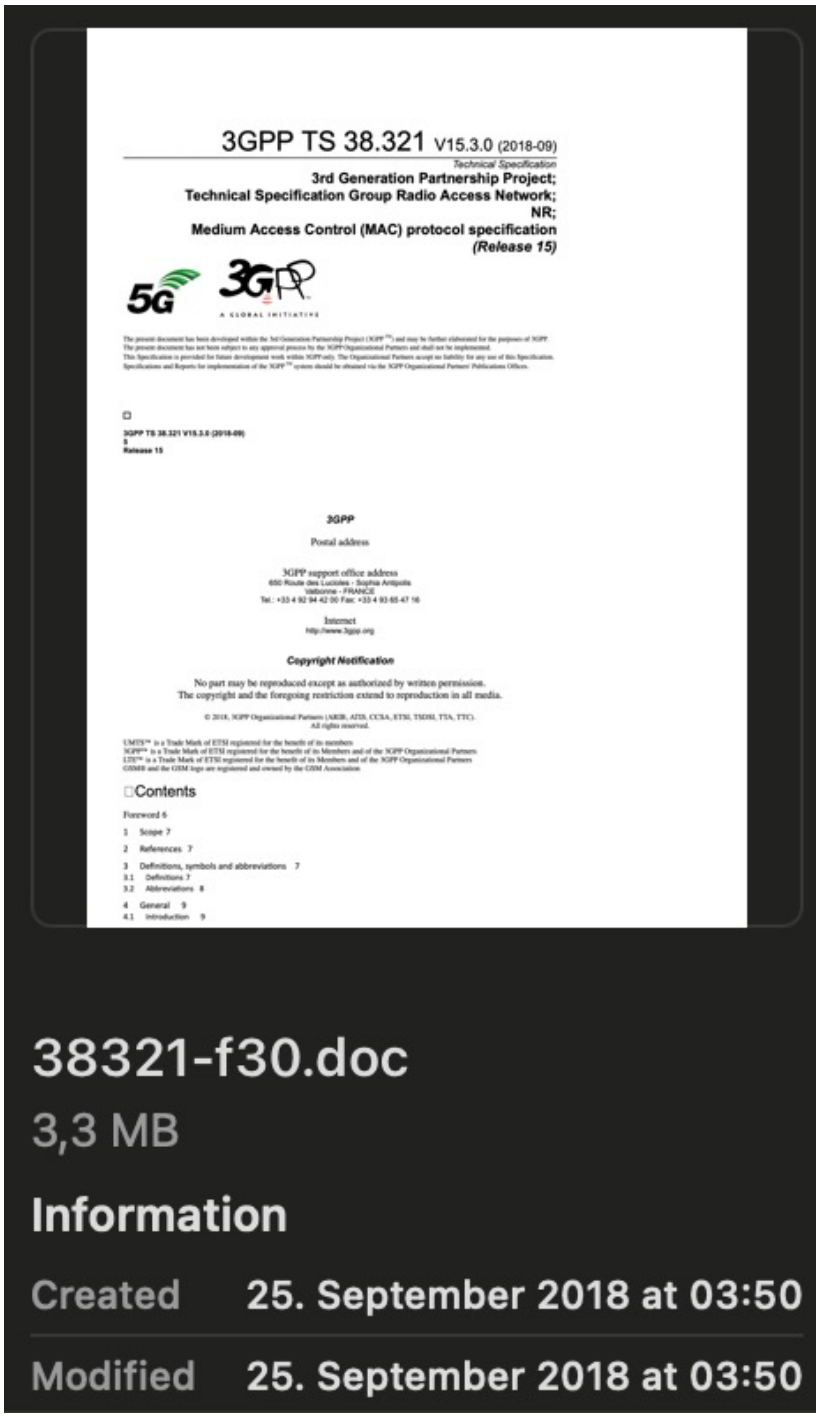
72. Based on my personal knowledge and my review of 3GPP's business records, I recognize Ex. 1007 as a true and correct copy of version 15.3.0 of technical specification 3GPP TS 38.321 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Medium Access Control (MAC) protocol specification (Release 15)"), which shows on its cover page "2018-09" as the year (2018) and month (September) during which this document was released by 3GPP.

73. The document was published and freely available on 3GPP's FTP server by September 25, 2018. This is confirmed by the date stamp shown on the

historic 3GPP FTP server for the corresponding downloadable file ("38321-f30.zip"), as maintained by the Internet Archive at https://web.archive.org/web/20181003072802/http://www.3gpp.org/ftp/Specs/archive/38_series/38.321/. This information is also shown on the date stamp for the present-day listing of the same document on the 3GPP FTP server at https://www.3gpp.org/ftp/Specs/archive/38_series/38.321, as shown by the screenshot below:



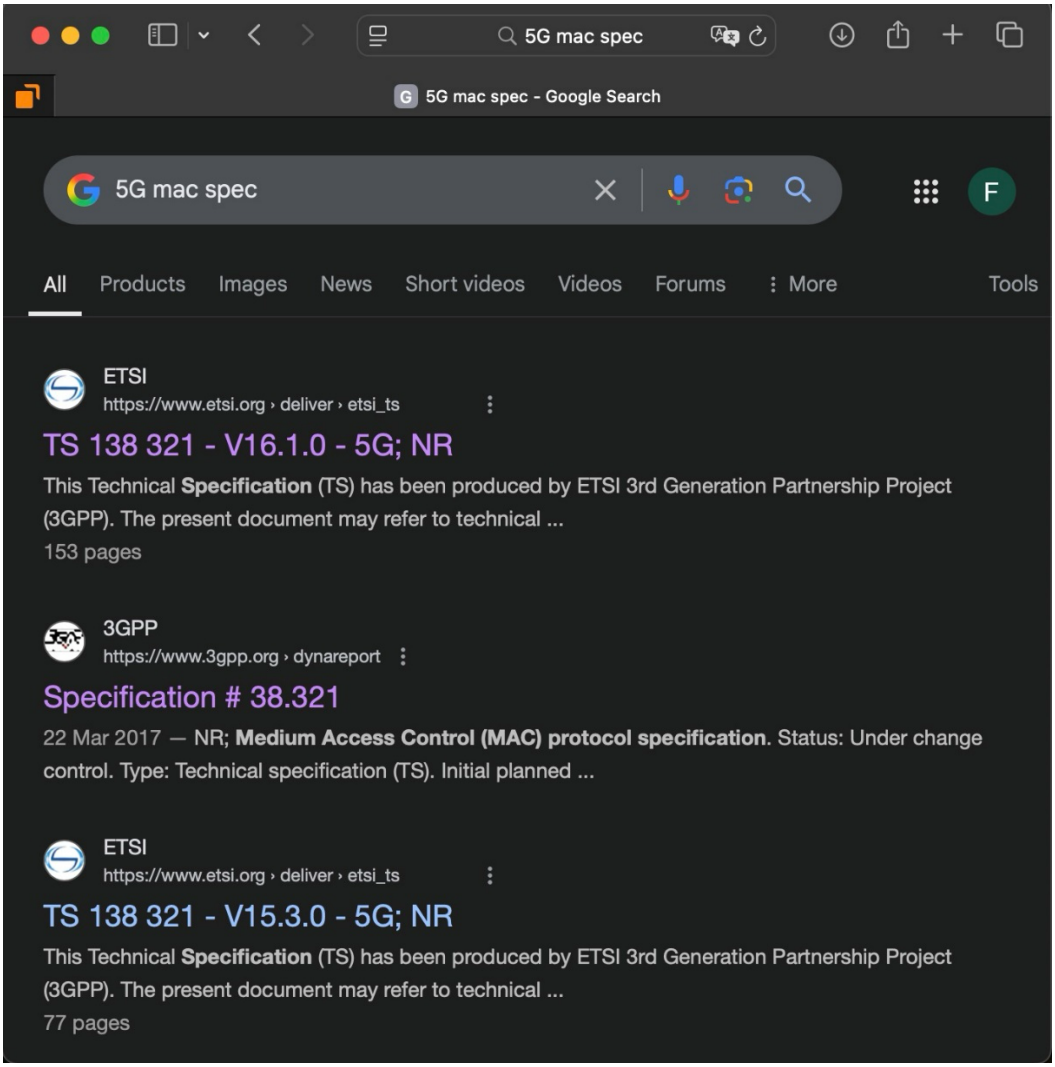
74. In addition, metadata information for the downloaded and extracted specification file states a last "Modified" date of "25. September 2018", as shown in the screenshot below:



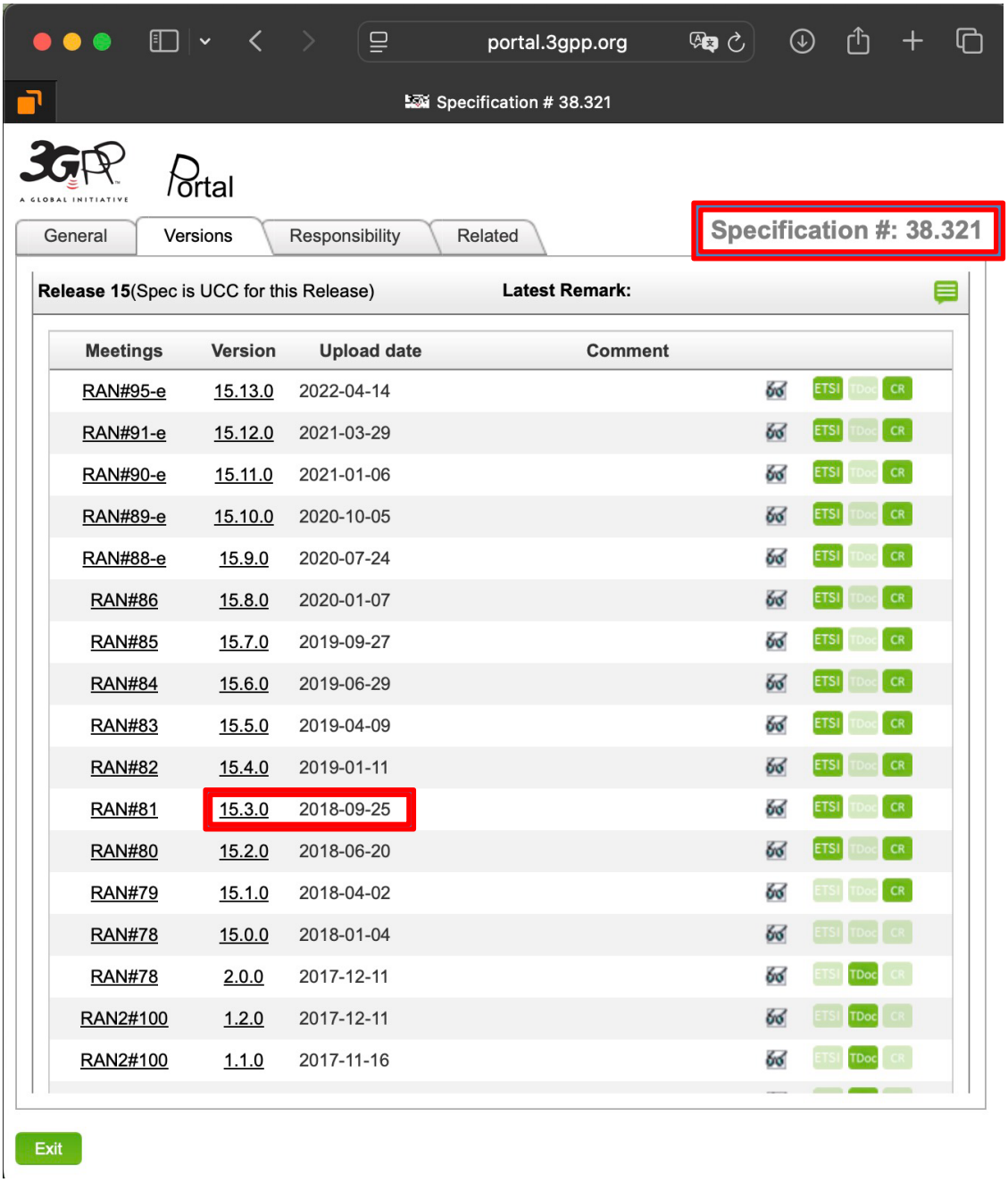
75. This last modified date is well aligned with the September 25, 2018, upload date of the document, and the standard business practice among 3GPP participants to upload documents shortly after completing them.

76. Furthermore, the availability of several new RAN2 specification versions including TS 38.321 V15.3.0 (filename 38321-f30) was announced by the RAN WG2 secretary via the public 3GPP_TSG_RAN_WG2 email exploder on September 25, 2018, as shown in Appendix G. As of today, the 3GPP_TSG_RAN_WG2 email exploder has around 1100 subscribers at https://list.etsi.org/scripts/wa.exe?INDEX. According to my experience I would expect a similar or only slightly smaller number of subscribers around 2018.

77. I believe that a person without prior knowledge of 3GPP and/or the technical specification (TS) number would have been able to easily find the TS for download via internet search. For instance, a Google search for "5G mac spec" provides the TS number "38.321" as one of the top results as can be seen in the screenshot below:



78. Following the provided search result link "Specification # 38.321" leads to a 3GPP web page offering under the tab "Versions" download links to all versions of TS 38.321 including version 15.3.0, as shown by the screenshot below:



79. The above example search illustrates that it is very easy for an interested member of the public without prior knowledge of the TS number and even

without prior knowledge of 3GPP to locate any version of TS 38.321, including version 15.3.0, for download.

80. The above search was performed at the time of writing this report. According to my personal experience, in September 2018 or around that timeframe it would have been similarly straightforward to locate a path to download version 15.3.0 of TS 38.321.

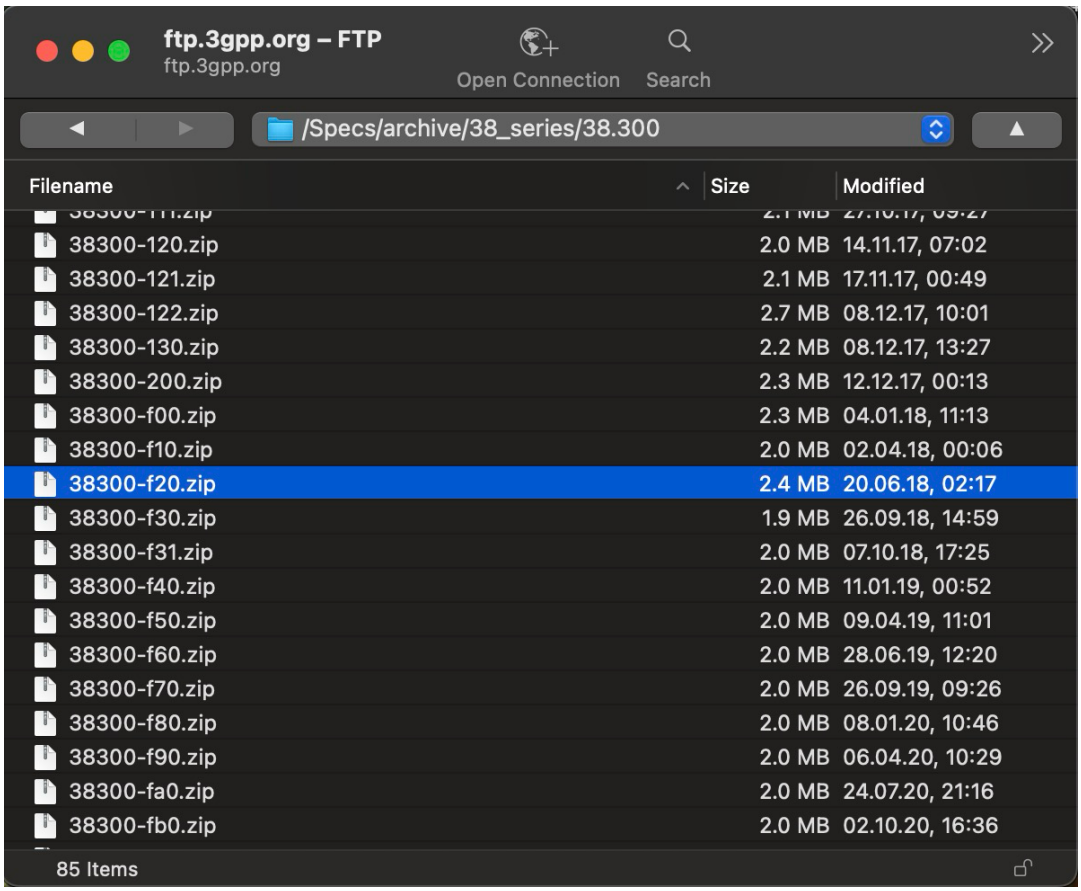
81. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, this information tells me that this document was available to all 3GPP members and the general public by September 25, 2018, at the latest.

4. TS 38.300 V15.2.0

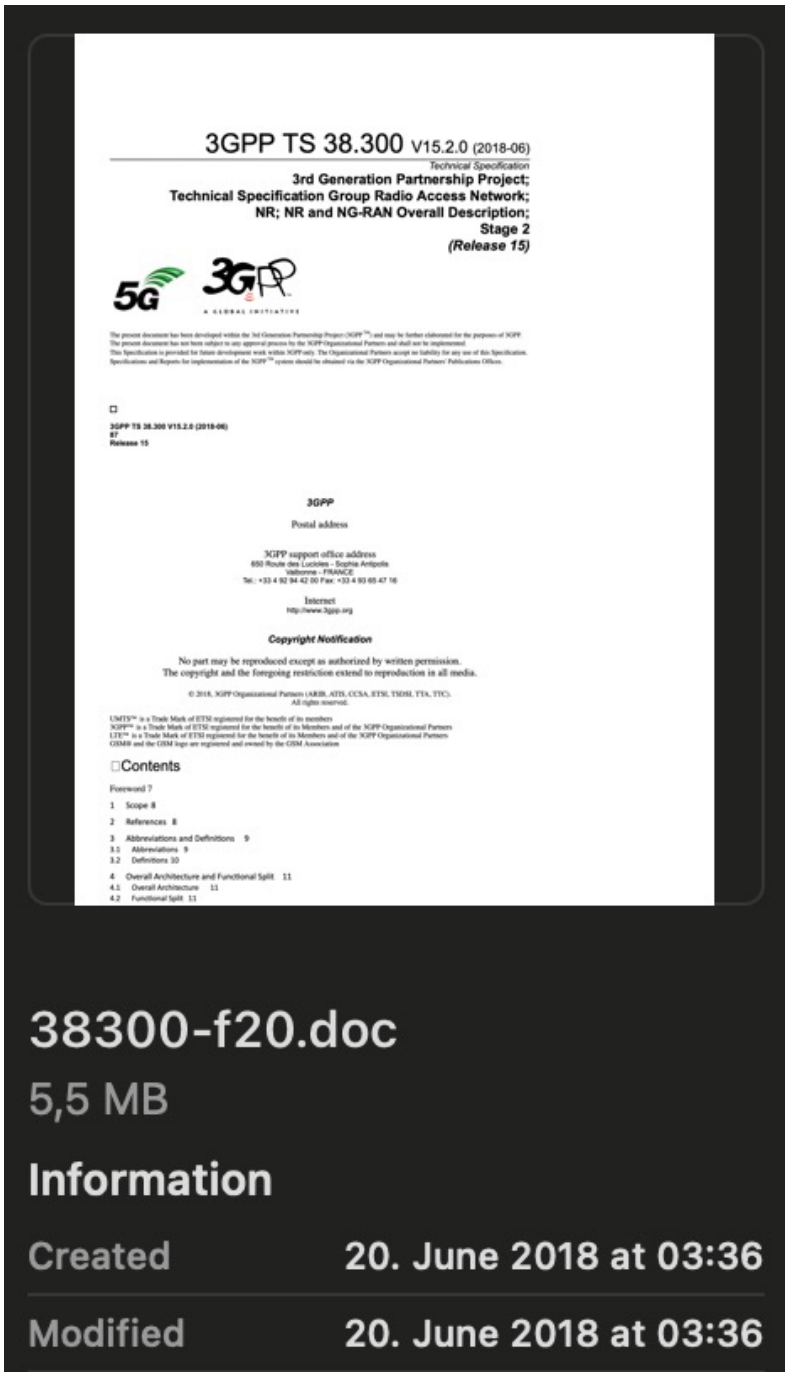
82. Based on my personal knowledge and my review of 3GPP's business records, I recognize Ex. 1013 as a true and correct copy of version 15.2.0 of technical specification 3GPP TS 38.300 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; NR and NG-RAN Overall Description; Stage 2 (Release 15)"), which shows on its cover page "2018-06" as the year (2018) and month (June) during which this document was released by 3GPP.

83. The document was published and freely available on 3GPP's FTP server by June 20, 2018. This is confirmed by the date stamp shown on the historic

3GPP FTP server for the corresponding downloadable file ("38300-f20.zip"), as maintained by the Internet Archive at https://web.archive.org/web/20180711012834/http://www.3gpp.org:80/ftp/specs/archive/38_series/38.300. This information is also shown on the date stamp for the present-day listing of the same document on the 3GPP FTP server at https://www.3gpp.org/ftp/Specs/archive/38_series/38.300, as shown by the screen shot below:



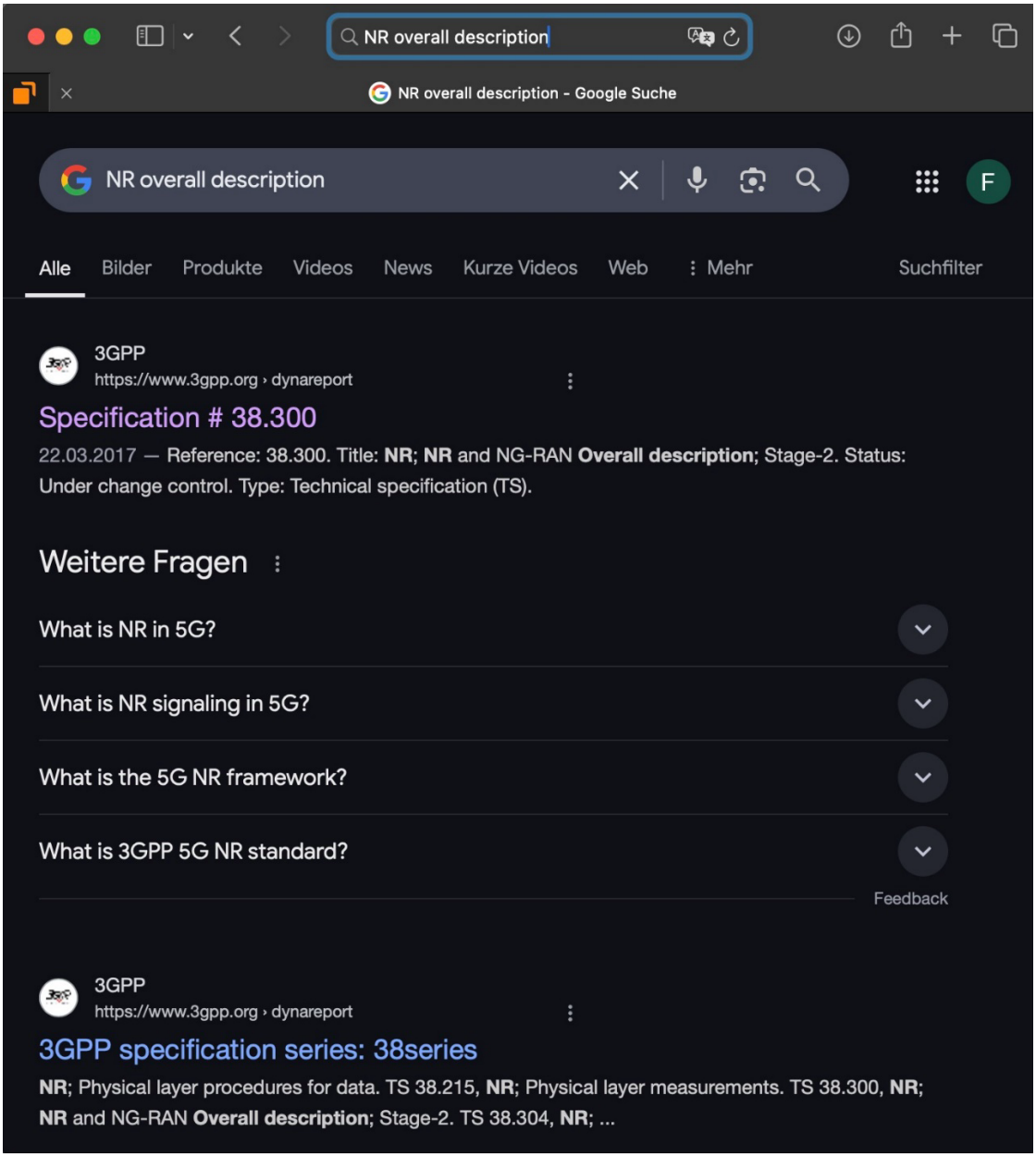
84. In addition, metadata information for the downloaded and extracted specification file states a last Modified date of "20. June 2018", as shown in the screenshot below:



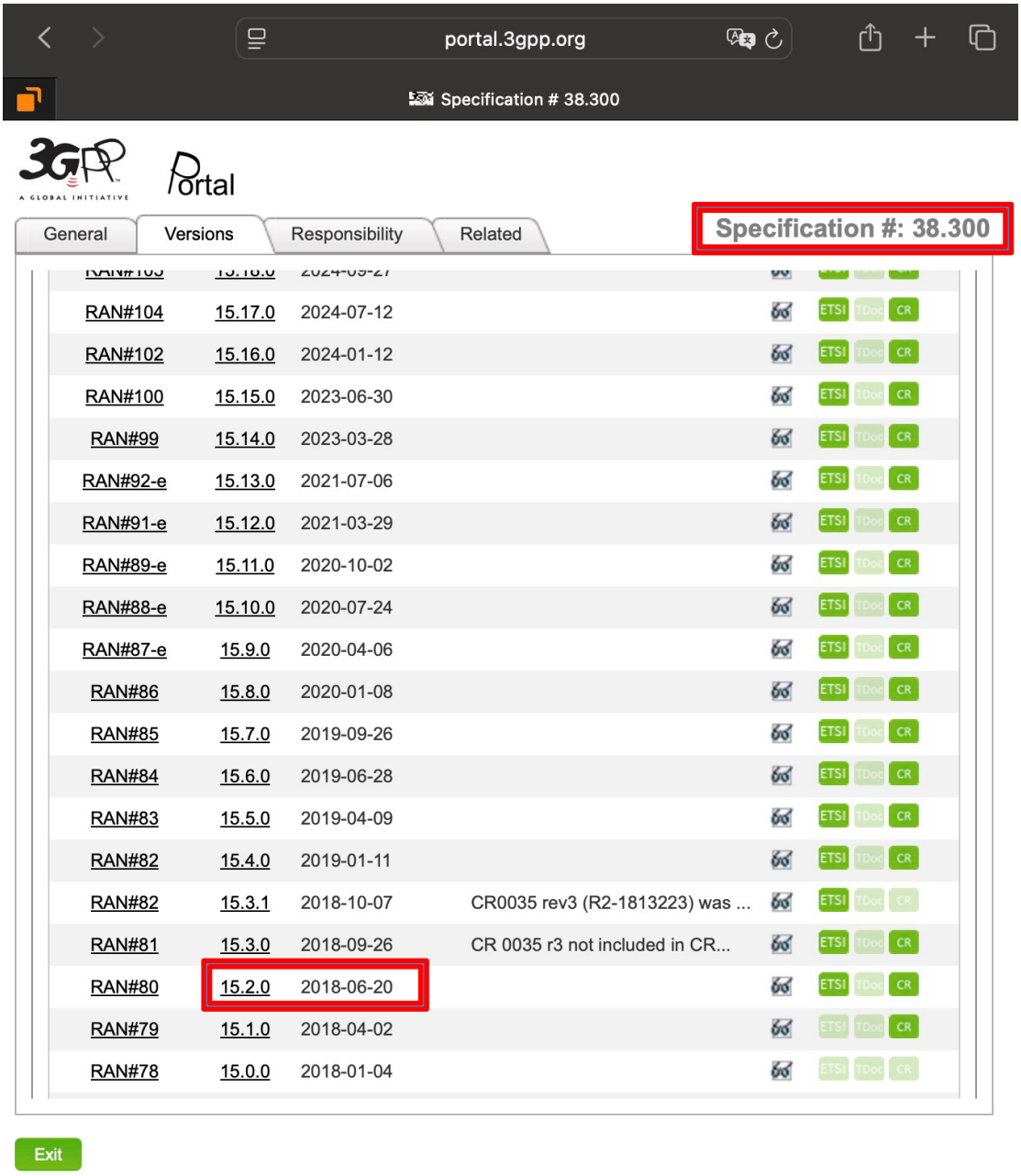
85. This last modified date well aligned with the June 20, 2018, upload date of the document, and the standard business practice among 3GPP participants to upload submissions shortly after completing them.

86. Furthermore, the availability of several new RAN2 specification versions including TS 38.300 V15.2.0 (filename 38300-f20) was announced by the RAN WG2 secretary via the public 3GPP_TSG_RAN_WG2 email exploder on June 25, 2018, as shown in Appendix H. As of today, the 3GPP_TSG_RAN_WG2 email exploder has around 1,100 subscribers at https://list.etsi.org/scripts/wa.exe?INDEX. According to my experience I would expect a similar or only slightly smaller number of subscribers around 2018.

87. I believe that a person without prior knowledge of 3GPP and/or the technical specification (TS) number would have been able to easily find the TS for download via internet search. For instance, a Google search for "NR overall description" provides the TS number "38.300" as one of the top results as can be seen in the screenshot below:



88. Following the provided search result link "Specification # 38.300" leads to a 3GPP web page offering under the tab "Versions" download links to all versions of TS 38.300 including version 15.2.0, as shown by the screenshot below:



89. The above example search illustrates that it is very easy for an interested member of the public without prior knowledge of the TS number and even without prior knowledge of 3GPP to locate any version of TS 38.300, including version 15.2.0, for download.

90. The above search was performed at the time of writing this report. According to my personal experience, in June 2018 or around that timeframe it would have been similarly straightforward to locate a path to download version 15.2.0 of TS 38.300.

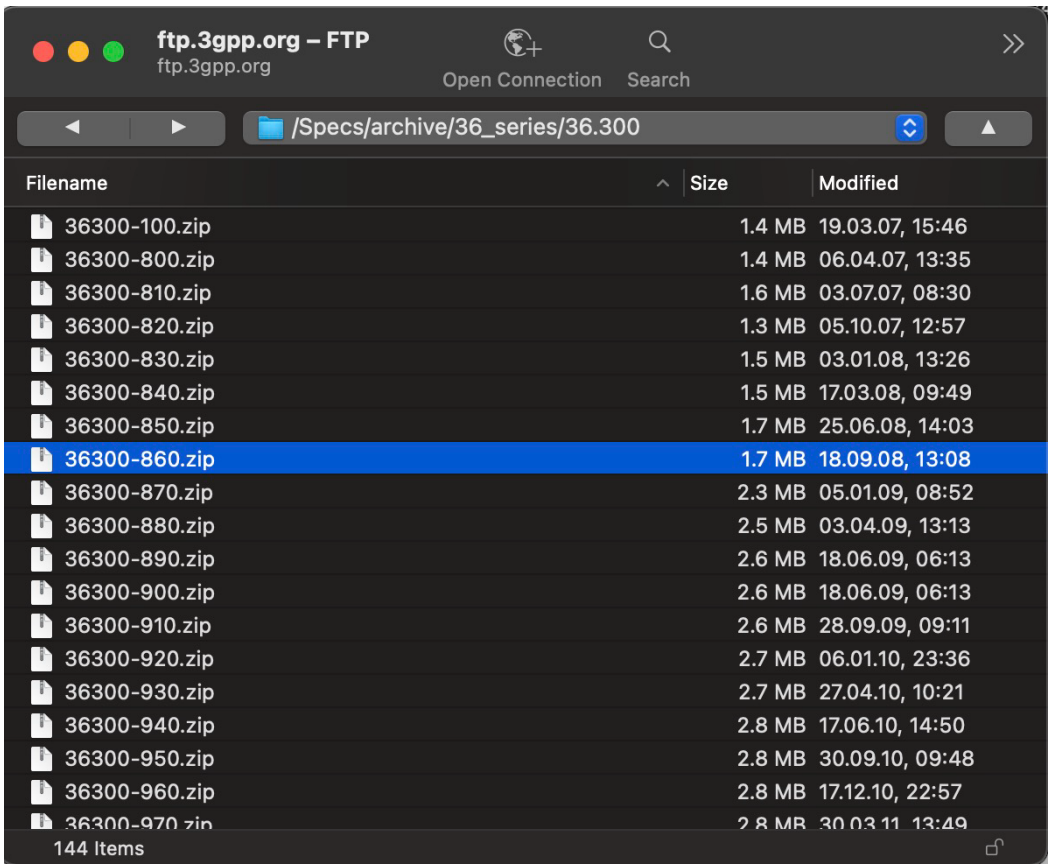
91. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, this information tells me that this document was available to all 3GPP members and the general public by June 20, 2018, at the latest.

5. TS 36.300 V8.6.0

92. Based on my personal knowledge and my review of 3GPP's business records, I recognize Ex. 1017 as a true and correct copy of version 8.6.0 of technical specification 3GPP TS 36.300 ("3rd Generation Partnership Project; Technical Specification Group (TSG) Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2 (Release 8)"), which shows on its cover page "2008-09" as the year (2008) and month (September) during which this document was released by 3GPP.

93. The document was published and freely available on 3GPP's FTP server by September 18, 2008. This is confirmed by the date stamp shown on the

historic 3GPP FTP server for the corresponding downloadable file ("36300-860.zip"), as maintained by the Internet Archive at https://web.archive.org/web/20080926120746/http://www.3gpp.org/ftp/Specs/archive/36%5Fseries/36.300/. This information is also shown on the date stamp for the present-day listing of the same document on the 3GPP FTP server at https://www.3gpp.org/ftp/Specs/archive/36_series/36.300, as shown by the screenshot below:



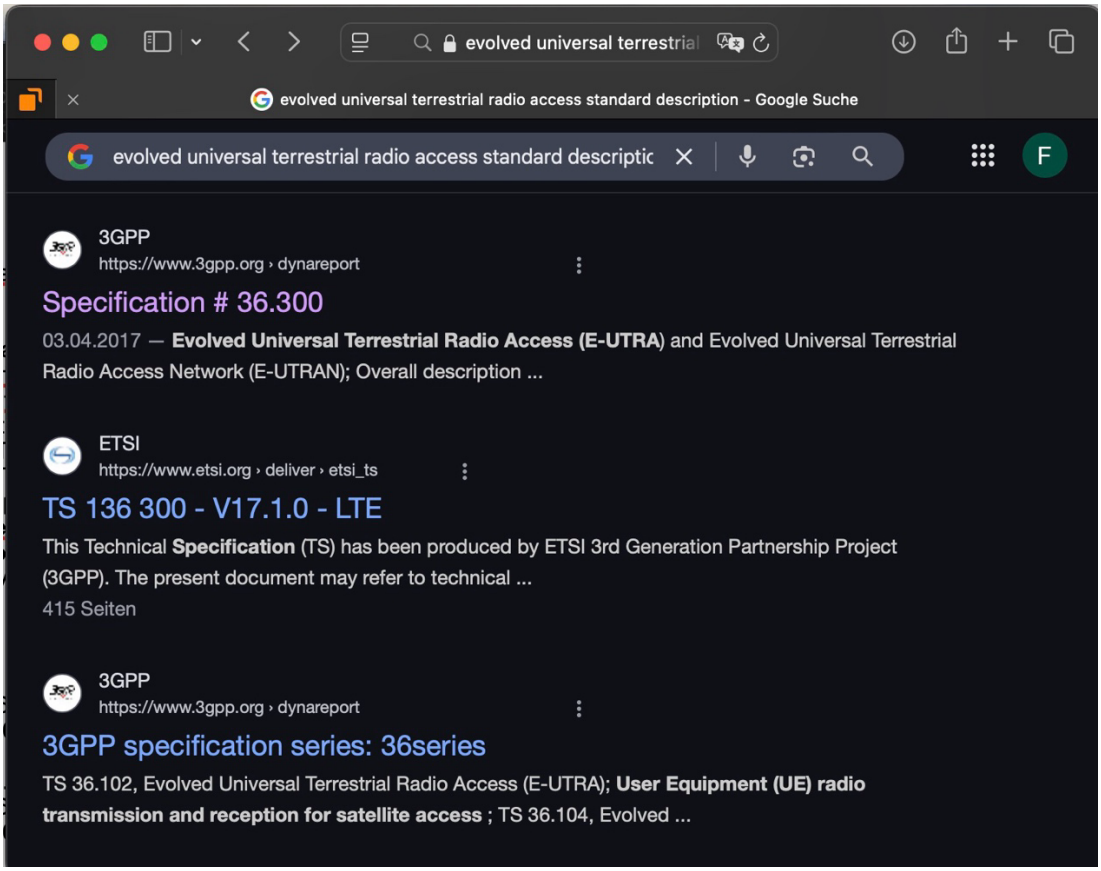
94. In addition, metadata information for the downloaded and extracted specification file states a last modified date of "15. September 2008", as shown in the screenshot below:



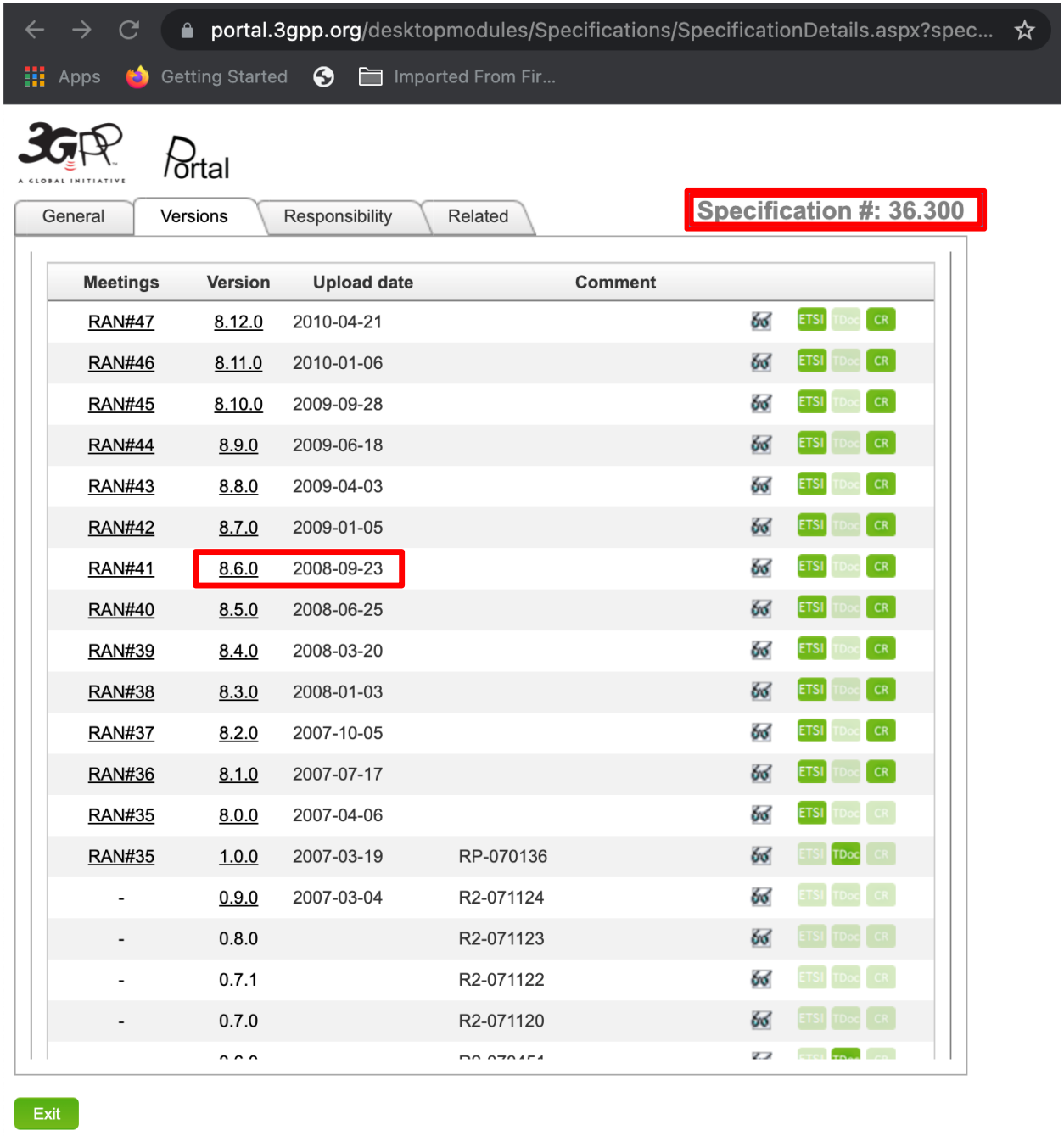
95. This last modified date well aligned with the September 18, 2008, upload date of the document, and the standard business practice among 3GPP participants to upload submissions shortly after completing them.

96. Furthermore, the availability of the new RAN2 specification versions including TS 36.300 V8.6.0 was announced by the RAN WG2 secretary via the public 3GPP_TSG_RAN_WG2 email exploder on September 18, 2008, as shown in Appendix I. Around that time, the 3GPP_TSG_RAN_WG2 email exploder had around 1,000 subscribers as can been seen at https://web.archive.org/web/20080919101919/http://list.etsi.org/.

97. I believe that a person without prior knowledge of 3GPP and/or the technical specification (TS) number would have been able to easily find the TS for download via internet search. For instance, a Google search for “evolved universal terrestrial radio access standard description” provides the TS number “36.300” as one of the top results, as can be seen in the screenshot below:



98. Following the provided search result link "Specification # 36.300" leads to a 3GPP web page offering under the tab "Versions" download links to all versions of TS 36.300 including version 8.6.0, as shown by the screenshot below:



99. The above example search illustrates that it is very easy for an interested member of the public without prior knowledge of the TS number and even without prior knowledge of 3GPP to locate any version of TS 36.300, including version 8.6.0, for download.

100. The above search was performed at the time of writing this report. According to my personal experience, similar searches done in September 2008 or around that timeframe would have similarly provided the path to download version 8.6.0 of TS 36.300.

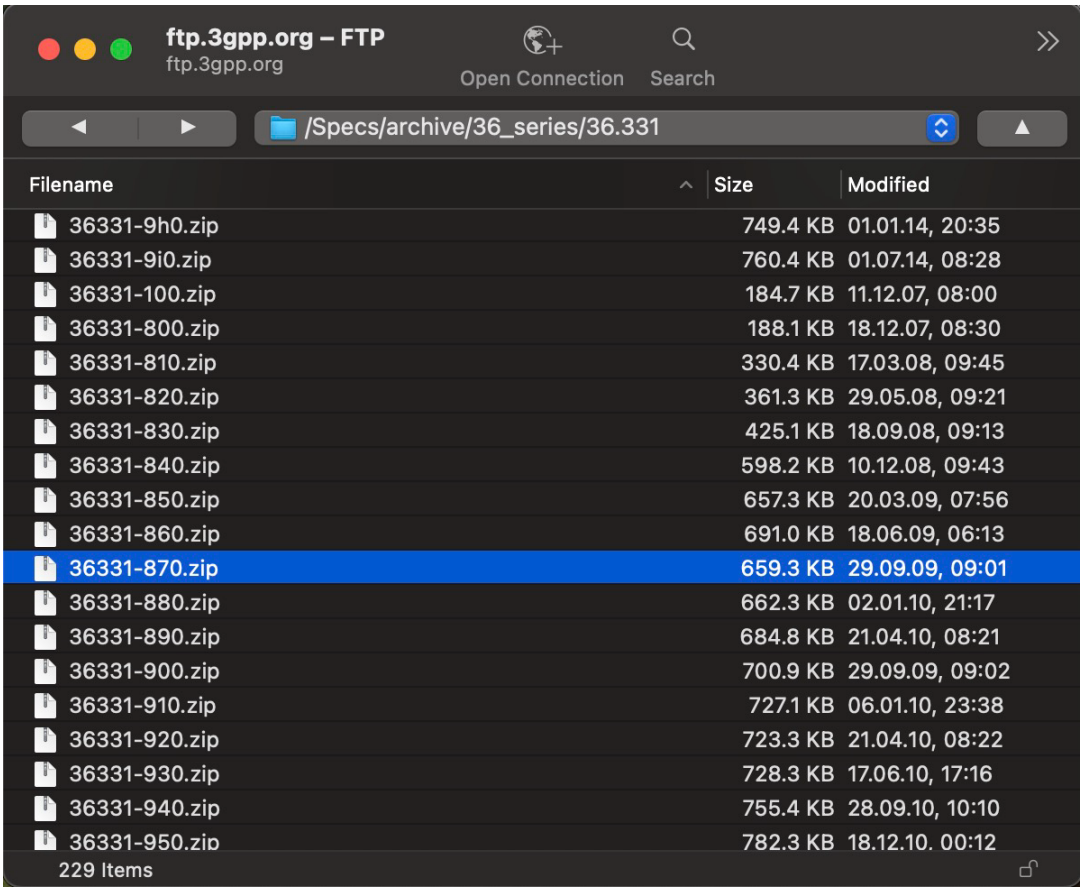
101. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, this information tells me that this document was available to all 3GPP members and the general public by September 18, 2008, at the latest.

6. TS 36.331 V8.7.0

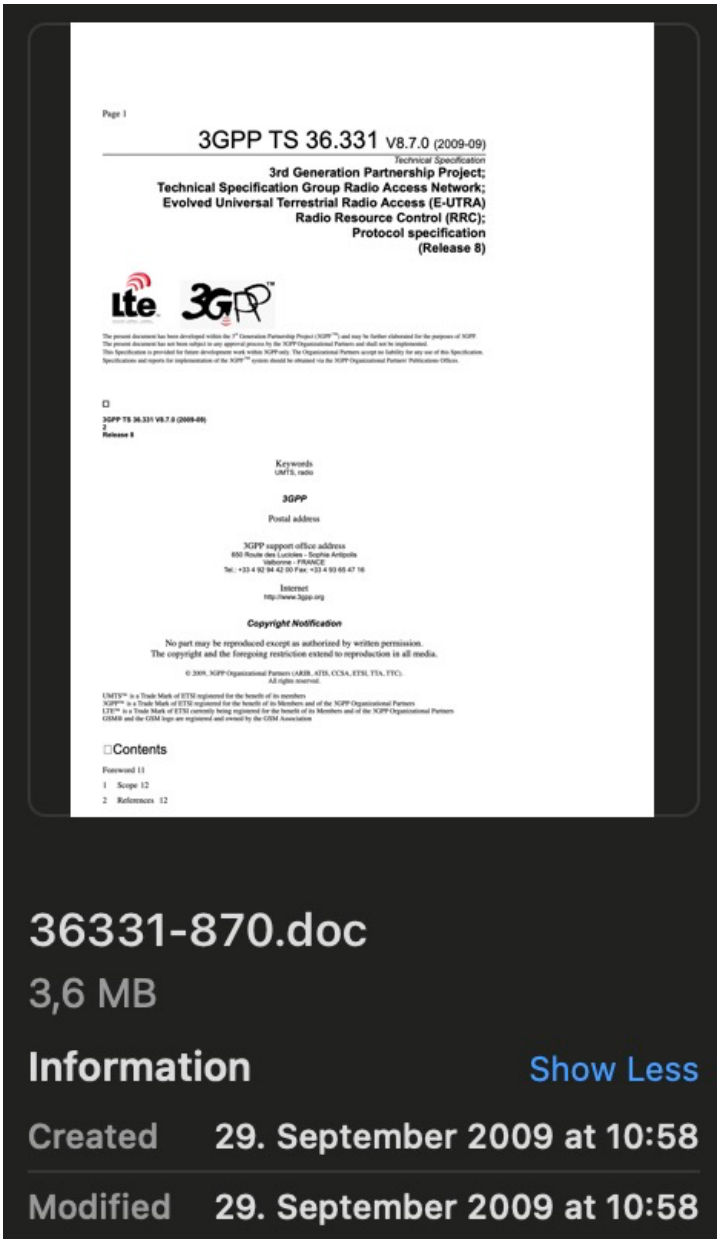
102. Based on my personal knowledge and my review of 3GPP's business records, I recognize Ex. 1018 as a true and correct copy of version 8.7.0 of technical specification 3GPP TS 36.331 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification (Release 8)"), which shows on its cover page "2009-09" as the year (2009) and month (September) during which this document was released by 3GPP.

103. The document was published and freely available on 3GPP's FTP server by September 29, 2009, at the latest. This is confirmed by the date stamp shown on the historic 3GPP FTP server for the corresponding downloadable file

("36331-870.zip"), as maintained by the Internet Archive at https://web.archive.org/web/20140621152924/http://www.3gpp.org:80/ftp/specs/archive/36_series/36.331. This information is also shown on the date stamp for the present-day listing of the same document on the 3GPP FTP server at https://www.3gpp.org/ftp/Specs/archive/36_series/36.331, as shown by the screenshot below:



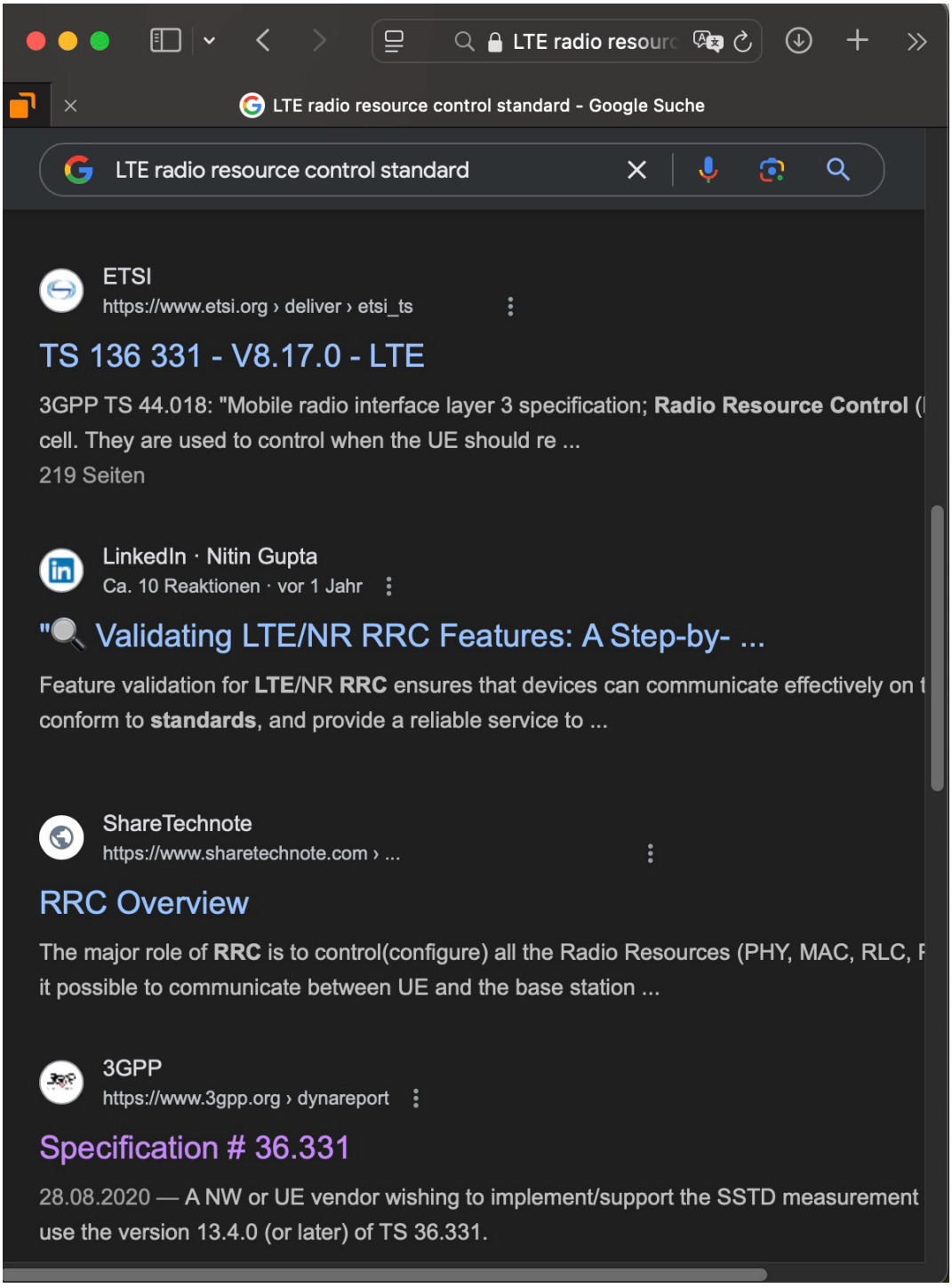
104. In addition, metadata information for the downloaded and extracted specification file states a last Modified date of "29. September 2009", as shown in the screenshot below:



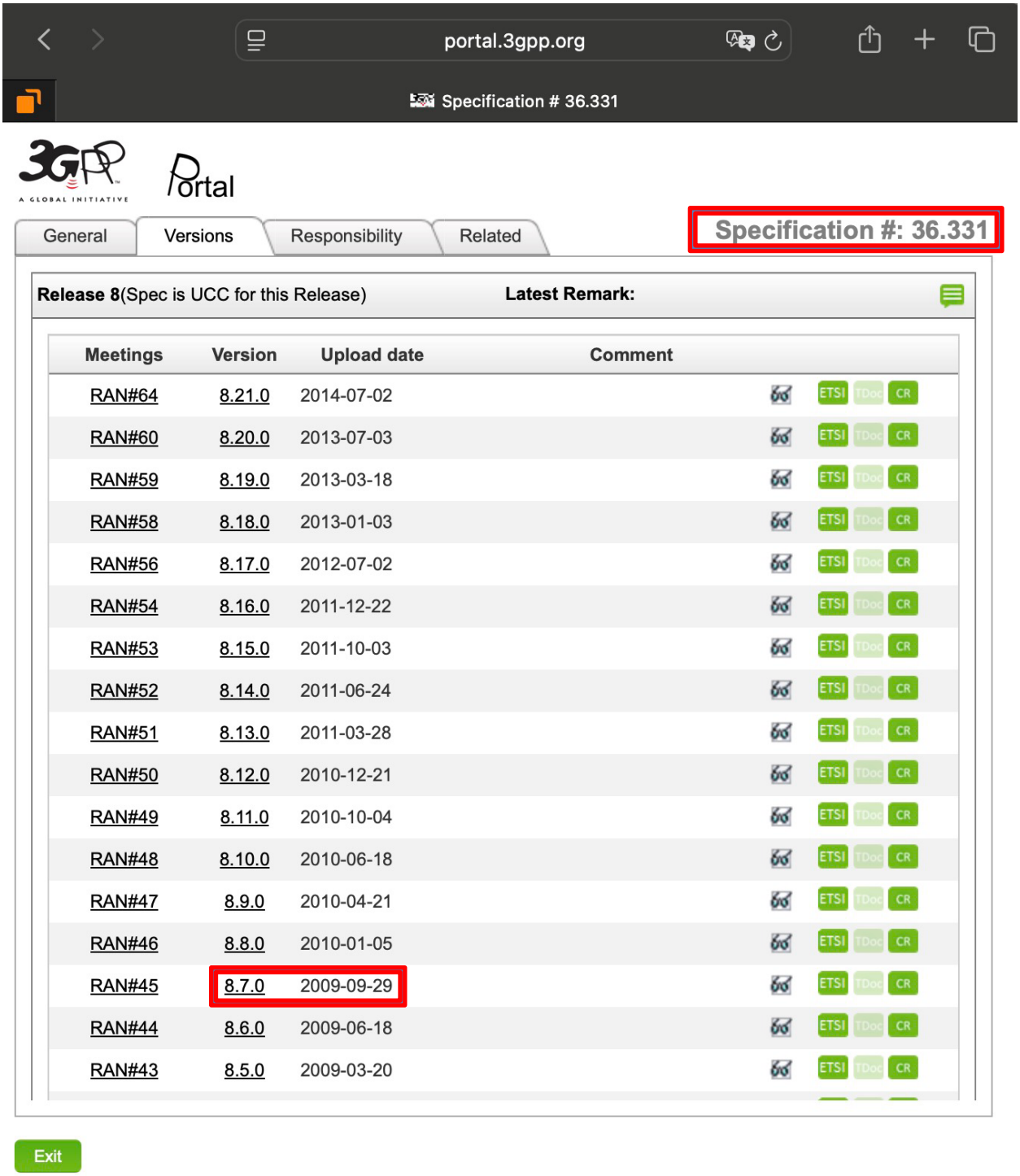
105. This last modified date well aligned with the September 29, 2009, upload date of the document, and the standard business practice among 3GPP participants to upload submissions shortly after completing them.

106. Furthermore, the availability of new RAN2 specification versions including TS 36.331 V8.7.0 was announced by the RAN WG2 secretary via the public 3GPP_TSG_RAN_WG2 email exploder on September 29, 2009, as shown in Appendix J. Around that time, the 3GPP_TSG_RAN_WG2 email exploder had nearly 1.100 subscribers as can been seen at https://web.archive.org/web/20090911184633/http://list.etsi.org:80/.

107. I believe that a person without prior knowledge of 3GPP and/or the technical specification (TS) number would have been able to easily find the TS for download via internet search. For instance, a Google search for “LTE radio resource control standard” provides the TS number “36.331” as one of the top results as can be seen in the screenshot below:



108. Following the provided search result link "Specification # 36.331" leads to a 3GPP web page offering under the tab "Versions" download links to all versions of TS 36.331 including version 8.7.0, as shown by the screenshot below:


portal.3gpp.org
Specification # 36.331
3GPP
A GLOBAL INITIATIVE
Portal
General
Versions
Responsibility
Related
Specification #: 36.331
Release 8(Spec is UCC for this Release)
Latest Remark:
Meetings
Version
Upload date
Comment
RAN#64 8.21.0 2014-07-02
RAN#60 8.20.0 2013-07-03
RAN#59 8.19.0 2013-03-18
RAN#58 8.18.0 2013-01-03
RAN#56 8.17.0 2012-07-02
RAN#54 8.16.0 2011-12-22
RAN#53 8.15.0 2011-10-03
RAN#52 8.14.0 2011-06-24
RAN#51 8.13.0 2011-03-28
RAN#50 8.12.0 2010-12-21
RAN#49 8.11.0 2010-10-04
RAN#48 8.10.0 2010-06-18
RAN#47 8.9.0 2010-04-21
RAN#46 8.8.0 2010-01-05
RAN#45 8.7.0 2009-09-29
RAN#44 8.6.0 2009-06-18
RAN#43 8.5.0 2009-03-20
ETSI
TDoc
CR
Exit

109. The above example search illustrates that it is very easy for an interested member of the public without prior knowledge of the TS number and even without prior knowledge of 3GPP to locate any version of TS 36.331, including version 8.7.0, for download.

110. The above search was performed near the time of writing this report. According to my personal experience, similar searches done in September 2009 or around that timeframe would have similarly provided the path to download version 8.7.0 of TS 36.331.

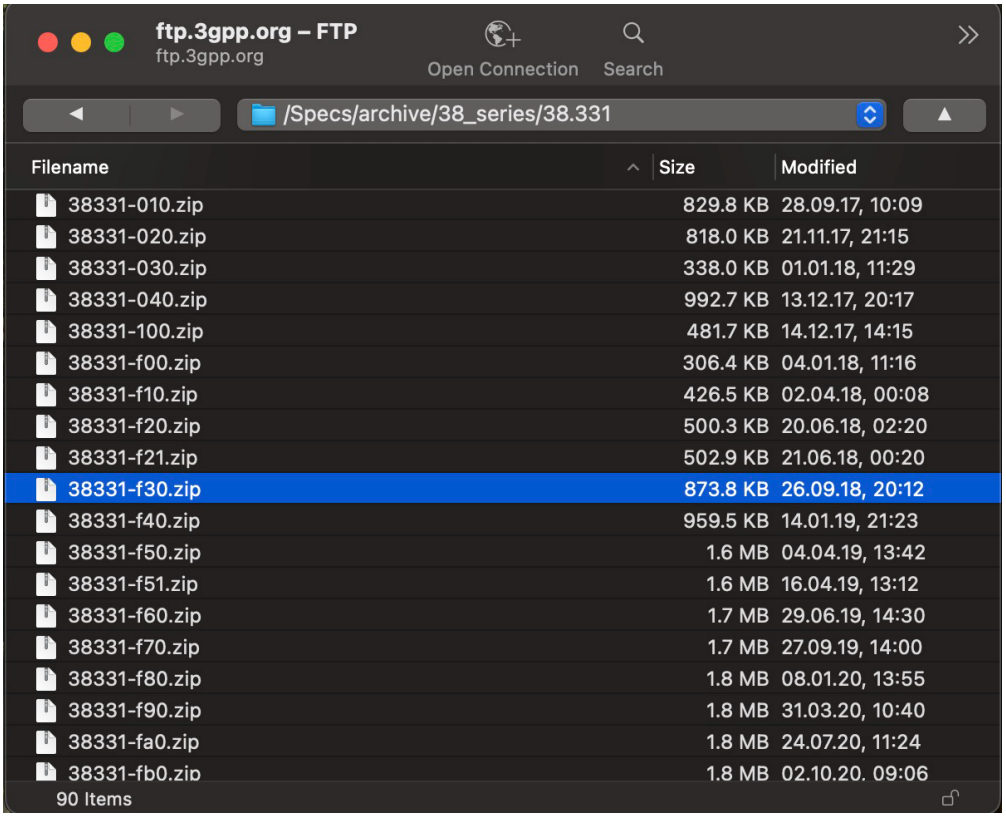
111. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, this information tells me that this document was available to all 3GPP members and the general public by September 29, 2009, at the latest.

7. TS 38.331 V15.3.0

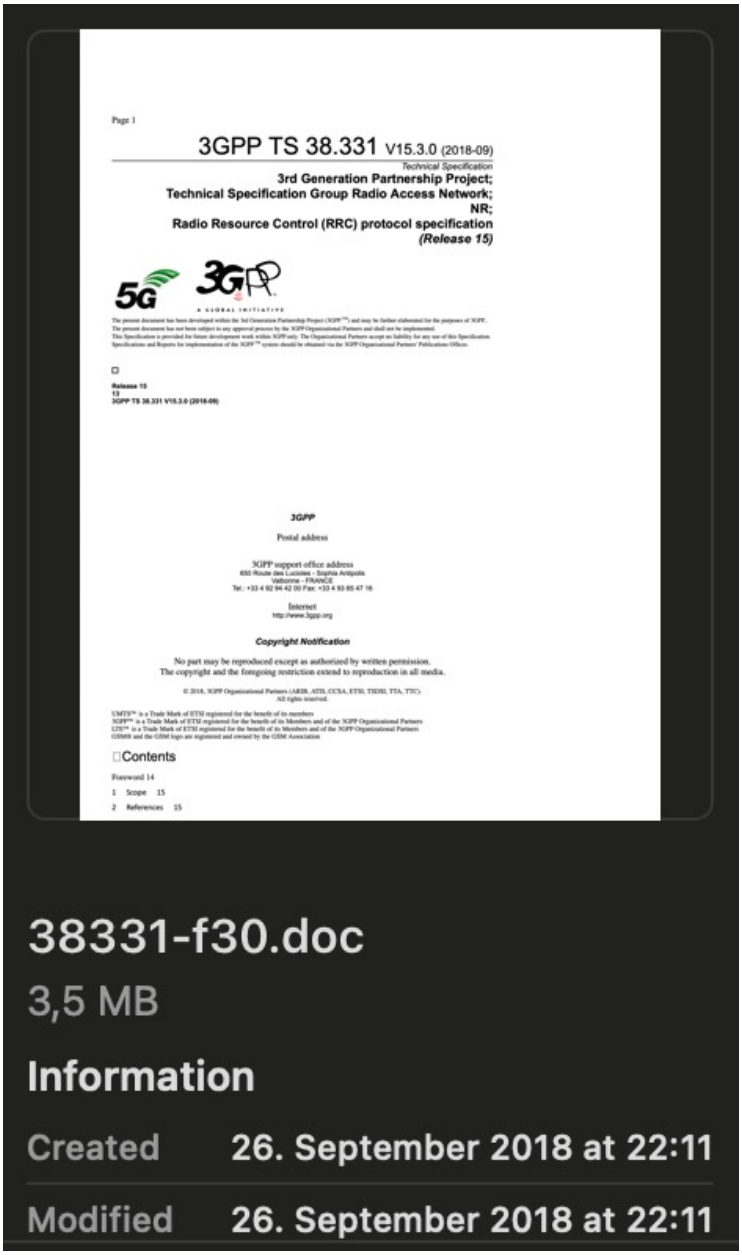
112. Based on my personal knowledge and my review of 3GPP's business records, I recognize Ex. 1021 as a true and correct copy of version 15.3.0 of technical specification 3GPP TS 38.331 ("3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Radio Resource Control (RRC) protocol specification (Release 15)"), which shows on its cover page "2018-09" as

the year (2018) and month (September) during which this document was released by 3GPP.

113. The document was published and freely available on 3GPP's FTP server by September 26, 2018. This is confirmed by the date stamp shown on the historic 3GPP FTP server for the corresponding downloadable file ("38331-f30.zip"), as maintained by the Internet Archive at https://web.archive.org/web/20181006191054/http://www.3gpp.org:80/ftp/Specs/archive/38_series/38.331. This information is also shown on the date stamp for the present-day listing of the same document on the 3GPP FTP server at https://www.3gpp.org/ftp/Specs/archive/38_series/38.331, as shown by the screenshot below:



114. In addition, metadata information for the downloaded and extracted specification file states a last "Modified" date of "26. September 2018", as shown in the screenshot below:

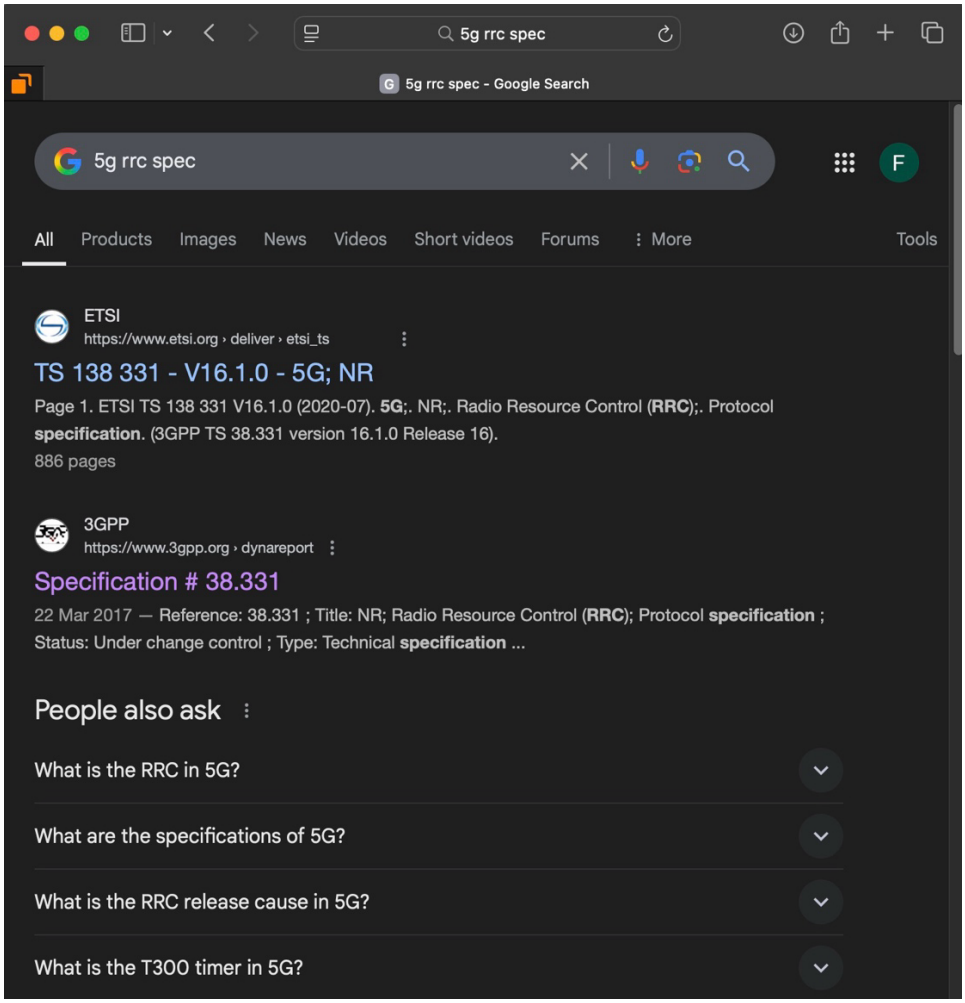


115. This last modified date is well aligned with the September 26, 2018, upload date of the document, and the standard business practice among 3GPP participants to upload documents shortly after completing them.

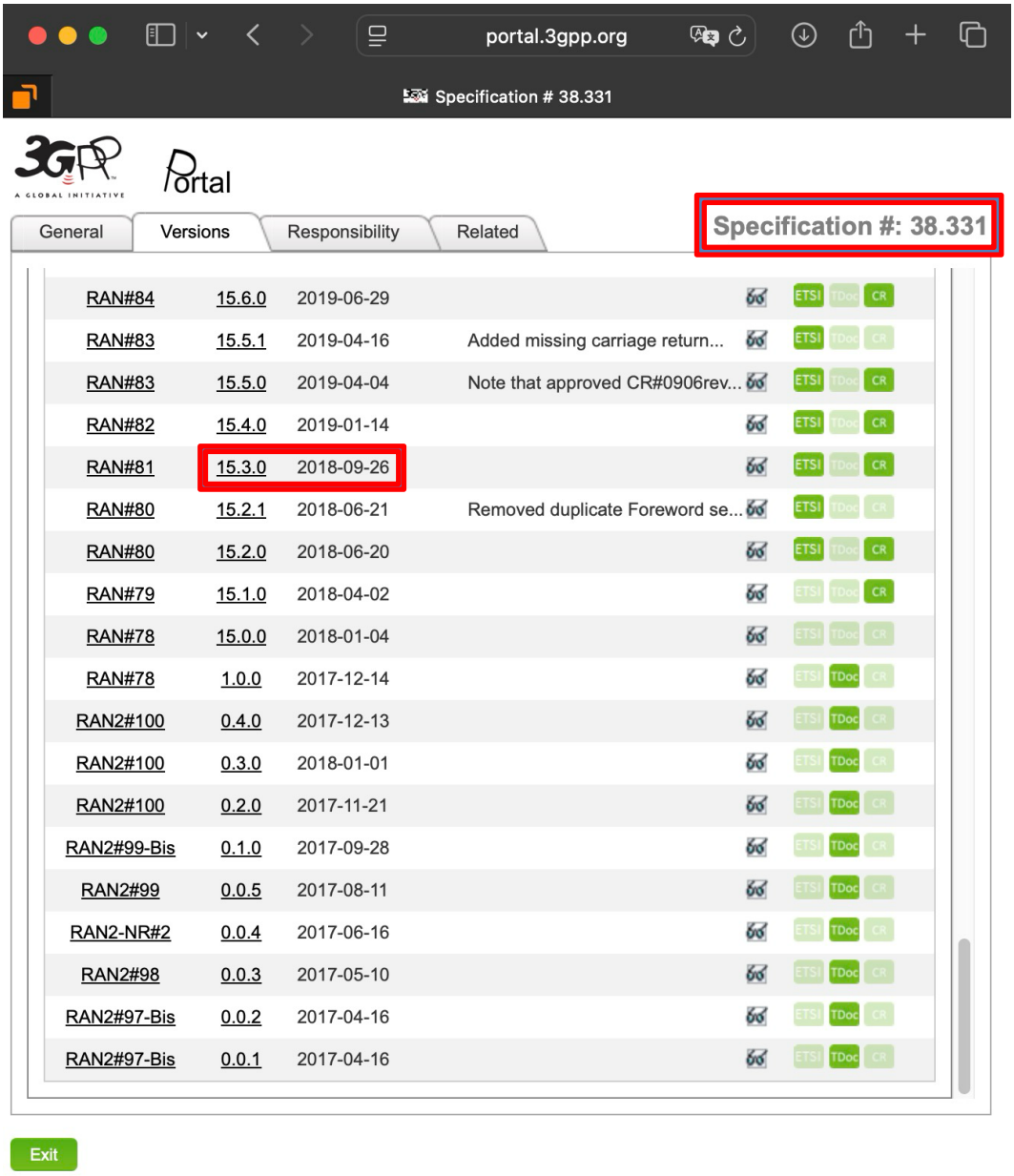
116. Furthermore, the availability of new RAN2 specification versions including TS 38.331 V15.3.0 was announced by the RAN WG2 secretary via the

public 3GPP_TSG_RAN_WG2 email exploder on September 26, 2018, as shown in Appendix K. As of today, the 3GPP_TSG_RAN_WG2 email exploder has around 1100 subscribers at https://list.etsi.org/scripts/wa.exe?INDEX. According to my experience I would expect a similar or only slightly smaller number of subscribers around 2018.

117. I believe that a person without prior knowledge of 3GPP and/or the technical specification (TS) number would have been able to easily find the TS for download via internet search. For instance, a Google search for "5g rrc spec" provides the TS number "38.331" as one of the top results as can be seen in the screenshot below:



118. Following the provided search result link "Specification # 38.331" leads to a 3GPP web page offering under the tab "Versions" download links to all versions of TS 38.331 including version 15.3.0, as shown by the screenshot below:



119. The above example search illustrates that it is very easy for an interested member of the public without prior knowledge of the TS number and even without prior knowledge of 3GPP to locate any version of TS 38.331, including version 15.3.0, for download.

120. The above search was performed at the time of writing this report. According to my personal experience, in September 2018 or around that timeframe it would have been similarly straightforward to locate a path to download version 15.3.0 of TS 38.331.

121. Thus, based on my personal knowledge and experience with ETSI's and 3GPP's standard business practices, this information tells me that this document was available to all 3GPP members and the general public by September 26, 2018, at the latest.

V. AVAILABILITY FOR CROSS-EXAMINATION

122. In signing this declaration, I recognize that the declaration may be filed as evidence in a contested case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross examination in the case and that cross examination will take place within the United States. If cross examination is required of me, I will cooperate to the best of my ability to appear for cross examination within the United States during the time allotted for cross examination.

A. Right To Supplement

123. I reserve the right to supplement my opinions in the future to respond to any arguments that the Patent Owner raises and to take into account new information as it becomes available to me.

B. Signature

124. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

125. I declare under penalty of perjury that the foregoing is true and correct.

Dated: July 10, 2025



Friedhelm Rodermund

APPENDIX A

CURRICULUM VITAE

I. PERSONAL DATA

Name: **Friedhelm RODERMUND**

Mailing address: Am Steiner Graben 18
56077 Koblenz, Germany

Phone: +49 172 2606489

Email: fred@iotecc.com

II. PROFESSIONAL EXPERIENCE

Summary

Senior expert in telecommunications and Internet of Things (IoT) technology. 25 years of experience within the mobile communications industry, and several years in the IoT domain in various roles such as project management, technology innovation and evolution, standards development, technology strategy, patent creation and patent litigations, and development/introduction of new services.

Recognized standards expert who was actively involved in leading roles in the development of key standards for mobile telephony/data and service anablers across standards development organizations such as 3GPP, ETSI, GSMA, IETF, OMA, and oneM2M. Currently focussing on standards for the Internet of Things including ETSI and 3GPP standards such as 5G and 6G, and OMA Lightweight M2M (LwM2M).

Founder and director of IOTECC GmbH which provides consulting services around technologies and standards enabling the Internet of Things, and consulting and expert services related to patents for mobile telcommunications and IoT.

01/2015 – present **IOTECC GmbH** **Koblenz, Germany**

Founder and CEO

- Mobile telecommunications, Internet of Things (IoT) technology and standards consulting
- Telecommunications and IoT patent consulting
  - Consulting services around telecommunications and IoT patents in particular related to 3GPP, ETSI and OMA standards
  - State of the art/prior art research services related to patent filing e.g. for 5G and 6G
  - Prior art research, essentiality assessment, patent infringement analysis related to litigations and validity actions
  - Advising on IP strategy
  - Advising on Standards Development Organisations (SDO) e.g. ETSI and 3GPP working processes and IPR policy
  - Conducting seminar on Standards Essential Patents (SEPs) for the Internet of Things at the Technical University of Ilmenau, Germany
  - Experienced expert witness (please see section III for a list of supported actions)

11/2014 – 12/2014 **Friedhelm Rodermund Consulting** **Koblenz, Germany**

Internet of Things (IoT) Consultant

- IoT standards development and introduction of new IoT services

01/2011 – 10/2014 Vodafone Germany / Vodafone Group R&D Düsseldorf, Germany

Senior Standards Strategist
- Representing Vodafone in various standardisation bodies
- Creating technical standards for the Internet of Things
- Work item lead, technical editor and key contributor of Open Mobile Alliance (OMA) "Lightweight M2M (LwM2M)" – the new standard for the Internet of Things
- Advising and supporting various IoT/M2M projects related to e.g. smart metering
- Advising on the introduction of new IoT/M2M technologies and services
- Leading Proof of Concepts of emerging technologies
- Involved in innovation projects
- Supporting the creation and protection of Intellectual Property

01/2009 – 12/2010 Vodafone Germany Düsseldorf, Germany

Vice Chairman Open Mobile Alliance (OMA) Device Management (DM)
- Responsible for Vodafone's Device Management standardisation
- As OMA DM Vice Chairman, co-leading the group, chairing committee meetings and web conferences, steering the technical direction, management of the different work items
- Editor of several specifications, rapporteur of various work items
- Support of projects for the introduction of device management
- Delegate to 3GPP SA1 with responsiblity for the introduction of MTC (machine type communications) related service/network requirements

01/2005 – 12/2008 Vodafone Germany Düsseldorf, Germany

Project Manager Mobile Broadcast Standards
- Responsible for Mobile Broadcast standardisation across different broadcast systems/standards bodies and across all Vodafone local operations
- Responsible for Mobile Broadcast standardisation strategy development and implementation
- Delegation Lead for the Open Mobile Alliance (OMA) BCAST working group
- Initiated and managed the BCAST device profile development in the BMCO Forum
- Leading the "Service Protection" (pay-TV) stream of the German DVB-H Consortium
- Filed several patents
- Supporting patent litigations and patent portfolio evaluation (various technical areas)

04/2003 – 12/2003 GSM Association London, United Kingdom

Member of the MMS Task Force
- Verification of the MMS operator interworking framework
- Supporting the definition and specification of the MMS functional evolution
- Acting as a "link" between 3GPP and GSMA in the area of MMS

06/1998 – 12/2004 European Telecommunications Standards Institute (ETSI)
Sophia Antipolis, France

01/2002 – 12/2004: Secretary 3GPP Technical Specifications Group *"Terminals"* and Terminals Working Group 2 *"Terminal Services and Capabilities"*

Samsung Exhibit 1012, Page 73 of 773

01/1999 – 12/2001: Secretary 3GPP Terminals Working Group 2 *"Terminal Services and Capabilities"* and GERAN 3 *"Base Station Testing"*

06/1998 – 03/1999: Secretary ETSI SMG4 *"Data Services"* and SMG8 *"Base Station Testing"*

- Supported the establishment of 3GPP (3rd Generation Partnership Project) as the leading standards organization for mobile telecommunications
- Project manager and secretary of TSG "Terminals" reponsbile for Terminal Conformance Testing, Terminal Services and Capabilities, Universal Subscriber Identity Module (USIM)
- Project manager and secretary of Terminals Working Group 2 "Terminal Services and Capabilities" that was responsible for Terminal Execution Environments, Messaging including Short Message Service (SMS), Cell Broadcast Service (CBS), Enhanced Messaging Service (EMS), Multimedia Messaging Service (MMS), Terminal Interfaces incl. AT-commands, Generic User Profile, Data Synchronization and others
- Establishment and management of the Work Plan and follow-up and report on the progress of the related work items
- Advising the chairmen and the standards groups on technical, procedural and political issues
- Editorship of various GSM and UMTS technical specifications
- Responsible for presenting the technical results of the working groups to the parent body
- Responsible for the communication with other standards bodies inside and outside 3GPP
- PR activities (articles, interviews)

12/1993 – 06/1998 Mannesmann Mobilfunk GmbH Düsseldorf, Germany

System Engineer and Project Manager in Quality Assurance and Technical Standards

- Leadership and management of acceptance test projects in the area of GSM Base Station Controller (BSC) and GSM Base Station (BTS) hardware and software.
- Leading project teams of around 15 people
- Responsible for the clearance of releasing new software/hardware into the network
- Supported Request for Quotations, supplier evaluation and pre-selection, project manager of System Verification as a central part of the supplier selection process.
- Representation of Mannesmann Mobilfunk to the ETSI standardization group "Standardization Technical Committee SMG3 System Architecture"
- Conduction of product and hardware development quality audits
- Representative of Mannesmann Mobilfunk in A-interface interoperability testing activities
- Member of BSS product planning group which was defining operator requirements for future BSS releases
- Development of process improvements for type acceptance

III. LIST OF SUPPORTED PATENT LITIGATIONS AND VALIDITY ACTIONS

2025

Pantech Corp. v. OnePlus Technology Co., Ltd
Inter Partes Review matters
On behalf of OnePlus
Counsel: Bayes PLLC
Role: Expert witness and consulting services

2025

Pantech Corp. v. OnePlus Technology Co., Ltd.
Inter Partes Review matters
On behalf of OnePlus
Counsel: Leydig, Voit & Mayer, Ltd.
Role: Expert witness and consulting services

2025

Apex Beam Technologies LLC v. Apple Inc.
Inter Partes Review matters
On behalf of Apple
Counsel: Fish&Richardson P.C.
Role: Expert witness and consulting services

2024

Pantech Corporation v. Oppo Mobile Telecommunications Corp., Ltd.
Inter Partes Review matters
On behalf of Oppo
Counsel: Bayes PLLC
Role: Expert witness and consulting services

2024

Pantech Corp. et al. v. LG Electronics Inc. et al.
Civil Action No. 5:22-cv-00113-RWS-JBB (E.D.Tx.)
On behalf of LG Electronics
Counsel: Ropes & Gray LLP
Role: Expert witness and consulting services

2024

Ericsson v. Lenovo
Inter Partes Review matters
On behalf of Lenovo
Counsel: Kirkland & Ellis LLP
Role: Expert witness and consulting services

2024

Pantech Corp. et al. v. OnePlus Technology Co., Ltd.
Civil Action No. 5:22-cv-00069-RWS (E.D.Tx.)
On behalf of OnePlus
Counsel: Leydig, Voit & Mayer, Ltd.
Role: Expert witness and consulting services

2024

G+ Communications, LLC, v. Samsung Electronics Co., Ltd.
Civil Action No. 2:22-CV-78 (E.D.Tx.)
On behalf of Samsung
Counsel: Fish&Richardson P.C.
Role: Expert witness and consulting services

2023

Unified Patents, LLC v. Helios Streaming LLC

Inter Partes Review matters
On behalf of Unified Patents
Counsel: Akin
Role: Expert witness and consulting services

2023

Unified Patents, LLC v. SLS Manager Technologies
Inter Partes Review matters
On behalf of Unified Patents
Counsel: Unified Patents
Role: Expert witness and consulting services

2023

Headwater Research LLC v. Samsung Electronics Co., Ltd.
Inter Partes Review matters
On behalf of Samsung
Counsel: Fish&Richardson P.C.
Role: Expert witness and consulting services

2023

Pantech Corp. et al. v. LG Electronics Inc. et al.
Inter Partes Review matters
On behalf of LG Electronics
Counsel: Ropes & Gray LLP
Role: Expert witness and consulting services

2023

Apple Computer Trading (Shanghai) Co., Ltd, Apple Electronics Products Commerce (Beijing) Co., Ltd. v. Optis Cellular Technology LLC
Shenzhen, China, Intermediate People's Court
On behalf of Apple
Counsel: WilmerHale
Role: Expert witness and consulting services

2023

Huawei Technologies Co., Ltd. v. MediaTek Inc.
Inter Partes Review matters
On behalf of MediaTek
Counsel: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
Role: Expert witness and consulting service

2023

Apex Beam Technologies LLC v. Samsung
Inter Partes Review matters
On behalf of Samsung
Counsel: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
Role: Expert witness and consulting services

2022

Constellation Designs LLC v. LG Electronics, Inc.
Inter Partes Review matters
On behalf of LG Electronics
Counsel: Fish&Richardson P.C.
Role: Expert witness and consulting services

2022

Unified Patents, LLC v. Togail Technologies LTD.
Inter Partes Review matters
On behalf of Unified Patents
Counsel: Duane Morris LLP
Role: Expert witness and consulting services

2022

Ericsson v. Apple
Certain Mobile Telephones, Tablet Computers With Cellular Connectivity, And Smart Watches With Cellular Connectivity, Components Thereof, And Products Containing Same, Inv. No. 337-TA-1299 (U.S.I.T.C.)
On behalf of Apple
Counsel: WilmerHale
Role: Expert and consulting services

2022

Ericsson v. Apple
Civil Action No. 2:21-cv-376 (E.D.Tex.)
On behalf of Apple
Counsel: WilmerHale
Role: Expert and consulting services

2022

Intellectual Ventures II LLC v. Toyota Motor Cooperation.
Inter Partes Review matters
On behalf of Toyota
Counsel: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
Role: Expert witness and consulting services

2022

Ericsson v. Apple
2nd Business Court, Rio de Janeiro, Brazil
On behalf of Apple
Counsel: WilmerHale
Role: Expert and consulting services

2022

Ericsson v. Apple
Civil Court, Bogotá, Columbia
On behalf of Apple
Counsel: WilmerHale
Role: Expert and consulting services

2022

Proven Networks LLC. v. NetApp Inc.
Inter Partes Review matters
On behalf of NetApp
Counsel: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Ropes & Gray LLP
Role: Expert witness and consulting services

2022

Ericsson v. Apple
Inter Partes Review matters
On behalf of Apple
Counsel: Fish&Richardson, Erise IP
Role: Expert witness and consulting services

2021

AEGIS 11 LLC v. Hisense Company, Ltd. and Hisense USA Corporation
Inter Partes Review matters
On behalf of Hisense
Counsel: Orrik Herrington & Sutcliffe LLP
Role: Expert witness and consulting services

2021

Nokia v. Lenovo
Certain Electronic Devices, Including Computers, Tablet Computers, and Components and Modules Thereof, Inv. No. 337-TA-1208 (U.S.I.T.C.)

On behalf of Lenovo
Counsel: WilmerHale
Role: Expert witness and consulting services

2021

Optis Cellular Technology LLC et al. v. Apple
Claim No. HP-2019-000006 (High Court of Justice, Business and Property Courts of England and Wales)
On behalf of Apple
Counsel: WilmerHale
Role: Expert witness and consulting services

2021

Ericsson v. Samsung
Inter Partes Review matters
On behalf of Samsung
Counsel: Kirkland&Ellis LLP, Fish&Richardson
Role: Expert witness and consulting services

2020

Panoptis Patent Management LLC et al. v. Apple Inc.
Civil Action No. 2:19-cv-66 (E.D. Tex.)
On behalf of Apple
Counsel: WilmerHale
Role: Expert witness at bench trial

2020

Sol IP, LLC v. AT&T Mobility, LLC et al.
Civil Action No. 2:18-cv-526 (E.D. Tex.)
On behalf of AT&T, Verizon, Sprint
Counsel: Gibson Dunn
Role: Expert witness and consulting services

2020

Bell Northern Research LLC v. LG Electronics Inc. et al.
Civil Action No. 18-CV-2864-CAB-BLM (S.D. Cal.)
On behalf of LG Electronics Inc.
Counsel: Fish&Richardson
Role: Expert witness and consulting services

2019

Conversant Wireless Licensing S.a.r.l. v. LG Electronics Deutschland GmbH
Civil Action No. 7 O 3277/18 (Landgericht Munich, Germany)
On behalf of LG Electronics Deutschland GmbH
Counsel: Wildanger Kehrwald Graf von Schwerin & Partner mbB
Role: Expert witness and consulting services

2019

Bell Northern Research, LLC v. Huawei Device Co., Ltd, et al.
Civil Action No. 3:18-cv-01784-CAB-BLM
On behalf of Huawei
Counsel: Fish&Richardson
Role: Expert witness and consulting services

2019

Uniloc USA, Inc., et al. v. Samsung Electronics America, Inc. and Samsung Electronics Co. Ltd.
Civil Action Nos. 2:18-cv-00040-JRG, 2:18-cv-00041-JRG, 2:18-cv-00042-JRG and 2:18-cv-00044-JRG (United States District Court for the Eastern District of Texas)
On behalf of Samsung
Counsel: Greenberg Traurig
Role: Expert witness and consulting services

2019

Uniloc USA, Inc., et al. v. Huawei Device USA, Inc. et al.
Civil Action No. 2:18-cv- 00072-JRG-RSP (E.D. Tex.)
On behalf of Huawei
Counsel: McGuireWoods
Role: Expert witness and consulting services

2019

Microsoft Corporation v. Uniloc 2017 LLC
Inter Partes Review of U.S. Pat. No. 7,167,487
Inter Partes Review of U.S. Pat. No. 7,075,917
On behalf of Microsoft and on behalf of Apple as joinder petitioner
Counsel: Klarquist Sparkman (Microsoft), Erise IP (Apple)
Role: Expert witness and consulting services

2019

Qualcomm v. KFTC
South Korean Case, Seoul High Court
On behalf of intervenor Apple supporting the KFTC
Counsel: Boies Schiller Flexner
Role: Expert witness

2018/19

Evolved Wireless, LLC v. Apple, Inc.
Civil Action No. 1:15-cv-00542-JFB-SRF
On behalf of Apple
Counsel: DLA Piper
Role: Expert witness and consulting services

2018/19

Cisco Systems Inc. v. Traxcell Technologies
Inter Partes Review of Traxcell Technologies patents
On behalf of Cisco
Counsel: King&Spalding
Role: Expert witness and consulting services

2018/19

Qualcomm Inc. v. Apple Inc.
Civil Action No. 3:17- cv-02398-DMS-MDD (United States District Court for the Southern District of California)
Civil Action No. 3:17-cv-02402-WQH-MDD
Certain Mobile Electronic Devices and Radio Frequency and Processing Components Thereof (II), Inv. No. 337-TA-1093
Inter Partes Review of U.S. PATENT NO. 9,154,356
Cases IPR2019-00047, IPR2019-00048, IPR2019-00049, IPR2019-00128, IPR2019-00129
On behalf of Apple and Intel
Counsel: WilmerHale
Role: Expert witness and consulting services

2018/19

Apple Inc. v. Qualcomm Inc.
Civil Action No. 3:17-CV-00108-GPC-MDD (United States District Court for the Southern District of California)
On behalf of Apple
Counsel: Fish&Richardson, Boies Schiller Flexner
Role: Expert witness and consulting services

2018

3G Licensing, S.A. et al. v. LG Electronics Inc. et al
Inter Partes Review of U.S. Patent No. 7,995,091
On behalf of LG Electronics

Counsel: Fish&Richardson
Role: Expert witness

2017

Huawei Technologies Co. LTD. v. T-Mobile US, Inc. & T-Mobile USA, Inc.
E.D. Tex. Case Nos. 2:16-cv-00052-JRG-RSP; 2:16-cv-00055-JRG-RSP; 2:16-cv-00056-JRG-RSP; and 2:16-cv-00057-JRG-RSP
On behalf of T-Mobile
Counsel: Gibson Dunn
Role: Expert witness and consulting services

2016

Koninklijke KPN N.V. v. Samsung Electronics America, Inc. et al.
Civil Action No. 14-cv-1165
On behalf of Samsung Electronics
Counsel: Baker Botts
Role: Expert witness and consulting services

2016

SSH v. Sony
OLG Düsseldorf, Germany
On behalf of SSH
Counsel: Cohausz&Florack
Role: Technical expert support

2015/16

LG Electronics v. Core Wireless Licensing S.A.R.L.
Inter Parles Review of U.S. Patent No. 8,165,049
On behalf of LG Electronics
Counsel: Greenberg Traurig
Role: Expert witness

2015/16

Core Wireless Licensing S.A.R.L. v. LG Electronics Inc. and LG Electronics MobileComm U.S.A., Inc
Civil Action No. 2:14-cv-911 (lead case) and Civil Action No. 2:14-cv-912 (consolidated)
On behalf of LG Electronics
Counsel: Greenberg Traurig, Sidley Austin
Role: Expert witness

2015

Intellectual Ventures I LLC v. T-Mobile USA, Inc. & T-Mobile US, Inc.
D. Del. Case No. 1:13-cv-01632
Intellectual Ventures II LLC v. T-Mobile USA, Inc. & T-Mobile US, Inc.
D. Del. Case No. 1:13-cv-01633
On behalf of T-Mobile
Counsel: Gibson Dunn
Role: Technical expert support

IV. EDUCATION

10/1984 – 10/1993 **University of Technology Aachen** **Aachen, Germany**
Graduate of Electrical Engineering with a focus on telecommunications technologies (Dipl.-Ing. TH)

10/1992 – 04/1993 **University of Technology Trondheim** **Trondheim, Norway**
Diploma Thesis "Design of a dual processor computer for digital signal processing in power electronics"

V. LANGUAGES

German, English, French

VI. PUBLICATIONS (selection)

- ”Standardessentielle Patente (SEPs) für das Internet der Dinge (IoT)”, PATINFO 2025 Proceedings, May 2025
- “The need for standardisation in the M2M services layer”, Global Telecoms Business, February 2014
- Co-authored white paper “Lightweight M2M: Enabling device management and applications for the internet of things”, Open Mobile Alliance, March 2014
- “Objects are a new way to create M2M applications”, Global Telecoms Business, April 2014
- “The need for standardisation in the M2M services layer”, M2M Now, July 2015
- “Objects are a new way to create M2M applications”, Global Telecoms Business, April 2014
- Co-authored white paper “Lightweight M2M: Enabling device management and applications for the internet of things”, Open Mobile Alliance, March 2014
- “The need for standardisation in the M2M services layer”, Global Telecoms Business, February 2014
- ”Unlocking the internet of things and driving the need for interoperability”, Global Telecoms Business, December 2013

APPENDIX B

Appendix	Description
A	Curriculum Vitae of Friedhelm Rodermund
B	List of Appendices
C	Report of RAN WG2 meeting #103bis held on October 8-12, 2018, in Chengdu, China
D	Document list of RAN WG2 meeting #103bis held on October 8-12, 2018, in Chengdu, China
E	Report of RAN WG2 meeting #104 held on November 12-16, 2018, in Spokane, USA
F	Document list of RAN WG2 meeting #104 held on November 12-16, 2018, in Spokane, USA
G	Email sent via the public 3GPP_TSG_RAN_WG2 email exploder on September 25, 2018, announcing the availability of TS 38.321 V15.3.0
H	Email sent via the public 3GPP_TSG_RAN_WG2 email exploder on June 25, 2018, announcing the availability of TS 38.300 V15.2.0
I	Email sent via the public 3GPP_TSG_RAN_WG2 email exploder on September 18, 2008, announcing the availability of TS 36.300 V8.6.0
J	Email sent via the public 3GPP_TSG_RAN_WG2 email exploder on September 29, 2009, announcing the availability of TS 36.331 V8.7.0
K	Email sent via the public 3GPP_TSG_RAN_WG2 email exploder on September 26, 2018, announcing the availability of TS 38.331 V15.3.0

APPENDIX C

3GPP TSG-RAN WG2 meeting #104 **R2-1816201**

Agenda Item: 2.2

Source: ETSI MCC

Title: Report of 3GPP TSG RAN2#103bis meeting, Chengdu, China

Document for: Approval

Report of 3GPP TSG RAN WG2 meeting #103bis
Chengdu, China
08 - 12 October, 2018

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Internet

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Organisation of the meeting

Meeting:	3GPP TSG RAN2#103bis
Meeting location:	Chengdu, China
Duration:	08 - 12.10.2018
Host:	CF3
TSG RAN WG2 Chairman:	Richard Burbidge (Intel Corporation) (richard.c.burbidge@intel.com)
TSG RAN WG2 Vice chairman:	Hu Nan (CMCC) (hunan@chinamobile.com)
TSG RAN WG2 Vice chairman:	Johan Johansson (MediaTek) (johan.johansson@mediatek.com)
TSG RAN WG2 MCC Support:	Juha Korhonen (ETSI MCC) (juha.korhonen@etsi.org)
Email reflector:	3GPP_TSG_RAN_WG2@LIST.ETSI.ORG
Technical documents:	ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_103bis/Docs
Next meetings:	TSG RAN2#104, 12.11 - 16.11.2018, Spokane, USA
	TSG RAN2#105, 25.02 - 01.03.2019, Athens, Greece

Statistics/Executive Summary

TSG RAN2#103bis was held in Chengdu, China, hosted by CF3. The meeting had 9 breakout sessions in addition to the main session. The main session was mainly about NR, especially NR control plane. The breakout sessions were:

- Rel-15 LTE and NR idle/inactive mobility
- NR-U SI
- NB-IoT
- MTC
- Legacy LTE and Rel-15 LTE, NR User plane, NTN
- Positioning
- V2X (LTE and NR)
- Rel-16 LTE Mobility Enhancements WI, IIoT
- L1 Parameters

The statistics from this meeting are:

- 313 participants checked in (registered: 409 participants).
- 2569 Tdoc numbers allocated with 2387 available contributions. (See the attached tdoc list)
- 73 incoming liaison statements, out of which 69 were noted.. The remaining 4 liaisons are to be treated in RAN2#104 meeting.
- 36 outgoing liaison statements.
- 43 email approvals/discussions scheduled after RAN2#103bis meeting, see Annex F for details.

- Number of CRs submitted: 1083. Out of these, 237 were agreed-in-principle. See Annex E for details.

11 Opening of the meeting (9 AM)

1.1 Call for IPR

The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs** they become aware of.

The delegates were asked to take note that they were hereby invited:

- to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.
- to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc)

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG2 Chairman.

1.2 Network usage conditions

The PCG has laid down the following network usage conditions

1. **Users shall not use the network to engage in illegal activities. This includes activities such as copyright violation, hacking, espionage or any other activity that may be prohibited by local laws.**

2. **Users shall not engage in non-work related activities that consume excessive bandwidth** or cause significant degradation of the performance of the network.

Since the network is a shared resource, users should exercise some basic etiquette when using the 3GPP network at a meeting. It is understood that high bandwidth applications such as downloading large files or video streaming might be required for business purposes, but delegates should be strongly discouraged in performing these activities for personal use. Downloading a movie or doing something in an interactive environment for personal use essentially wastes bandwidth that others need to make the meeting effective. The meeting chairman should remind end users that the network is a shared resource; the more one user grabs, the less there is for another. Email and its attachments already take up significant bandwidth (certain email programs are not very bandwidth efficient). In case of need the chair can ask the delegates to restrict IT usage to things that are essential for the meeting itself.

1. DON'T place your WiFi device in ad-hoc mode

2. DON'T set up a personal hotspot in the meeting room

3. DO try 802.11a if your WiFi device supports it

4. DON'T manually allocate an IP address

5. DON'T be a bandwidth hog by streaming video, playing online games, or downloading huge files

6. DON'T use packet probing software which clogs the local network (e.g., packet sniffers or port scanners)

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1.3 Other

In accordance with the Working Procedures it is reaffirmed that:
(i) compliance with all applicable antitrust and competition laws is required;

(ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and

(iii) the chairman will conduct the meeting with strict impartiality and in the interests of 3GPP

Note on (i): In case of question please contact your legal counsel.
Note on (ii): WIDs don't need to be submitted to the RAN2 meeting and will typically not be discussed here either.

2 General

THANK YOU to companies that request TDoc numbers and submit contributions early before deadline (really appreciated). Will start to refrain from treating late documents.

2.1 Approval of the agenda

A draft schedule for the week is provided as a separate document, distributed via the RAN2 email reflector and made available during the meeting week in the RAN2\Inbox\Chairmans_Notes folder.

R2-1813500 Agenda for RAN2#103bis Chairman agenda Late
=> Approved

2.2 Approval of the report of the previous meeting

R2-1813501 RAN2#103 Meeting Report MCC report Late
=> Approved

2.3 Reporting from other meetings

Summary of the main RAN2 impacts from RAN#81 (same as provided by email after the meeting):

1. **NR and LTE CRs**: All RAN2 CRs for NR and LTE Rel-15 WIs were approved, including those provided as late company contributions direct to RAN. Thank you to all those involved in providing final corrections to these CRs.
2. **Overheating for NR standalone**: RAN2 is requested to define within Rel-15 a mechanism to address UE Overheating for NR SA, with ENDC the mechanism to be used as a baseline. Endorsed way forward in RP-182074.
3. **NR-U Study Item scope clarifications**: i/ The higher layer aspects of 2 step RACH can continue to be studied within the NR-U SI but basic NR-U feasibility should be given a higher priority (endorsed way forward in RP-182126); ii/ With respect to mobility enhancements, the SI should identify NR-U-specific problems and issues. Solutions overlapping with the NR mobility WI will be handled in the NR mobility WI. Other solutions can be studied in the NR-U SI. (see conclusion captured for document RP-181830 in the RAN#81 report)
4. **Industrial IoT Study Item:** The objectives of the I-IoT SI underwent some significant clarification and tidy up, with the revised SI approved in RP-182090. In addition, this SI will now start in RAN2#103bis in October with the 0.5 TU to be used solely for the discussion and response to incoming LS S2-189051 from SA2. (Previously was due to start in RAN2#104)
5. **DC/CA enhancements Work Item**. The objectives were revised to include the work to complete Cross-Carrier Scheduling with Different Numerologies based on the endorsed way forward in RP-182014. Revised WID in RP-182076.

6. **RAN2 time budget:** Some adjustments made to the RAN2 time budget for Rel-16 were endorsed in RP-182042.
7. **RAN2 NR UE feature list:** The TBDs within the RAN2 NR UE feature list were all resolved as captured within RP-182121. (RAN1 and RAN4 UE feature lists were also progressed as captured in RP-182036 and RP-182171 respectively)
8. **5G indicator**. RAN discussed the 5G indicator proposals and send an LS to GSMA (RP-182125) to request them to continue the discussion and provide feedback to RAN#82. This topic will not be discussed in RAN2 again until after a conclusion has been reached by RAN plenary.

2.4 Others

Rapporteur changes

Spec	former rapporteur	proposed new rapporteur

Isolated impact analysis

Note that an isolated impact analysis is required for Rel-8 to Rel-15 CRs from Q3 2018 onwards.

Only corrections where there is a proven problem are allowed for frozen releases (Rel-8 to Rel-15).

RAN2 WG compendium

Latest version can always be found at ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Org/RAN2_Compendium/

Drafting rules

Note that specification drafting rules in TR 21.801 must be followed when drafting a CR and draft TS/TR.

Latest version can always be found at http://www.3gpp.org/ftp/specs/archive/21_series/21.801/

Time Budget

The time budget endorsed at RAN-81 is available in RP-182180

Offline discussion during RAN2 meeting

Chairs will allocate a number for offline discussions during the meeting. Create a folder starting with this number within inbox/drafts and use this to share any documents relating to the offline discussion (please use format "[Offline-nnn] ....", i.e. a 3 digit number). Also use this number in the title of any reflector emails relating to this offline discussion. (please use format "[RAN2#103bis Offline-nnn]....."). Do not share documents over the reflector during the meeting

3 Incoming liaisons

Note: LSs are moved to the respective agenda items if any.

Liaisons to RAN2

R2-1813505 LS on Joint ETSI - OSA Workshop: Open Implementations & Standardization (ETSI_CL18_3463; contact: ETSI) ETSI LS in To:RAN, RAN1, RAN2, RAN3, RAN4, RAN5, TSG CT, CT1, CT3, CT4, CT6, TSG SA, SA3, SA5, SA6
=> Noted

Liaisons to RAN2 with agreements to take into account (can be considered during discussions in the meeting)

R2-1813540 LS on UE feature list for LTE (R4-1811904; contact: NTT DOCOMO) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN, RAN1, RAN2 Cc:RAN3

R2-1813548 LS on LTE UE feature list (RP-182174; contact: NTT DOCOMO) RAN LS in Rel-15 To:RAN2, RAN4 Cc:RAN1
=> Both LS above are noted

Liaisons with RAN2 in CC

R2-1813549 LS to RAN5 on TM9 FGI bits 103 and 104 (RP-182175; contact: Huawei) RAN LS in Rel-15 To:RAN5 Cc:RAN2

R2-1813559 Reply LS on Data Analytics in SA WG2 NWDAF (S5-185404; contact: Huawei) SA5 LS in Rel-16 FS_eNA To:SA2 Cc:SA, RAN, RAN2, RAN3

=> Both LS above are noted

4 Void

5 Void

6 LTE: Rel-12 and earlier releases

Including corrections related to the following WIs:
(LTE-L23, leading WG: RAN2, REL-8, started: Sep. 06, closed: Dec. 08, WID: RP-080747)
(LTE_CA-Core, leading WG: RAN1, REL-10, started: Dec. 09, closed: June 11, WID: RP-100661)
(LTE_UL_MIMO-Core, leading WG: RAN1, REL-10, started: Dec.09, closed: June 11, WID: RP-100959)
(LTE_eDL_MIMO-Core, leading WG: RAN1, REL-10, started: Dec.09, closed: March 11, WID: RP-100196)
(LTE_Relay-Core, leading WG: RAN1, REL-10, started: Dec. 09, closed: June 11, WID: RP-110911)
(MBMS_LTE_enh-Core, leading WG: RAN2, REL-10, started: June 10, closed: March 11, WID: RP-101244)
(MDT_UMTSLTE-Core, leading WG: RAN2, REL-10, started: Dec. 09, closed: June 11, WID: RP-100360)
(eICIC_LTE-Core, leading WG: RAN1, REL-10, started: March 10, closed: June 11, WID: RP-100383)
(SONenh_LTE-Core, leading WG: RAN3, REL-10, started: March 10, closed: June 11, WID: RP-101004)
(LTE_CA_enh-Core, leading WG: RAN1, REL-11, started: March 11, closed: Mar.13, WID: RP-121999)
(MBMS_LTE_SC-Core, leading WG: RAN2, REL-11, started: June 10, closed: Sep.12, WID: RP-120258)
(LTE_eDDA-Core, leading WG: RAN2, REL-11, started: March 11, closed: Dec.12, WID: RP-120256)
(LCS_LTE-NBPS-Core, leading WG: RAN2, REL-11, started: March 09, closed: June. 13, WID: RP-131259)
(eICIC_enh_LTE-Core, leading WG: RAN1, REL-11, started: March 11, closed: Dec. 12, WID: RP-120860)
(SPIA_IDC_LTE-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Dec. 12, WID: RP-111355)
(COMP_LTE_DL-Core, leading WG: RAN1, REL-11, started: Sep.11, closed: Dec.12, WID: RP-111365)
(COMP_LTE_UL-Core, leading WG: RAN1, REL-11, started: Sep.11, closed: Dec.12, WID: RP-111365)
(LTE_TDD_add_subframe, leading WG: RAN1, REL-11, started: March 12; closed: Sep. 12, WID: RP-120384)
(FS_HetNet_eMOB_LTE, leading WG: RAN2, REL-11, started: March 11, closed: Sep. 12, WID: RP-110709)
(LTE_enh_dl_ctrl-Core, leading WG: RAN1, REL-11, started: Dec. 11, closed: Dec. 12, WID: RP-120871)
(LTE_SC_enh_dualC-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Dec.14, WID: RP-141797)
(LTE_SC_enh_L1-Core, leading WG: RAN1, REL-12, started: Dec.13, closed: Dec.14, WID: RP-132073)
(LTE_D2D_Prox-Core, leading WG: RAN1, REL-12, started: Mar.14, closed: Mar.15, WID: RP-142043)
(MBMS_LTE_OS-Core, leading WG: RAN2, REL-12, started: Sep.13, closed: Dec.14, WID: RP-140282)
(LTE_NAICS-Core, leading WG: RAN1, Rel-12, started: Mar 14, closed: Dec.14, WID: RP-140519)
(LC_MTC_LTE-Core, leading WG: RAN1, REL-12, started: Jun 13, closed: Dec 14, WID: RP-140522)
(GCSE_LTE-MBMS_CM-Core, leading WG: RAN3, started: Sep. 14, closed: Mar. 2015, WID: RP-141035)
(LTE_CA_TDD_FDD-Core, leading WG: RAN1, REL-12, started: Jun 13, closed: Jun 14, WID: RP-140465)
(LCS_BDS-LTE-Core, leading WG: RAN2, REL-12, started: Mar 13, closed: Dec 13, WID: RP-130416)
(LTE_eDL_MIMO_enh-Core, leading WG: RAN1, REL-12, started: Sep 12, closed: June 14, WID: RP-121416)
(HetNet_eMOB_LTE-Core, leading WG: RAN2, REL-12, started: Dec.12, , closed: Sep 14, WID: RP-122007)
(Cov_Enh_LTE-Core, leading WG: RAN1, REL-12, started: Jun.13, closed: Jun.14, WID: RP-130833)
(LTE_TDD_eIMTA-Core, leading WG: RAN1, REL-12, started: Dec 12, closed: Jun.14, WID: RP-121772)
(SCM_LTE-Core, leading WG: RAN2, REL-12, started: Mar.14, closed: Sep.14, WID: RP-140434)

Including any LTE corrections related to the following joint UMTS/LTE WIs:
(SIMTC-RAN_OC-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Sep. 12, WID: RP-111373)
(eMDT_UMTSLTE-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Dec.12, WID: RP-121204)
(SONenh2_LTE_UTRA-Core, leading WG: RAN3, REL-11, started: Sep.11, closed: Dec.12, WID: RP-120314)

(rSRVCC-GERAN, leading WG: GERAN2, REL-11, started: Sep.11, closed: Nov.13, WID: GP-111290)
(EHNB_enh3-Core, leading WG: RAN3, REL-12, started: Sep.12, closed: Dec 13, WID: RP-130741)
(MTCe_RAN-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Sep.14, WID: RP-132053)
(UTRA_LTE_WLAN_interw-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Sep.14, WID: RP-132101)
(LTE_UTRA_IncMon-Core, leading: RAN4, REL-12, started: Dec.13, closed: Dec. 14, WID: RP-132061)
Documents in this agenda item will be handled in a break out session

R2-1814047 CR for T312 on LTE HetNet mobility Intel Corporation CR Rel-12 36.331 12.17.0 3503 1 F HetNet_eMOB_LTE-Core R2-1811727
- Ericsson thinks that the correction makes sense but they are concerned that we may have UEs in the field with two different behaviours, so they would like to have a UE capability.
- Qualcomm wonders why we need UE capability as it is not a deployed feature yet.
- Ericsson thinks that there is some inter-operability, some UEs would trigger T312 and some wouldn't and this would result in different UE behaviours.
- Nokia thinks that a UE capability is an overkill.

=> We will start from Rel-15 with the magic sentence
=> The CR is not pursued

R2-1814048 CR for T312 on LTE HetNet mobility Intel Corporation CR Rel-13 36.331 13.11.0 3504 1 A HetNet_eMOB_LTE-Core R2-1811728
=> The CR is not pursued

R2-1814049 CR for T312 on LTE HetNet mobility Intel Corporation CR Rel-14 36.331 14.8.0 3505 1 A HetNet_eMOB_LTE-Core R2-1811729
=> The CR is not pursued

R2-1814050 CR for T312 on LTE HetNet mobility Intel Corporation CR Rel-15 36.331 15.3.0 3506 1 A HetNet_eMOB_LTE-Core R2-1811730
=> Update the cover page with magic sentence with early impleementabilty from Rel-12
=> The CR is revised in R2-1815628

R2-1815628 CR for T312 on LTE HetNet mobility Intel Corporation CR Rel-15 36.331 15.3.0 3506 1 A HetNet_eMOB_LTE-Core R2-1811730
=> Magic sentence should in the summary of change
=> The CR is in principle agreed in R2-1815654 with the change above

R2-1815489 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-12 36.304 12.8.0 0754 - B eMDT_UMTSLTE-Core
=> Not treated

R2-1815490 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-12 36.331 12.17.0 3668 - B eMDT_UMTSLTE-Core
=> Nokia is not a co-signer because they didn't have time review
- Qualcomm doesn't think that we should do this
- Intel also thinks that there is some backward compatibility issues
- Ericsson indicates that the Rel-15 CR was not implemented.

=> LG should check what happened
=> The CR is not pursued

R2-1815491 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-12 37.320 12.2.0 0073 - B eMDT_UMTSLTE-Core
=> The CR is not treated

Not treated:

R2-1815492 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-13 36.304 13.8.0 0755 - A eMDT_UMTSLTE-Core

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R2-1815493 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3669 - A eMDT_UMTSLTE-Core

R2-1815494 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-13 37.320 13.1.0 0074 - A eMDT_UMTSLTE-Core

R2-1815495 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-14 36.304 14.7.0 0756 - A eMDT_UMTSLTE-Core

R2-1815496 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3670 - A eMDT_UMTSLTE-Core

R2-1815497 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-14 37.320 14.0.0 0075 - A eMDT_UMTSLTE-Core

7 LTE: Rel-13

7.1 WI: Further LTE Physical Layer Enhancements for MTC

(LTE_MTCe2_L1-Core, leading WG: RAN1, REL-13; started: Sep. 14, closed: Mar. 16, WID: RP-150492)

Documents in this agenda item will be handled in a break out session

R2-1815079 Correction for BL UEs and UEs in CE in RRC_CONNECTED Ericsson CR Rel-13 36.331 13.11.0 3645 - F LTE_MTCe2_L1-Core

- Huawei agrees with the intention, but explains that this intentional as the behaviour is captured in 5.3.2.1.
- QC thinks that this is not essential for Rel-13 or Rel-14, but it can be done in Rel-15 or even later considering that such changes may be required.
- LG supports the CR.
- Intel thinks the CR can be agreeable, but it is also OK to capture the understanding in RAN2 meeting minutes.
- Blackberry suggests capturing the intended behaviour for Rel-13 and Rel-14 on the cover page for the Rel-15 CR.
- Huawei thinks if Rel-15 CR is to be agreed, it would be good to check other occasions to make sure that it is consistently captured in specification.

=> Rel-15 CR will be discussed for agreement in the next meeting and other occasions in the spec are to be checked for consistency.

=> Even though the CR would be for Rel-15, this is just a clarification as there is no change for the behaviour, i.e. the behaviour is the same in Rel-13 and Rel-14.

R2-1815080 Correction for BL UEs and UEs in CE in RRC_CONNECTED Ericsson CR Rel-14 36.331 14.8.0 3646 - A LTE_MTCe2_L1-Core

=> Not pursued.

R2-1815082 Correction for BL UEs and UEs in CE in RRC_CONNECTED Ericsson CR Rel-15 36.331 15.3.0 3647 - A LTE_MTCe2_L1-Core

=> postponed to the next meeting.

R2-1815084 Paging with fractional nB value Sequans Communications discussion Rel-13 LTE_MTCe2_L1-Core

- MediaTek wonders such configuration actually happens. Sequans explains that they have observed such configuration.
- Intel thinks that the eNB should avoid such invalid configurations.
- Ericsson states that UE may request a DRX cycle from the CN which would not work for RAN. This would mean that the UE may avoid such configuration by requesting one of the DRX cycles that would work.

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=> RAN2 acknowledges that there may be some configurations that would not work as intended and lead to ambiguous UE behaviour. RAN2 intends to address this issue and continue the discussion in the next meeting.
=> Default T and T/nB should be configured such that 1 =< nB
=> Further discussion is required for the UE specific DRX cycle

7.2 WI: Narrowband IOT

(NB_IOT-Core; leading WG: RAN1; started: Sep. 15; target: Jun. 16; WID: RP-152284)
Documents in this agenda item will be handled in a break out session

R2-1813894 Discussion on the value of HARQ-ACK num repetitions Huawei, HiSilicon discussion Rel-13 NB_IOT-Core

- NEC think it's too late to change to mandatory for NW, could improve description. DoCoMo, LG agree.
- Mediatek don't think this has UE impact
- QC think the HW proposal is reasonable, eNB can include the field. If we go with the other suggestion then UE has to use ack-nack num repetitions used in Msg4.
- Ericsson think NW should configure the correct value, and reconfigure in RRC connected, the problem might happen only when CE level changes.
- HW think for re-establishment we need to have a value.
- HW think that the field only has to be mandatory provided in RRC Connection Setup/resume and Re-establishment cases, otherwise need ON is OK.
- Sequans wonder in reconfiguration case what happens if field is absent

Offline discussion #300 (Huawei) – discuss the problems raised, and decide if/how to make a change.

After offline:

- Huawei report that 2 companies prefer to mandate NW, 3 don't want to update NW. There is an interoperability that we need to solve but can't have Rel-13 CR changing UE behaviour.
- Huawei will bring a CR to the next meeting.
- Softbank think we should first decide whether the specification is clear, and they think it is. Huawei don't agree that it is clear. Softbank think the RAN1 specification clarifies. Huawei agree RAN1 spec is clear.
- ZTE, Nokia would like to check further. NEC think we need to check if something is realy broken in the spec.
- QC think there is a potential issue, and the question is whether to live with it or fix something in the spec.

⇒ **Postponed to next meeting**

R2-1814776 Correction on interFreqNeighCellList Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3635 - F NB_IOT-Core

- HW support.
- Ericsson wonder if there is a problem if NW includes for Rel-15. Nokia have different CR for Rel-15.

Offline discussion #301 (Nokia) – discuss CR considering Rel-15 impact

⇒ **Revised in R2-1815718**

R2-1815718 Correction on interFreqNeighCellList Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3635 1 F NB_IOT-Core R2-1814776

- ZTE, DoCoMo don't think the CR is needed. This has impact on NW and may be beneficial for some UE..Huawei think it clearly can't be used by the UE.
- Qualcomm think the other way would be to say the UE does not use the IE. Huawei don't think we can add a UE requirement.
- DoCoMo think some UE may ignore the IE and others can use the information.
- Qualcomm wonders what the UE can do with this information. UE determines the neighbour cells using the frequency and then detects PCIs. Huawei think this is optional for NW to send

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so UE has to work without the IE, but not a big problem if it is broadcast because it's not used.
- NEC think we could just clarify our understanding that UE doesn't do anything with the IE.
- Nokia say the intention of the CR is that UE can't use this, the CR is just a recommendation to NW.
- Ericsson think it might be better to postpone. Qualcomm agree, this should not have an impact on cell reselection but UE vendors can check.

⇒ **RAN2 understands that there is no defined UE behaviour for using interFreqNeighCellList in SIB5-NB**

⇒ **CR is postponed to next meeting**

R2-1814817 Correction on interFreqNeighCellList 36.331 14.8.0 3636 - A Nokia, Nokia Shanghai Bell NB_IOT-Core CR Rel-14

⇒ **Revised in R2-1815719**

R2-1815719 Correction on interFreqNeighCellList 36.331 14.8.0 3636 1 A Nokia, Nokia Shanghai Bell NB_IOT-Core R2-1814817 CR Rel-14

⇒ **CR is postponed to next meeting**

R2-1814818 Correction on interFreqNeighCellList 36.331 15.3.0 3637 - F Nokia, Nokia Shanghai Bell NB_IOT-Core CR Rel-15

⇒ **Revised in R2-1815720**

R2-1815720 Correction on interFreqNeighCellList 36.331 15.3.0 3637 1 F Nokia, Nokia Shanghai Bell NB_IOT-Core R2-1814818 CR Rel-15

⇒ **CR is postponed to next meeting**

7.3 Other LTE Rel-13 WIs

Including corrections related to the following WIs:
(LTE_LAA-Core, leading WG: RAN1, REL-13; started: June 15, closed: Dec. 15, WID: RP-151045)
(LTE_CA_enh_b5C-Core, leading WG: RAN1, REL-13; started: Dec. 14, closed: Dec. 15, WID: RP-151984)
(LTE_SC_PTM-Core, leading WG: RAN2, REL-13; started: June 15, closed: Dec. 15, WID: RP-151110)
(LTE_eD2D_Prox-Core, leading WG: RAN2, REL-13; started: Dec. 14, closed: Mar. 16, WID: RP-150441)
(LTE_MC_load-Core, leading WG: RAN2, started: Mar. 15, closed: Dec. 15, WID: RP-152181)
(LTE_dualC_enh-Core, leading WG: RAN2, started: Mar. 15, closed: Dec. 15, WID: RP-151739)
(LTE_extDRX-Core; leading WG: RAN2; started: Mar. 15; closed: Mar. 16; WID: RP-150493)
(LTE_EBF_FDMIMO-Core; leading WG: RAN1; started: June. 15; closed: Dec. 15; WID: RP-151085)
(LTE_eMDT2-Core; leading WG: RAN2; started: Sep. 15; closed: Dec 15; WID: RP-151611)
(UTRA_LTE_iPos_enh-Core; leading WG: RAN2; started: Sep. 15; closed: Dec 15; WID: RP-152251)
(LTE_WLAN_radio-Core, leading WG: RAN2, started: Mar. 15, closed: Mar. 16, WID: RP-152213)
(LTE_WLAN_radio_legacy-Core; leading WG: RAN2; started: Sep. 15; closed: Mar 15; WID: RP-151615)

Including any LTE corrections related to the following joint UMTS/LTE WIs:
(ACDC-RAN-Core; leading WG: RAN2; REL-13; started: Mar. 15; closed: Dec. 15; RP-150662)
Documents in this agenda item will be handled in a break out session

R2-1813551 Regarding LTE LAA channel combinations for 5GHz (RP-182177; contact: Charter Communications) RAN LS in Rel-13 LTE_LAA To:RAN1, RAN2, RAN4
=> Noted

R2-1813552 Reply LS to IEEE 802.11 working group in relation to certain channel combinations for LAA in 5GHz (RP-182178; contact: Charter Communications) RAN LS in Rel-13 To:IEEE 802.11 WLAN WG Cc:RAN1, RAN2, RAN4
=> Noted

R2-1813535 LS to RAN2 on removing a sentence related to restriction for intra-band LAA aggregation (R4-1811562; contact: Ericsson) RAN4 LS in Rel-13 LTE_LAA To:RAN2 Cc:RAN1

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=> Noted

R2-1813761 Corrections to eCA configurations Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3561 - F LTE_CA_enh_b5C-Core
- Qualcomm thinks that this is a needed change.
- Intel wants to confirm that there is no IOT issues. Qualcomm explains that there is not
=> Companies should be aware that this means previous versions of the specifications are not correct
=> The CR is postponed to next meeting so companies can review further

Not treated

R2-1813762 Corrections to eCA configurations Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3562 - A LTE_CA_enh_b5C-Core

R2-1813763 Corrections to eCA configurations Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3563 - A LTE_CA_enh_b5C-Core

R2-1813764 Clarification to UE capabilities for CA Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3564 - F LTE_CA_enh_b5C-Core
- Intel and Qualcomm would like to further check
=> The CR is postponed

Not treated

R2-1813765 Clarification to UE capabilities for CA Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3565 - A LTE_CA_enh_b5C-Core

R2-1813766 Clarification to UE capabilities for CA Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3566 - A LTE_CA_enh_b5C-Core

R2-1813917 Clarification to CA fallback band combinations Nokia, Nokia Shanghai Bell CR Rel-13 36.306 13.9.0 1649 - F LTE_CA_enh_b5C-Core
- Intel thinks that the first change is acceptable, but not sure about the second one.
- Nokia just wanted to clarify it in the spec. Intel would prefer to not have a change if there is not critical issue
- Qualcomm thinks that the second change is needed because if we don't have it then according to RRC it may be interpreted as they are independent. Nokia agrees that if we don't have it we have two different UE behaviours. Intel thinks if that is the case then there is an inter-operability issue with the CR. Ericsson also thinks it is needed.
=> The CR cover page needs to be updated to indicate inter-operability
=> This part of the note is removed "eNB may infer the radio capabilities for the fallback band combination from any of the parent band combination(s)."
=> The CR is revised in R2-1815629

R2-1815629 Clarification to CA fallback band combinations Nokia, Nokia Shanghai Bell CR Rel-13 36.306 13.9.0 1649 - F LTE_CA_enh_b5C-Core
=> Remove track changes in cover page and changes on changes
=> The CR is in principle agreed in R2-1815868 with the change above

Not treated

R2-1813918 Clarification to CA fallback band combinations Nokia, Nokia Shanghai Bell CR Rel-14 36.306 14.8.0 1650 - A LTE_CA_enh_b5C-Core

R2-1813919 Clarification to CA fallback band combinations Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1651 - A LTE_CA_enh_b5C-Core

R2-1814418 n1PUCCH-AN-CS-ListP1-r13 asn1 error correction Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3615 - F LTE_LAA-Core, LTE_CA_enh_b5C-Core, TEI13
- Intel thinks that it is inefficient but not broken.
=> The CR is postponed

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8 LTE Rel-14

8.1 WI: LTE based V2X

(LTE_SL_V2V-Core; leading WG: RAN1; started: Dec. 15; closed: Sept 16; WID: RP-161603)
(LTE_V2X-Core, leading WG: RAN1; REL-14; started: June 16; closed: Mar. 17; WID: RP-162519)
Documents in this agenda item will be handled in a break out session

R2-1813569 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-14 36.331 14.8.0 3543 - F LTE_V2X-Core

R2-1813570 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-15 36.331 15.3.0 3544 - A LTE_V2X-Core

- [Chair]: Cover-page needs to be updated to include what inter-operability issue is foreseen. Also note actual change is not about purpose-v1430 (it is about purpose-r15)?
- [Huawei]: We may need to also update UE procedure part. [Ericsson]: Can we configure both legacy measurement and SL measurements?

⇨ Intention is agreeable, but detailed wording will be discussed offline.

⇨ Cover-page needs to be updated.

[Offline Disc#701]: Revised in R2-1815661 for Rel-14 and R2-1815662 for Rel-15

R2-1815661 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-14 36.331 14.8.0 3543 1 F LTE_V2X-Core

R2-1815662 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-15 36.331 15.3.0 3544 1 A LTE_V2X-Core

R2-1815686 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-14 36.331 14.8.0 3543 1 F LTE_V2X-Core

R2-1815687 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-15 36.331 15.3.0 3544 1 F LTE_V2X-Core

⇨ R2-1815686 and R2-1815687 are agreed in principle.

R2-1813571 Correction for SPS configuration OPPO CR Rel-14 36.331 14.8.0 3545 - F LTE_V2X-Core

R2-1813572 Correction for SPS configuration OPPO CR Rel-15 36.331 15.3.0 3546 - A LTE_V2X-Core

- [Chair]: Cover-page needs to be updated to include what inter-operability issue is foreseen.
- [Huawei]: CR seems not so essential considering it has been already fixed. [OPPO]: There is some misalignment between 36.331 and 36.302. [Ericsson]: Agree with the need of some correction. [LG]: Support the need of CR. [Nokia]: Nothing is broken and agree with Huawei.

⇨ Noted

8.2 WI: Enhancements of NB-IoT

(NB_IOTenh-Core; leading WG: RAN1; REL-14; started: June 16; closed: Jun. 17; WID: RP-171060)
Note: SC-PTM for eNB-IoT is handled under 8.12.1
Documents in this agenda item will be handled in a break out session

R2-1813895 ASN.1 restructuring of NPRACH resource configuration Huawei, HiSilicon CR Rel-14 36.331 14.8.0 3494 1 F NB_IOTenh-Core R2-1811532

- Update the note reference

⇒ **Revised in R2-1815711**

R2-1815711 ASN.1 restructuring of NPRACH resource configuration Huawei, HiSilicon, BlackBerry UK Ltd CR Rel-14 36.331 14.8.0 3494 2 F NB_IOTenh-Core R2-1813895

- Ericsson, Qualcomm think the title could be alarming.

⇒ **Change title to "Editorial restructuring of NPRACH resource configuration"**

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⇒ **With the above change the CR is agreed in principle**

R2-1813896 ASN.1 restructuring of NPRACH resource configuration Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3495 1 A NB_IOTenh-Core R2-1811533
- Update the note reference

⇒ **Revised in R2-1815712**

R2-1815712 ASN.1 restructuring of NPRACH resource configuration Huawei, HiSilicon, BlackBerry UK Ltd CR Rel-15 36.331 15.3.0 3495 2 A NB_IOTenh-Core R2-1813896
- Intel wonder whether it is really necessary to move.

⇒ **Change title to "Editorial restructuring of NPRACH resource configuration"**

⇒ **With the above change the CR is agreed in principle**

R2-1815266 NB-IoT packet disorder problem for CP RRC re-establishment CMCC discussion Rel-14
- Mediatek think that it may be possible to resolve at NAS layer, so we should probably discuss in/LS CT1
- LG don't see an issue, UE NAS implementation can already handle it. CMCC think UE may receive duplicate using different NAS count
- HW think there may be duplication, but maybe not packet loss and the same for UP solution + duplication is not a bit problem.
- QC think there can be duplication or loss, but application layer should handle this. QC don't think AS solution is needed, and think companies should take contributions to CT1 if they want to discuss there.
- Ericsson have similar view to QC, and don't think there is a big problem.
- ZTE think there may be an issue to solve, it can be handled at upper layer but at the cost of air interface waste.
- Mediatek think the scenario shown by CMCC is valid, and think that we can acknowledge the issue now but need to consider NAS solution before anything in AS.
- Nokia agree there is an issue to fix, but the solution proposal is mainly NAS.
- CMCC propose to introduce in RRC message because this may occur before Msg5
- Chair thinks that in general it seems a CT1 issue, so recommends the issue is raised there.

⇒ **noted**

8.3 WI: Further Enhanced MTC for LTE

(LTE_feMTC-Core; leading WG: RAN1; REL-14; started: June 16; closed: Jun. 17; WID: RP-170532)
Documents in this agenda item will be handled in a break out session

8.4 Other LTE Rel-14 WIs

(LTE_eLAA-Core; leading WG: RAN1; REL-14; started: Dec. 15; closed: Mar. 17; WID:RP-162229)
(LTE_WLAN_aggr-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Mar. 17; WID: RP-160923)
(LTE_eMob-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Mar. 17; WID:RP-162503)
(UTRA_LTE_iPos_enh2-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Dec. 16; WID: RP-162026)
(LTE_LATRED_L2-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Sep. 16; WID: RP-160667)
(MBMS_LTE_enh2-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Sep. 17; WID:RP-162231)
(LTE_SRS_switch; leading WG: RAN1; REL-14; started: Mar.16: closed: Dec. 16; WID: RP-160935)
(LTE_meas_gap_enh-Core; leading WG: RAN4; REL-14; started: Mar. 16; closed: Jun. 17; WID: RP-160912)
(LTE_high_speed-Core; leading WG: RAN4; REL-14; started: Dec. 15. 16; closed: Dec. 16; WID: RP-160172)
(LTE_VoLTE_ViLTE_enh; leading WG: RAN2; REL-14; started: Sep. 16; closed: Mar. 17: WID: RP-161856)
(LTE_UE_cat_1Rx-Core; leading WG: RAN4; REL-14; started: Sep. 16; closed: Jun. 17: WID: RP-171149)
(LTE_UL_CAP_enh-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Mar. 17: WID: RP-162488)
(LTE_eFD_MIMO-Core; leading WG: RAN1; REL-14; started: Mar. 2016; closed: Mar. 17: WID: RP-160623)
(LTE_MUST-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Dec. 16: WID: RP-161019)
(eDECOR-UTRA_LTE-Core; leading WG: RAN3; REL-14; started: Dec. 16; closed: Mar. 17: WID: RP-162543)
Documents in this agenda item will be handled in a break out session

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R2-1813528 Reply LS on Issues with AS Release Assistance Indicator (R3-185106; contact: Huawei) RAN3 LS in Rel-14 TEI14 To:SA2, RAN2
=> The LS is noted

R2-1813649 Correction on maximum symbols for PUSCH transmission in UpPTS Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3556 - F LTE_UL_CAP_enh-Core
=> The CR is in principle agreed with the typo “iss” and add “and *sym4”* fixed in R2-1815630

R2-1813650 Correction on maximum symbols for PUSCH transmission in UpPTS Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3557 - A LTE_UL_CAP_enh-Core
=> The CR is in principle agreed with the typo “iss” and add “and *sym4”* fixed in R2-1815631

R2-1813667 LPP Barometric Sensor AD Correction Polaris Wirelessdiscussion Rel-14 36.355 UTRA_LTE_iPos_enh2-Core
- Ericsson thinks it is a bit late to bring this up and all attributes were discussed at the time. This was not deemed as needed at the time.
- Ericsson thinks that if this is needed it can be discussed in Rel-16.
- Polaris thinks that this is needed for regulatory requirements
- Qualcomm thinks that we would need to add a capability bit to make it backward compatible.
- Ericsson is still not convinced on the need.

=> The CR is postponed to understand the need for the CR, the release to introduce in, and make the change in a backward compatible way.

R2-1813668 Sensor Assistance Data Elements Correction Polaris WirelessCR Rel-14 36.355 14.7.0 0227 - F UTRA_LTE_iPos_enh2-Core
=> Not treated

R2-1814874 TDD uplink-downlink configuration for OTDOA Qualcomm Incorporated discussion R2-1811429
- Ericsson is concerned that there may be a RAN3 impact. Qualcomm indicates that there is a RAN3 CR pending. Ericsson is fine with the CR

=> Noted

R2-1814875 Addition of TDD UL/DL configuration to OTDOA assistance data Qualcomm IncorporatedCR Rel-14 36.355 14.7.0 0212 1 F TEI14 R2-1811430
=> We will do the change from Rel-15
=> Updated CRs will be treated next meeting
=> The CR is not pursued

R2-1814876 Addition of TDD UL/DL configuration to OTDOA assistance data Qualcomm IncorporatedCR Rel-15 36.355 15.1.0 0213 1 A TEI14 R2-1811431
=> Category changed to F
=> The CR is in principle agreed in R2-1815869 with the change above

R2-1815225 Discussion on value range for timers and counters related to radio link failure Huawei, HiSilicon discussion LTE_VoLTE_ViLTE_enh R2-1811932
- Intel doesn’t thinks that this is needed in Rel-14 and are not sure about the proposed changes in Rel-15 as well. Nokia shares the concerns. If this is a problem we cannot just extend to the UMTS values. Nokia further thinks that if this is a problem from their point of view they would need to reduce the values which is quite different from the proposed solution. Huawei explains that there are two different strategies on how to handle the problem.
- Nokia asks if we would need to introduce UE capability

=> The discussion is postponed
=> Noted

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R2-1815226 Extension of value range for timers and counters related to radio link failure Huawei, HiSilicon, Ericsson CR Rel-14 36.331 14.8.0 3511 1 F LTE_VoLTE_ViLTE_enh
R2-1811933
=> Not treated

R2-1815227 Extension of value range for timers and counters related to radio link failure Huawei, HiSilicon, Ericsson CR Rel-15 36.331 15.3.0 3512 1 A LTE_VoLTE_ViLTE_enh
R2-1811934
=> Not treated

R2-1815268 CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0 CMCC CR
Rel-14 36.321 14.8.0 1377 - D LTE_VoLTE_ViLTE_enh
=> change restriction to "recommendation"
=> Change category to F
=> update WI code to "LTE_VoLTE_ViLTE_enh"
=> The CR is in principle agreed in R2-1815634 with the changes above
=> Shadow CR is expected to be seen in the next meeting

R2-1815554 CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation ZTE Corporation, Sanechips CR Rel-14 36.331 14.8.0 3672 F TEI14
=> The CR is in principle agreed

R2-1815555 CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation
=> The CR is in principle agreed with the WI code of inactive added in R2-1815632

9 LTE Rel-15

9.1 Void

9.2 WI: Shortened TTI and processing time for LTE

(LTE_STTIandPT-core; leading WG: RAN1; REL-15; started: June 16; closed: Sep. 18; WID: RP-171468)

Documents in this agenda item will be handled in a break out session

R2-1813508 LS on sTTI (R1-1809687; contact: Ericsson) RAN1 LS in Rel-15 LTE_sTTIandPT-Core
To:RAN2
=> Noted

R2-1815016 Various sTTI corrections Intel Corporation CR Rel-15 36.331 15.3.0 3643 -
F LTE_sTTIandPT Late
=> Include impact analysis
=> Remove FGI bits from description and typo
=> The CR is revised in R2-1815624

R2-1815624 Various sTTI corrections Intel Corporation CR Rel-15 36.331 15.3.0 3643 -
F LTE_sTTIandPT Late
=> The CR is in principle agreed

R2-1815017 Various sTTI corrections Intel Corporation CR Rel-15 36.306 15.2.0 1659 -
F LTE_sTTIandPT Late
=> Include impact analysis
=> Remove FGI bits from description and typo
=> The CR is revised in R2-1815625

R2-1815625 Various sTTI corrections Intel Corporation CR Rel-15 36.306 15.2.0 1659 -
F LTE_sTTIandPT Late
=> The CR is in principle agreed

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R2-1815292 SPS for TDD sTTI LTE_sTTIandPT Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1378 - F
=> The CR is not pursued

R2-1815293 SPS for TDD sTTI LTE_sTTIandPT Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3660 - F
- Ericsson and Intel think that this is functionality introduced late and we should just state that we don't support it for TDD.
- Huawei thinks that we need to support for TDD
=> we will capture that SPS for sTTI is not supported for TDD
=> The CR is revised in R2-1815621

R2-1815621 SPS for TDD sTTI LTE_sTTIandPT Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3660 - F
=> The CR is in principle agreed

R2-1815294 skipUplinkTxSPS for short TTI option 1 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3661 - C LTE_sTTIandPT
=>update to "or when semiPersistSchedIntervalUL-STTI is configured "
=> The CR is revised in R2-1815622

R2-1815622 skipUplinkTxSPS for short TTI option 1 Huawei, HiSilicon, ERicsson CR Rel-15 36.331 15.3.0 3661 - C LTE_sTTIandPT
=> change from "in" to "for"
=> change category to F
=> The CR is in principle agreed in R2-1815655 with the above changes

R2-1815295 skipUplinkTxSPS for short TTI option 2 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3662 - C LTE_sTTIandPT
=> The CR is not pursued

R2-1815296 correction on power control Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3663 - F LTE_sTTIandPT
- Nokia thinks that this is not backward compatible
- Ericsson thinks that we didn't add it since the beginning because we didn't think that we would use it after coming out of RACH, but now it may be needed because there is some static parameter that cannot be provided any other way.
- Intel thinks that the network can give you the delta offset after, so it can still work. Ericsson also thought that but now they have confirmed that there is no other possibility.
=> The change needs to be backward compatible
=> The CR is revised in R2-1815623

R2-1815623 correction on power control Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3663 - F LTE_sTTIandPT
=> The CR is in principle agreed

R2-1815297 discussion on skipUplinkTxSPS for short TTI Huawei, HiSilicon discussion Rel-15 LTE_sTTIandPT
=> Not treated

R2-1815298 discussion on SPS for TDD sTTI LTE_sTTIandPT Huawei, HiSilicon discussion Rel-15
=> Not treated

R2-1815335 CR on 36331 Correction for sTTI LG Electronics Mobile Research CR Rel-15 36.331 15.3.0 3666 - F LTE_sTTIandPT-Core
=> The parameter should be added in a backward compatible way
=> The CR is revised in R2-1815626

R2-1815626 CR on 36331 Correction for sTTI LG Electronics Mobile Research CR Rel-15 36.331 15.3.0 3666 - F LTE_sTTIandPT-Core
=> The CR is in principle agreed

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9.3 Void

9.4 Void

9.5 Further video enhancements for LTE

(LTE_ViLTE_enh2-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181746)
Documents in this agenda item will be handled in a break out session

9.6 QoE Measurement Collection for streaming services in E-UTRAN

(LTE_QMC_Streaming; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep 18: WID: RP-181640)
Documents in this agenda item will be handled in a break out session

R2-1815197 Correction on SRB4 for QoE meamsurement collection Huawei, HiSilicon, Intel Corporation CR Rel-15 36.331 15.3.0 3652 - F LTE_QMC_Streaming-Core
- Ericsson think the description is not needed
- Qualcomm support the change.
=> CR is in principle agreed

9.7 LTE connectivity to 5G-CN

(LTE_5GCN_connect-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181680)
Documents in this agenda item will be handled in a break out session

9.7.1 Organisational

Including incoming LSs

R2-1813974 Miscellaneous corrections on E-UTRA connected to 5GCN Intel Corporation CR Rel-15 36.331 15.3.0 3586 - F LTE_5GCN_connect-Core
=> CR is agreed in principle

9.7.2 Aspects independent from NR/5GC

R2-1813802 Correction for E-UTRA connected to 5GC Stage-2 OPPO CR Rel-15 36.300 15.3.0 1194 - F LTE_5GCN_connect
=> Correct the reason of change, e.g MSG3 doesn't have PDCP
=> CR is agreed in principle in R2-1815970

R2-1813810 Correction for E-UTRA connected to 5GC Procedures OPPO CR Rel-15 36.331 15.3.0 3574 - F LTE_5GCN_connect
=> Only the last change is agreed and other changes are not agreed.
=> Revised in R2-1815786 (OPPO) to reflect the agreement and is agreed in principle.

R2-1813869 Correction to DRB release Google Inc. CR Rel-15 36.331 15.3.0 3576 - F NR_newRAT-Core
=> The content is agreed and R2-1814680 should also be merged into this CR.
CB on Friday: => CR is revised in R2-1815788 (Offline#283, Google)
=> R2-1815788 is revised in R2-1816008

R2-1814257 Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-UTRA/5GC or E-UTRAN Qualcomm India Pvt Ltd CR Rel-15 36.331 15.3.0 3601 - F LTE_5GCN_connect-Core
CB on Thursday:=> Offline discussion #287 (Qualcomm, the CR is revised in R2-1815787)

R2-1815787 Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-UTRA/5GC or E-UTRAN Qualcomm India Pvt Ltd CR Rel-15 36.331 15.3.0 3601 1 F LTE_5GCN_connect-Core
=> Agreed in principle

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R2-1814680 Bearer handling in E-UTRA connected to 5GC Ericsson CR Rel-15 36.331 15.3.0 3624 - F NR_newRAT-Core
=> Merged into R2-1815788.

R2-1814296 CR on ng-5g-s-tmsi-bits Handling During the Reception of RRCSetup for 36.331 Samsung Electronics CR Rel-15 36.331 15.3.0 3604 - F NR_newRAT-Core

R2-1815400 Corrections for intra E-UTRA/5GC handover in TS36.331 Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

R2-1814873 Reducing the impact of option 5 on EPC Service Request Procedure and the need to restore Core Network Overload Protection Vodafone España SA discussion
=> Let us come back next meeting with perfect solutions and decide what can we do for this or future releases.

9.7.3 Inactive state

R2-1813975 Open issues on E-UTRA connected to 5GC for INACTIVE Intel Corporation discussion Rel-15 LTE_5GCN_connect-Core

Agreements:
1 T380 is stopped upon reception of RRCConnectionResume, RRCConnectionSetup or upon reception of RRCConnectionRelease Message.
2 The handling of T302 and UE context are aligned with NR agreements

R2-1813977 TS36.331 CR on Open issues on E-UTRA connected to 5GC for INACTIVE Intel Corporation CR Rel-15 36.331 15.3.0 3588 - F LTE_5GCN_connect-Core
CB on Thursday: Revised in R2-1815789 to reflect the agreements (Offline 266, Intel)

R2-1815789 TS36.331 CR on Open issues on E-UTRA connected to 5GC for INACTIVE Intel Corporation CR Rel-15 36.331 15.3.0 3588 - F LTE_5GCN_connect-Core
=> Agreed in principle

✉ **[103#42][LTE] Capture NR agreements (Intel)**
Capture the agreements made in NR session which also applied for eLTE
Intended outcome: 36.331 CR submitted to next meeting
Deadline: Thursday 2018-11-01

R2-1813583 Clarification on RRC state transition Google Inc. CR Rel-15 36.331 15.3.0 3551 - F LTE_5GCN_connect-Core
=> Change "> if the UE is leaving RRC_INACTIVE;" to "> if the UE is leaving RRC_INACTIVE:"
=> Remove the last change
=> With these changes the CR is agreed in principle in R2-1815971.

R2-1814359 Correction to resume/suspand description (RIL Z101, Z102, Z108, Z110) ZTE Corporation CR Rel-15 36.331 15.3.0 3611 - F LTE_5GCN_connect-Core Late
=> Withdraw

R2-1814373 Correction to resume/suspand description (RIL Z101, Z102, Z108, Z110) ZTE Corporation CR Rel-15 36.331 15.3.0 3612 - F LTE_5GCN_connect-Core
=> Not pursued

R2-1815210 Corrections to TS 36.304 for E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 36.304 15.1.0 0744 2 F LTE_5GCN_connect-Core R2-1813300
=> The last change is not agreed
=> with this change, CR is in principle agreed in R2-1815972. If NR has different conclusion, it can be revisit.

R2-1815211 Discussion on RRC_Inactive state for E-UTRA connected to 5GC Huawei, HiSilicon discussion Rel-15 LTE_5GCN_connect-Core

Agreement:

A agree adding the following descriptions into RRC_INACTIVE in TS 36.331:
- The UE stores the AS context

R2-1815462 Corrections on Qoffsettemp for eLTE in 36.304 LG Electronics Deutschland CR Rel-15 36.304 15.1.0 0752 - F LTE_5GCN_connect-Core
=> Not pursued

R2-1815485 Corrections on Qoffsettemp for LTE in 36.304 LG Electronics Deutschland CR Rel-14 36.304 14.7.0 0745 1 F LTE_5GCN_connect-Core R2-1812890
=> Not pursued

R2-1815451 Clarification of T300 expiry in eLTE LG Electronics Inc. discussion Rel-15 NR_newRAT-Core R2-1812880
=> Noted

Agreements:
Confirm that the UE counts consecutive transmission failures of RRC Connection Request and RRC Resume Request, for following cases:
- For eLTE, when a UE moves to RRC_IDLE from RRC_INACTIVE
- For LTE, when a UE moves to RRC_IDLE from RRC suspended

R2-1815062 Requesting to enter RRC Inactive state Apple discussion

Proposal 1: Define the signaling support for UE requesting to enter RRC Inactive state, for both LTE and NR.
Proposal 2: Extend UE Assistance Information to support UE request to enter RRC Inactive state.
Proposal 3: Define UE Assistance Information to support UE request to enter RRC Inactive state.
- Qualcomm support the intention and proposal 1.

=> Should be discussed in NR and LTE TEI 16.

9.7.4 Access control

R2-1813643 Addition of RAN specific Access Category Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3553 - F LTE_5GCN_connect-Core
=> CR is agreed in principle

R2-1813645 Clarification to no barring configuration for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3554 - F LTE_5GCN_connect-Core
=> CR is agreed in principle

R2-1813647 Correction to Access Category and barring config determination for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3555 - F LTE_5GCN_connect-Core
=> CR is agreed in principle

R2-1813976 Open issues on E-UTRA connected to 5GC for UAC Intel Corporation CR Rel-15 36.331 15.3.0 3587 - F LTE_5GCN_connect-Core
=> CR is agreed in principle

R2-1815212 Discussion on UAC for E-UTRA connected to 5GC Huawei, HiSilicon discussion Rel-15 LTE_5GCN_connect-Core
=> Noted

R2-1815213 Corrections for E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3653 - F LTE_5GCN_connect-Core
=> Agree the first change. CR is revised and in principle agreed in R2-1815973.

R2-1814741 New SIB update for UAC in eLTE Xiaomi Communications discussion
=> Noted

R2-1814403 Correction on resume Access Category Google Inc. CR Rel-15 36.331 15.3.0 3613 - F LTE_5GCN_connect-Core
=> Not pursued

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9.7.5 Other

R2-1814082 CR to 36.331 on removing support for re-direct prior to RRC security establishment Ericsson CR Rel-15 36.331 15.3.0 3591 - F LTE_5GCN_connect-Core
=> Postponed for NR agreements and try to align.

R2-1814417 Correction on system information blocks acquisition Google Inc. CR Rel-15 36.331 15.3.0 3614 - F LTE_5GCN_connect-Core
CB on Thursday: => Revised in R2-1815949 and only the change about "Since a UE connected to 5GC does not support RAN-assisted WLAN interworking" can be included. (Offline#233, Google)

R2-1815949 Correction on system information blocks acquisition Google Inc. CR Rel-15 36.331 15.3.0 3614 1 F LTE_5GCN_connect-Core
=> Agreed in principle.

R2-1815214 Discussion on UE capabilities of E-UTRA connected to 5GC Huawei, HiSilicon discussion Rel-15 LTE_5GCN_connect-Core

R2-1815215 Corrections on handover for E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1182 2 F LTE_5GCN_connect-Core R2-1812721=> Revised in R2-1815616

R2-1815616 Corrections on handover for E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1182 3 F LTE_5GCN_connect-Core
=> Agreed in principle.

R2-1814515 UE identity to calculate PF and PO Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814517 Correction on paging for LTE connected to 5GC Ericsson CR Rel-15 36.304 15.1.0 0750 - F NR_newRAT-Core
=> Agreed in principle

9.8 Positioning Accuracy Enhancements for LTE

(LCS_LTE_acc_enh-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181298)
Documents in this agenda item will be handled in a break out session

9.8.1 Organisational

Including incoming LSs, rapporteur inputs

R2-1813553 LS on GAD shape(s) for high accuracy positioning (S2-188891; contact: Nokia) SA2 LS in Rel-15 LCS_LTE_acc_enh-Core To:RAN2
- NextNav wonder if a response is needed. Nokia think an answer would be needed only if we find an issue.
=> Noted

9.8.2 GNSS positioning enhancements

9.8.3 Support for IMU positioning

R2-1815346 Capture use of motion information from motion sensors Nokia, Nokia Shanghai Bell CR Rel-15 36.305 15.1.0 0077 - F LCS_LTE_acc_enh-Core
- NextNav think the phrase "barometric pressure and motion sensors" was used in 36.305 and we could align to that.
- Nokia are OK to update the terminology and will also add the CR number.
- Sony think this is a step in the right direction but a more comprehensive CR would still be useful. This could be treated in separate future CRs.
- Ericsson think we could try to finalise towards next meeting. An email discussion could be useful in this respect.

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- Qualcomm don't think an email discussion would be helpful; additional stage 2 CRs can be brought to the next meeting.
- NextNav wonder if this would also apply to 38.305 which is intended to be parallel to 36.305.
- Nokia agree a 38.305 update would make sense.

- Align the terminology "barometric pressure and motion sensors" and add the CR number.
⇨ Agreed in principle as R2-1815656
⇨ After the session R2-1815656 was found to have been double allocated and the agreed in principle CR is instead assigned to R2-1815659

9.8.5 Broadcasting of assistance data

R2-1814258 Broadcast of Additional UE geo information ITRI discussion

Proposal 1: UE shall store the routing path assistance data if possible and broadcasted it if necessary.

Proposal 2: The mechanism to report geographical information to eNB should be FFS.

- Nokia think this is not an essential correction with the WI closed, but would like to understand the proposals. They understand the routing path data is coming from the server to the UE and would like to know how the server gets it and what the format is.
- ITRI indicate if the UE knows it will use predefined routing, it can store the routing information internally.
- Chair asks about the use of "broadcast": to whom is the broadcast sent? ITRI clarify it is sent from the UE. Ericsson suggest "signal" or "transmit" might be a better term for signalling from UE to eNB.
- ZTE think the motion determination aspects were left to the next release.
⇨ Noted

R2-1814907 Alignment of IE/field names between LPP and RRC specifications Qualcomm Incorporated CR Rel-15 36.355 15.1.0 0230 - F LCS_LTE_acc_enh-Core

- Agreed in principle

9.9 Enhancing CA Utilization

(LTE_euCA-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-180561)
Documents in this agenda item will be handled in a break out session

9.9.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

9.9.2 Delay reduction for SCell set-up

R2-1813767 Miscellaneous clarifications to euCA Nokia, Nokia Shanghai Bell discussion Rel-15 LTE_euCA-Core

R2-1813768 Corrections to euCA Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3567 - F LTE_euCA-Core
=> CR is agreed in principle

R2-1813769 Corrections to euCA Nokia, Nokia Shanghai Bell CR Rel-15 36.321 15.3.0 1361 - F LTE_euCA-Core
CB on Thursday:=> Revised in R2-1815772 (Nokia)

R2-1815772 Corrections to euCA Nokia, Nokia Shanghai Bell CR Rel-15 36.321 15.3.0 1361 1 F LTE_euCA-Core
=> Agreed in principle

R2-1813759 Corrections on the IDLE state measurement vivo discussion Rel-15

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=> Revised in R2-1815614

R2-1815614 Corrections on the IDLE state measurement vivo discussion Rel-15
=> Noted

R2-1813760 Corrections on the IDLE state measurement vivo CR Rel-15 36.331 15.3.0 3560 - F LTE_euCA-Core
=> Revised in R2-1815615

R2-1815615 Corrections on the IDLE state measurement vivo CR Rel-15 36.331 15.3.0 3560 1 F LTE_euCA-Core
CB on Thursday: Revised in R2-1815785 (Offline#288, vivo)

R2-1815785 Corrections on the IDLE state measurement vivo CR Rel-15 36.331 15.3.0 3560 2 F LTE_euCA-Core
=> Agreed in principle.

R2-1815289 correction on triggering idle mode measurement Huawei, HiSilicon discussion Rel-15 LTE_euCA-Core

R2-1815290 Correction on triggering idle mode measurement Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3658 - F LTE_euCA-Core
=> Change “2> start performing idle mode measurements on supported carriers as specified in 5.6.X; ” to “2> perform idle mode measurements on supported carriers as specified in 5.6.X;”
=> With this change CR is agreed in principle in R21815974.

R2-1815291 Miscellaneous correction on idle mode measurement Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3659 - F LTE_euCA-Core

9.9.3 Signalling overhead reduction for configuration activation

9.9.4 Others

9.10 Enhancements on LTE-based V2X Services

(LTE_eV2X-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-171740)
Documents in this agenda item will be handled in a break out session

9.10.1 General

Including incoming LSs

R2-1813584 Draft LS on sensing and reporting for Mode 3 Huawei LS out LTE_eV2X-Core To:RAN1

9.10.2 Control plane

Including output of email discussion [103#41][LTE/V2X] Limited TX capability (LG)

R2-1813575 Correction on UE capability OPPO CR Rel-15 36.331 15.3.0 3548 - F LTE_eV2X-Core

R2-1813576 Correction on UE capability OPPO CR Rel-15 36.306 15.2.0 1646 - F LTE_eV2X-Core

[Huawei]: Ask whether it is also applicable for idle or only for connected? [Ericsson]: Why we need 64QAM for RX? [OPPO]: We just follow RAN1 decision.

⇨ Cover page needs to be updated
⇨ Some clarification on sl-LowT2min-r15 is needed.
⇨ [Offline Disc#702]: Revised in R2-1815663 for 36.331

⇨ Same update on sl-LowT2min-r15 is needed in 36.306
⇨ Cover page needs to be updated.
⇨ [Offline Disc#702]: Revised in R2-1815664 for 36.306

R2-1815663 Correction on UE capability LTE_eV2X-Core OPPO CR Rel-15 36.331 15.3.0 3548 1 F

R2-1815664 Correction on UE capability LTE_eV2X-Core OPPO CR Rel-15 36.306 15.2.0 1646 1 F

⇨ R2-1815663 and R2-1815664 are agreed in principle.

R2-1815021 TX Profiles Provisioning Ericsson, Huawei, Nokia discussion LTE_eV2X-Core

R2-1815022 [DRAFT] LS on TX Profiles Provisioning Ericsson LS out Rel-15 LTE_eV2X-Core To:SA2 Cc:CT1, RAN3

[Qualcomm]: It's ok to send LS to SA2, but we should be clear we don't want RAN2 impacts.
[LG]: Prefer leaving it to NW implementation.

⇨ We will send LS to SA2, but we should be clear there should be no RAN2 impact.

⇨ [Offline Disc#703]: Detailed wording will be revised in R2-1815665.

R2-1815665 LS on TX Profiles Provisioning Ericsson LS out Rel-15 LTE_eV2X-Core To:SA2 Cc:CT1, RAN3

⇨ Approved.

R2-1814358 Reconsideration on the transmission format restriction to SL packet duplication Huawei, Ericsson, HiSilicon discussion Rel-15 LTE_eV2X-Core

R2-1813573 Correction for duplication based on Rel-14 TX profile OPPO CR Rel-15 36.300 15.3.0 1193 - F LTE_eV2X-Core

- [Qualcomm]: If duplicated packet is sent for Rel-14, can Rel-14 RX UEs receive it? If not, it just wastes resources. [LG]: Support the proposal. [ZTE]: No essential use case for Rel-14. [OPPO]: It's non-backward compatible change for the legacy UE [Intel, Samsung]: Agrees with Qualcomm, OPPO. [Huawei]: If we want to stick to the agreement, we need some update in 36.323 to clarify the configured PPPR is only applied to the V2X service configured with Rel-15 TX Format. [Ericsson]: Intention was to avoid the restriction.

⇨ Keep the previous agreement.

⇨ R2-1813573 is agreed in principle.

R2-1813580 Left issue for SidelinkUEInformation OPPO discussion Rel-15 LTE_eV2X-Core

R2-1813581 Correction for SidelinkUEInformation OPPO CR Rel-15 36.331 15.3.0 3549 - F LTE_eV2X-Core

R2-1814354 Extension of carrier frequency indication in SidelinkUEInformation Huawei, HiSilicon discussion Rel-15 LTE_eV2X-Core

R2-1814355 CR on carrier frequency indication in SidelinkUEInformation (Opt 1) Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3608 - F LTE_eV2X-Core

R2-1814356 CR on carrier frequency indication in SidelinkUEInformation (Opt 2) Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3609 - F LTE_eV2X-Core

R2-1814357 CR on carrier frequency indication in SidelinkUEInformation (Opt 3) Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3610 - F LTE_eV2X-Core

- [Huawei]: if we agree with proposal1 in 3580, we may need some clarification in the field description. [Samsung]: we don't know what restriction will be there, so we should open the possibility to configure only the carrier allowing Rel-14 UEs.
- Proposal 1 RAN2 understands SIB26 includes all carriers configured in SIB21 and Rel-15 UE would rely on SIB26 for interested carrier report in SidelinkUEInformation.

⇨ Noted

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- Proposal 2 If RAN2 understands SIB21 can include a carrier which is not in SIB26, RAN2 clarify no TX pool is configured in SIB21 for the concerned carrier.
- Proposal 3 If RAN2 understands SIB21 can include a carrier which is not in SIB26, a single bit should be used for the carriers which are configured in both SIB21 and SIB26.

⇨ [Offline Disc#704]: Discuss proposal2/3 in R2-1813580 and options in R2-1814354 (OPPO: R2-1815666)

R2-1815666 SidelinkUEInformation Correction OPPO

⇨ Go towards Alt-A (to allow SIB-21 only carrier, but only allows that for the case that no TX pool configured in SIB-21 for these carriers) and option-2. The corresponding CR will be invited for the next meeting.

R2-1815508 Discussion on Cell-specific SLSS_TxDisabled LG Electronics discussion Rel-15

R2-1815511 Configuration for cell-specific SLSS_TxDisabled LG Electronics Inc CR Rel-15 36.331 15.3.0 3671 - F LTE_eV2X-Core

[Huawei]: There is a contribution in RAN1, so we should wait for RAN1 decision. We should keep RAN1 agreement and if needed we can correct the information included in SIB.

⇨ Noted.

R2-1814842 Correction of UE capability for eV2X in TS 36.306 Qualcomm Incorporated CR Rel-15 36.306 15.2.0 1656 - F LTE_eV2X-Core

⇨ Intention is ok, but it should be included in somewhere else (optional w/o capability signaling).

⇨ Revised in R2-1815667.

R2-1815667 Correction of UE capability for eV2X in TS 36.306 Qualcomm Incorporated CR Rel-15 36.306 15.2.0 1656 1 F LTE_eV2X-Core

⇨ Agreed in principle.

R2-1813584 Draft LS on sensing and reporting for Mode 3 Huawei LS out LTE_eV2X-Core To:RAN1

⇨ Approved in R2-1815668.

R2-1815565 Removal of redefinition of MCS-PSSCH-Range-r15 Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3675 - F LTE_eV2X-Core

⇨ [Offline Disc#705]: companies will check if the CR is ok. Revision is in R2-1815679.

R2-1815679 Removal of redefinition of MCS-PSSCH-Range-r15 Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3675 1 F LTE_eV2X-Core

⇨ Agreed in principle with correcting tdoc number in R2-1815689

R2-1813574 Correction on MCS and TBS table OPPO CR Rel-15 36.331 15.3.0 3547 - F LTE_eV2X-Core

R2-1813799 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-15 36.331 15.3.0 3569 - F LTE_eV2X-Core

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R2-1813951 Addition of the missing agreement regarding MCS configuration for eV2X Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3584 - F LTE_eV2X-Core

⇨ [Offline Disc#706]: To merge all changes in R2-1813574, R2-1813799, and R2-1813951 into agreeable single CR (Huawei, R2-1815669).

R2-1815669 Miscellaneous corrections in TS 36.331 on eV2X Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3584 1 F LTE_eV2X-Core

⇨ Agreed in principle.

R2-1813801 Correction for SPS configuration OPPO CR Rel-15 36.331 15.3.0 3571 - F LTE_eV2X-Core =>Revised in R2-1815609

R2-1815609 Correction for SPS configuration OPPO CR Rel-15 36.331 15.3.0 3571 1 F LTE_eV2X-Core

⇨ Noted.

R2-1815421 Simultaneous uses of both of carriers provided by eNB and only allowed to use in OOC_v2 LG Electronics discussion Rel-15 LTE_eV2X-Core R2-1812858

[Huawei]: Resource pool selection is done for each carrier in separete. And OOC determinatio nis done per carrier, so in the current specification CA is possible regardless of IC carriers and OOC carriers. [OPPO]: Is the proposal applicable for mode 3 also? Also for mode 4, what is the real use case?

⇨ Noted.

R2-1815422 Discussion on max time reduction between packet arrival and selected tx resource LG Electronics discussion Rel-15 LTE_eV2X-Core R2-1812859

[ZTE]: What's relation between T2 and mode 3? [LG]: T2 is also related to mode 3 [Intel, Ericsson]: Need of CR is not clear.

⇨ Noted.

R2-1814743 Clarification on mode-3 sensing report Beijing Xiaomi Software Tech discussion

corporated CR Rel-15 36.306 15.2.0 1656 - F LTE_eV2X-Core

R2-1815328 Clarification for SLSS_TxDisabled LG Electronics Inc. CR Rel-15 36.331 15.3.0 3665 - F LTE_eV2X-Core

R2-1813798 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-14 36.331 14.8.0 3568 - F LTE_V2X-Core Withdrawn

R2-1813800 Correction for SPS configuration OPPO CR Rel-14 36.331 14.8.0 3570 - F LTE_V2X-Core Withdrawn

R2-1813804 Correction for SidelinkUEInformation OPPO CR Rel-15 36.331 15.3.0 3573 - F LTE_eV2X-Core Late

R2-1815515 Clarification for limited Tx capability LG Electronics Inc. CR Rel-15 36.321 15.3.0 1352 3 F LTE_eV2X-Core R2-1812685 Withdrawn

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9.10.3 User plane

Including output of email discussion [103#40][LTE/V2X] MAC CRs (LG)
Including output of email discussion [103#42][LTE/V2X] PDCP operation for duplication (OPPO)

R2-1815415 Summary of [103#40][LTE/V2X] MAC CRs LG Electronics discussion Rel-15 LTE_eV2X-Core

R2-1815416 eV2X clean-up except for UL and SL prioritization in TS 36 321 LG Electronics CR Rel-15 36.321 15.3.0 1357 3 F LTE_eV2X-Core R2-1813197

⇨ R2-1815416 is agreed in principle.

R2-1815417 UL and SL prioritization LG Electronics discussion Rel-15 LTE_eV2X-Core => Revised in R2-1815561

R2-1815561 UL and SL prioritization LG Electronics discussion Rel-15 LTE_eV2X-Core

R2-1815418 UL and SL prioritization in TS 36 321-alt1 LG Electronics CR Rel-15 36.321 15.3.0 1382 - F LTE_eV2X-Core

R2-1815419 UL and SL prioritization in TS 36.321- alt2 LG Electronics CR Rel-15 36.321 15.3.0 1383 - F LTE_eV2X-Core => Revised in R2-1815562

R2-1815562 UL and SL prioritization in TS 36.321- alt2 LG Electronics CR Rel-15 36.321 15.3.0 1383 1 F LTE_eV2X-Core

R2-1815558 UL/SL prioritization in eV2x OPPO discussion

[Ericsson]: In MAC, each UL is determined by comparison with SL. [OPPO]: In MAC, whole UL transmissions are checked.

⇨ Go towards R2-1815562.
⇨ [Offline Disc#707]: Check whether R2-1815562 is ok or whether we need some editorial update. Revised in R2-1815670 (Ericsson).

R2-1815670 UL and SL prioritization in TS 36.321- alt2 LG Electronics, Ericsson CR Rel-15 36.321 15.3.0 1383 2 F LTE_eV2X-Core

⇨ Agreed in principle.

R2-1815431 De-prioritization of duplicated transmission for V2X sidelink communication LG Electronics Inc. discussion Rel-15 LTE_eV2X-Core R2-1812821

R2-1815432 De-prioritization of duplicated transmission for V2X sidelink communication LG Electronics Inc. CR Rel-15 36.321 15.3.0 1354 1 F LTE_eV2X-Core R2-1812822

[Huawei, ZTE]: It's additional optimization we may not need to take into account now.

⇨ Noted

R2-1813577 Summary of [103#42] PDCP operation for duplication OPPO report Rel-15 LTE_eV2X-Core

R2-1813578 Correction on PDCP for eV2X (Option 1) OPPO CR Rel-15 36.323 15.1.0 0249 - F LTE_eV2X-Core

R2-1813579 Correction on PDCP for eV2X (Option 2) OPPO CR Rel-15 36.323 15.1.0 0250 - F LTE_eV2X-Core

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⇨ Go towards option1.

⇨ [Offline Disc#708]: Discuss additional scearios indicated in R2-1815521 and R2-1815232 and make an agreeable CR for option1 and solution to handle the scenarios (OPPO: R2-1815688)

R2-1815688 PDCP correction OPPO

⇨ For Q1, Go towards option-3 (Align the SN association of duplication and non-duplication packet, i.e., continuous SN association is used during switching between duplication/non-duplication mode, for the traffic of R15 TX profile. But keep the legacy way for the traffic of R14 TX profile.)

⇨ For Q2, agree that set Last_Submitted_PDCP_RX_SN to x-1/4 SN window, Next_PDCP_RX_SN to x + 1.

R2-1815671 Correction on PDCP for eV2X (option-1) OPPO CR Rel-15 36.323 15.1.0 0249 1 F LTE_eV2X-Core

⇨ Agreed in principle.

R2-1815521 Necessity of reordering for V2X duplication Samsung discussion Rel-15 LTE_eV2X-Core

R2-1815232 Issue on delivery order when sidelink duplication reception is disabled ASUSTeK discussion Rel-15 36.323 LTE_eV2X-Core

R2-1815559 Left issues on PDCP reordering OPPO discussion

R2-1815087 Summary of e-mail discussion [103#41][LTE/V2X] Limited TX capability LG Electronics Inc. report Rel-15 LTE_eV2X-Core

R2-1815514 Clarification for limited Tx capability LG Electronics Inc. CR Rel-15 36.321 15.3.0 1352 2 F LTE_eV2X-Core R2-1812685

R2-1815020 MAC Impact of UE Capability Limitation in TX Carrier Selection Ericsson discussion LTE_eV2X-Core

R2-1815018 MAC Impact of UE Capability Limitation in TX Carrier Selection Ericsson CR Rel-15 36.321 15.3.0 1374 - B LTE_eV2X-Core

⇨ [Offline Disc#709]: We will send LS to RAN1 to ask whether option1-2 is considered as an additional resource reselection triggering condition or whether it is taken into account when the resource is selected but it will not trigger resource reselection procedure. We will also inform RAN2 agreement on option1-1. (LG, R2-1815672).

R2-1815672 LS on clarification for limited Tx capability Rel-15 LTE_eV2X-Core To: RAN1

⇨ Approved with the removal of attachement in R2-1815690.

R2-1814177 CR on handling remaining issues in carrier reselection in TS 36.321 alt 1 ZTE CR Rel-15 36.321 15.3.0 1367 - C LTE_eV2X-Core

R2-1814203 CR on handling remaining issues in carrier reselection in TS 36.321 alt 2 ZTE CR Rel-15 36.321 15.3.0 1368 - D LTE_eV2X-Core

[Qualcomm, Huawei]: When zone is not configured, why the UE needs to take multiple TX resource pools? Single TX pool will be selected, so we don't need any further clarification.

⇨ Noted.

R2-1815433 Flushing HARQ buffer for carrier reselection LG Electronics Inc. discussion Rel-15 LTE_eV2X-Core R2-1812823

R2-1815434 Flushing HARQ buffer for carrier reselection LG Electronics Inc. CR Rel-15 36.321 15.3.0 1355 1 F LTE_eV2X-Core R2-1812824

[OPPO]: Grant is cleared, HARQ buffer is flushed. [Qualcomm]: Why it's problem only for Rel-15? [LG]: Because we have multiple carriers for TX in Rel-15.

⇨ [Offline Disc#710]: Discuss the need of CR (LG, Rel-14 CR in R2-1815677 and Rel-15 CR in R2-1815678)

R2-1815677 Flushing HARQ buffer for carrier reselection LG Electronics Inc. draftCR Rel-14 36.321 14.8.0 - A LTE_eV2X-Core

⇨ Noted.

R2-1815678 Flushing HARQ buffer for carrier reselection LG Electronics Inc. CR Rel-15 36.321 15.3.0 1355 2 F LTE_eV2X-Core

⇨ Agreed in principle.

R2-1815119 Discussion on supporting of the ROHC for PDCP duplication LG Electronics Inc. discussion LTE_eV2X-Core R2-1812812

R2-1815156 CR on supporting of the ROHC for PDCP duplication LG Electronics Inc. CR Rel-15 36.323 15.1.0 0243 1 F LTE_eV2X-Core R2-1812815

[Samsung]: Support the proposal. [Qualcomm]: Is it specific to V2X communication?

⇨ R2-1815156 is agreed in principle.

R2-1813952 Correction on inappropriate resource reselection behavior in TS 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1364 - F LTE_eV2X-Core

⇨ Will be revisited next meeting.

R2-1813954 Correction on transmission format selection in TS 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1365 - F LTE_eV2X-Core

R2-1815321 Correction on MCS selection OPPO, Qualcomm Incorporated CR Rel-15 36.321 15.3.0 1379 - F LTE_eV2X-Core Late

R2-1815120 Correction on Sidelink HARQ operation for SL-SCH Data Reception Samsung Electronics CR Rel-15 36.321 15.3.0 1376 - F LTE_eV2X-Core

⇨ [Offline Disc#711]: Merge R2-1813954, R2-1815321 and R2-1815120 into single agreeable MAC CR (Huawei, R2-1815673).

R2-1815673 Correction on transmission format selection in TS 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1365 1 F LTE_eV2X-Core

⇨ Agreed in principle.

R2-1813807 CR on PPPR threshold OPPO,Qualcomm Incorporated CR Rel-15 36.323 15.1.0 0251 - F LTE_eV2X-Core

R2-1815019 Miscellaneous Corrections to SL PDCP Transmission and Reception Ericsson CR Rel-15 36.323 15.1.0 0254 - F LTE_eV2X-Core

R2-1815233 Correction on Reordering_Window for SLRB with PDCP duplication reception ASUSTeK CR Rel-15 36.323 15.1.0 0244 1 D LTE_eV2X-Core R2-1812838

R2-1815420 Correction for SL duplication in TS 36.323 LG Electronics CR Rel-15 36.323 15.1.0 0246 1 F LTE_eV2X-Core R2-1812861

⇨ [Offline Disc#712]: Merge R2-1813807, R2-1815019, R2-1815233 and R2-1815420 into single agreeable PDCP CR (Ericsson, R2-1815674).

R2-1815674 Miscellaneous Corrections to SL PDCP Transmission and Reception Ericsson, OPPO, Qualcomm, ASUSTeK, LG Electronics Rel-15 36.323 15.1.0 0254 1 F LTE_eV2X-Core

⇨ Agreed in principle in R2-1815691 (with the removal of the sentence “For the SLRB that does not need ciphering and deciphering, and sidelink duplication transmission is not activateddisabled, PDCP SN shall be set "0" in the PDCP PDU header.” from 5.6.2).

R2-1813953 Correction on MCS for V2X sidelink communication in TS 36.302 Huawei, HiSilicon CR Rel-15 36.302 15.0.0 1196 - F LTE_eV2X-Core

⇨ Leave the existing sentence and add new sentence “For UE autonomous resource selection for V2X sidelink communication, modulation scheme is decided by MAC scheduler (QPSK, 16QAM, 64QAM) in transmitter UE.”

⇨ With the above change, agreed in principle in R2-1815676.

R2-1814472 Correction on V2X sidelink communication in TS 36.300 Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1199 - F LTE_eV2X-Core

[Samsung]: “additional carrier” in SIB26 is not clear.

⇨ [Offline Disc#713]: Exact wording on SIB26 is discussed. “peform” needs to be corrected to “perform”. The first change should be applied only to V2X communication. “when CA is not configured “ needs to be corrected to “when one TB is generated per TTI each carrier” (Huawei, R2-1815675).

R2-1815675 Correction on V2X sidelink communication in TS 36.300 Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1199 1 F LTE_eV2X-Core

⇨ Agreed in principle.

R2-1813808 Miscellaneous correction on PDCP for eV2X OPPO CR Rel-15 36.323 15.1.0 0252 - F LTE_eV2X-Core Late

R2-1813955 Correction on MCS for V2X sidelink communication in TS 36.300 Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1196 - F LTE_eV2X-Core Withdrawn

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9.11 High capacity stationary wireless and 1024 QAM

(LTE_1024QAM_DL-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Mar. 18: WID: RP-181670)
Documents in this agenda item will be handled in a break out session

9.11.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

R2-1813506 LS on Restriction of 1024QAM CSI reporting (R1-1809609; contact: Nokia) RAN1 LS in Rel-15 LTE_1024QAM_DL-Core, LTE_sTTIandPT-Core To:RAN2

9.11.2 UE capability and potential new categories

9.11.3 Corresponding higher-layer procedures and signalling

9.12 Enhancements to LTE operation in unlicensed spectrum

(LTE_unlic-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 18: WID: RP-180402)
Documents in this agenda item will be handled in a break out session

9.12.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

9.12.2 Autonomous uplink access on Frame structure type 3

R2-1815323 Correction on FeLAA in TS 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1380 - F LTE_unlic-Core
=> CR is agreed in principle.

R2-1815324 Correction on FeLAA in TS 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3664 - F LTE_unlic-Core
=> CR is agreed in principle.

R2-1815025 Coexistence Between AUL and Dynamically Scheduled UL Grants Ericsson, Intel discussion LTE_unlic-Core
- Qualcomm think it is not critical and not support the proposals. Nokia agree.
- Huawei prefer to restart timer to fix the problem.
=> Noted

R2-1815325 Issues on coexistence between AUL and SUL Huawei, HiSilicon discussion LTE_unlic-Core

R2-1815023 Handling Coexistence Between AUL and Dynamically Scheduled UL Grants Ericsson, Intel CR Rel-15 36.321 15.3.0 1375 - B LTE_unlic-Core

R2-1815024 Handling Coexistence Between AUL and Dynamically Scheduled UL Grants Ericsson, Intel CR Rel-15 36.331 15.3.0 3644 - B LTE_unlic-Core

R2-1815326 Remaining issues with Timer X Huawei, HiSilicon discussion LTE_unlic-Core
=> Noted

R2-1815327 Correction on aul-RetransmissionTimer Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1381 - F LTE_unlic-Core
=> Not pursued

9.12.3 Other operation on Frame structure type 3

9.12.4 Others

9.13 Further NB-IoT enhancements

(NB_IOTenh2-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-182114)
Documents in this agenda item will be handled in a break out session
Some sub-items in 9.13 and 9.14 may be treated jointly.

9.13.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

R2-1813507 LS on UL PRB to DL PRB center offset for TDD NB-IoT (R1-1809681; contact: Ericsson) RAN1 LS in Rel-15 NB_IOTenh2-Core To:RAN4 Cc:RAN2

⇒ **noted**

R2-1813528 Reply LS on Issues with AS Release Assistance Indicator (R3-185106; contact: Huawei) RAN3 LS in Rel-14 TEI14 To:SA2, RAN2

⇒ **noted**

R2-1813897 Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-SCS-TDD-r15 and removing twoHARQ-ProcessesTDD Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1648 - F NB_IOTenh2-Core

- Blackberry point out some editorial corrections
- QC think NSSS based RRM reference should be to 36.211 not 36.213. Slightly different wording for “NPBCH-Based RRM measurements”

⇒ **Revised in R2-1815713**

R2-1815713 Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-SCS-TDD-r15 and removing twoHARQ-ProcessesTDD Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1648 1 F NB_IOTenh2-Core R2-1813897

⇒ **CR is agreed in principle**

R2-1813898 Clarification of features not supported in NB-IoT Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1195 - F NB_IOTenh2-Core

- QC are OK with the changes, but should be done by the WI adding the feature. WICs should be updated.
- LG support the CR but want to check with SA2 for IoT in general. HW point out that connection to 5G core is currently a Rel-16 SI and we can later remove the restriction.

⇒ **Updated the WI codes on the cover page**

⇒ **With this change the CR is agreed in principle**

R2-1813901 Miscellaneous corrections and cleanup for NB-IoT Rel-15 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3581 - F NB_IOTenh2-Core

- HW expect more changes in the next meeting.
- ZTE wonder about the enhanced phr. HW think this was agreed in the last meeting.

⇒ **Source to TSG should be R2**

⇒ **Can split into 2 CRs, one with the changes in section 4.1 and 4.2.2 with updated WI codes, and another for NB-IoT only changes.**

⇒ **Submit 2 CR to next meeting.**

9.13.2 Early Data Transmission

Early Data transmission for NB-IoT is treated jointly with MTC under AI 9.14.2. Do not use this AI for any item that can be discussed jointly.

9.13.3 System Acquisition Enhancements

System acquisition Enhancements for NB-IoT is treated jointly with MTC under AI 9.14.3. Do not use this AI for any item that can be discussed jointly.

R2-1814405 Remaining issues on additional SIB1 in eFeNB-IoT ZTE Corporation discussion Rel-15 NB_IOTenh2-Core

- HW agrees with the problem and the solution looks fine too. Maybe instead of LS to RAN1 we can just have a CR there.
- QC agree.

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⇒ **add an indication to indicate whether the subframe #3 not containing additional SystemInformationBlockType1-NB transmission could be assumed as a valid NB-IoT DL subframe in the *PhysicalConfigDedicated-NB*.**

R2-1814581 Correction to additional SIB1 in eFeNB-IoT ZTE Corporation CR Rel-15 36.331 15.3.0 3619 - F NB_IOTenh2-Core
- HW think the field name could be shorter.
- Blackberry think field description could be a bit improved
- Ericsson think reason for change and interoperability could be improved
- QC think this impacts NPDCCH and any DL

⇒ **revised in R2-1815714**

R2-1815714 Correction to additional SIB1 in eFeNB-IoT ZTE Corporation, BlackBerry UK Ltd CR Rel-15 36.331 15.3.0 3619 1 F NB_IOTenh2-Core R2-1814581
- Qualcomm wonder if we should state that this subframe can't be used except for additional SIB1, if the IE is not included. Huawei think the field causes a UE supporting additional SIB1 to reinterpret the valid subframe bitmap.
- ZTE will have a corresponding RAN1 CR in the next meeting.

⇒ **change field name to "additionalTxSIB1-Config-v1540"**

⇒ **change field description to "Indicates if subframe #3 not containing additional SIB1 transmission is a valid downlink subframe, as specified in 36.213 [23], subclause 16.4."**

⇒ **With the above changes the CR is agreed in principle**

9.13.4 Relaxed Monitoring for cell reselection

Relaxed monitoring for cell reselection for MTC and NB-IoT is treated jointly under this AI.

9.13.5 Semi-Persistent Scheduling

9.13.6 RRC Connection Release Enhancements

9.13.7 UE differentiation

9.13.8 TDD

R2-1813899 Corrections to random access power control for TDD in 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1362 - F NB_IOTenh2-Core
- QC understand the intention but aren't sure the changes makes this totally clear

Offline discussion #302 (Huawei) – 321 and 331 CR wording for TDD/FDD should be clarified

⇒ **Revised in R2-1815715**

R2-1815715 Corrections to random access power control for TDD in 36.321 Huawei, HiSilicon, BlackBerry UK Ltd CR Rel-15 36.321 15.3.0 1362 1 F NB_IOTenh2-Core R2-1813899
- Ericsson clarify that there would not be a way for NW to configure this new behaviour to be off. Huawei indicate the behaviour is mandatory in Rel-15 for TDD, not dependent on the field presence.

⇒ **CR is agreed in principle**

R2-1813900 Corrections to random access power control for TDD in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3580 - F NB_IOTenh2-Core

⇒ **Revised in R2-1815716**

R2-1815716 Corrections to random access power control for TDD in 36.331 Huawei, HiSilicon, BlackBerry UK Ltd CR Rel-15 36.331 15.3.0 3580 1 F NB_IOTenh2-Core R2-1813900

⇒ **CR is agreed in principle**

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R2-1813902 Introduction of TDD subframeAssignment in 36.355 Huawei, HiSilicon CR Rel-15 36.355 15.1.0 0228 - F NB_IOTenh2-Core
- HW, QC think there is a similar change in LTE, should align the wording.
- Ericsson think there may be a RAN3 CR needed.

⇒ **Can check the LTE CR and align**

⇒ **Updated CR in the next meeting**

9.13.9 Wake Up Signal

Wake Up Signal etc for MTC and NB-IoT is treated jointly under this Agenda Item.

R2-1814329 Small correction to paging with wake up signal ZTE Corporation, Ericsson CR Rel-15 36.304 15.1.0 0741 1 F LTE_eMTC4-Core, NB_IOTenh2-Core R2-1812105
- HW are not convinced we need to write something here.
- QC think there was an agreement, so intention is OK. Wording could be improved though.
- Mediatek have similar understanding as QC.
- Nokia thinks if UE misses WUS for any reason then anyway needs to monitor POs, so may not need to be explicit in the way this CR is.
- HW think it is more related to whether WUS has been checked and not cell reselection only.
- ZTE clarify the case is when UE misses WUS occasion, and we discussed earlier the cell reselection during PTW.
- HW think we just need to make the proposed sentence more generic instead of specific to cell reselection.
- ZTE thinks we should clarify the condition for UE to switch from WUS monitoring to legacy PO monitoring

Offline discussion #303 (ZTE) – attempt to find more correct clarification to make

⇒ **Revised in R2-1815717**

R2-1815717 Small correction to paging with wake up signal ZTE Corporation, Ericsson CR Rel-15 36.304 15.1.0 0741 2 F LTE_eMTC4-Core, NB_IOTenh2-Core R2-1814329
- Intel think it is not clear what “miss the WUS” means. We should say “WUS occasion”. ZTE, QC think we haven’t defined “WUS occasion” so may not be good to use.

⇒ **Change to “If the UE missed a WUS occasion (e.g. due to cell reselection), it monitors every PO until the start of next WUS or until the PTW ends, whichever is earlier.”**

⇒ **With the above change, the CR is agreed in principle**

9.13.10 Enhancements to standalone Operation

9.13.11 PHR enhancements

9.13.12 Support for physical layer SR

R2-1814586 Remaining issues of dedicated SR without HARQ-ACK ZTE Corporation discussion NB_IOTenh2-Core

Proposal1
- HW think the first issue is a L1 procedure so not sure why there should be MAC changes needed. ZTE thinks this is contention free resource.
- QC agreed with HW, even though UE is configured with dedicated resources for SR request the normal RA procedure isn’t followed and MAC spec is already is clear.
- ZTE thinks we should have a common understanding that UE monitors USS. HW thinks there was a CR last RAN1 meeting to clarify SR procedure. QC agrees, we can double check RAN1 spec is clear. Ericsson agree.

Proposal 2
- QC agrees there is an issue, but wonder if it is serious enough or can be acceptable. ZTE thinks it is serious, mainly due to resource wastage therefore only a few users can use the dedicated SR.

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- Nokia wonders how eNB would derive the value? HW thinks it is just used for time sharing so would allocate different users accordingly. Nokia think the period would be a common parameter between UEs using the same resource.
- HW agree it is an optimisation, but have some sympathy.
- QC thinks it may be difficult to design, so maybe challenging for Rel-15. Nokia agree that if different applications have different periodicity then it could be difficult to manage, and we would need to think further how to do that. Nokia think it is maybe not so serious to fix in this release.

Offline discussion #304 (ZTE) discussion on whether to introduce something for the multiplexing of UEs on resource (p2, 3, 4).

After offline:

- ZTE report that during offline there was no concensus to introduce the proposed changes, but some support.
- Qualcomm think we should not add something now in Rel-15 but could think about Rel-16. We need to think about the use-cases for this. Qualcomm point out that a UE capability would be needed.
- ZTE think only a few users can be supported if we don't introduce something. Qualcomm think this is a per carrier limitation, and we can have up to 16 NPRACH carriers so the number of users also depends on the carriers.
- Nokia think that we should consider how many UEs would be in connected mode at the same time, and think the existing mechanism should cope OK with the typical load and traffic model.

⇒ **noted**

R2-1814589 Clarification for dedicated SR procedure in eFeNB-IoT ZTE Corporation CR Rel-15 36.321 15.3.0 1372 - F NB_IOTenh2-Core

9.13.13 NPRACH range

9.13.14 Other

E.g. UE Feedback, Measurement Accuracy Enhancements, NPRACH reliability, small cell support, Support for RLC-UM, other.

Access baring enhancement for NB-IoT is treated jointly with MTC under AI 9.14.5. Do not use this AI for any item that can be discussed jointly

R2-1813956 Update description of consecutive precoders used for NSSS Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3585 - F NB_IOTenh2-Core

- HW are generally OK, but ask if there is a RAN1 CR because n1 is not in the RAN1 specification now. QC will check.

⇒ **Update cover sheet (meeting location, typo on consequence if not approved)**

⇒ **Change font on "E-UTRAN" in the change**

⇒ **Can make the above changes in the next meeting**

⇒ **with above changes the CR is in principle agreed**

9.14 Even further enhanced MTC for LTE

(LTE_eMTC4-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Dec. 18: WID: RP-172811)

Time budget: 0 TU

This AI is for corrections to a WI that is complete from RAN2 point of view.

Documents in this agenda item will be handled in a break out session

9.14.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

R2-1813537 LS on the applicability for dense PRS gap patterns (R4-1811737; contact: Huawei) RAN4 LS in Rel-15 LTE_eMTC4-Core To:RAN2

=> Noted

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R2-1813913 Removal of duplicate rel-15 NB-IoT/eMTC capabilities and introducing TDD-FDD differentiation for WUS capabilities in eMTC Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1625 1 F LTE_eMTC4-Core R2-1811555

=> Replace “This field indicates the minimum gap required between end of WUS and start of PO by a UE indicating support of extended idle mode DRX, as specified in TS 24.301 [28].” With “This field indicates the minimum gap required between end of WUS and start of PO by a UE indicating support of extended idle mode DRX for TDD, as specified in TS 24.301 [28].”
=> With the change above the CR can be agreed in principle.

9.14.2 Early data transmission

Early Data transmission for NB-IoT and MTC is treated jointly under this AI.

R2-1813909 Discussion on remaining issues of EDT in TS 36.331 Huawei, HiSilicon discussion Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core

Proposal1: Capture the definition of EDT which is without transition to RRC_CONNECTED.

- LG supports the proposals above except the first one.
- Ericsson would like to update the definition for UP-EDT in Stage 2 considering that connection is resumed and remove the reference to RRC connection establishment in the definition for EDT in 36.331.
- Intel thinks EDT can be considered successful even if there is fallback after successful data transmission in Msg3. Huawei considers EDT as a procedure that is intended to be completed in Msg4. Therefore, fallback should not be considered as part of it.

[CB# 401] To agree on the wording for the definition of EDT (Ericsson)
- Ericsson reports that majority agreed to remove the following text “without establishing or resuming the RRC connection” from the current definition.
- Huawei would like to make sure that there will be no change to 36.300 if this change in 36.331 is agreed.
- Ericsson wants to make sure that what is captured in 36.300 applies also for the UP solution.
- LG thinks 36.300 needs to be updated for both CP and UP solutions.

=> Remove the following text “without establishing or resuming the RRC connection” from the current definition.

Proposal2: The parameters nextHopChainingCount and drb-ContinueROHC received in the RRCConnectionRelease message are included in the stored UE AS context. There is no need to handle them separately in section 5.3.3.4.

- QC thinks this is intentional and it should be kept as it is now. Ericsson and Intel agree.

=> The spec is kept as it is, but further check is required for drb-ContinueROHC.

[CB# 402] To check whether drb-ContinueROHC is specified as assumed during the online discussion (Ericsson).
- Ericsson explains that the parameter is discarded if RRCConnectionSetup is received.
- Huawei proposes that it should be discarded every time AS context is discarded.

=> To continue the discussion in the next meeting.

Proposal3a: In section 5.3.3.3a, replace “using the stored value of nextHopChainingCount” with “using the stored value of nextHopChainingCount received in the RRCConnectionRelease message”.

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- MediaTek supports the proposal. Intel agrees.

=> In section 5.3.3.3a, replace “using the stored value of nextHopChainingCount” with “using the stored value of nextHopChainingCount received in the RRCConnectionRelease message in the preceding connection”.

Proposal3b: In section 5.3.3.3a, clarify that the UE associates the newly derived key with the used NCC

- Ericsson thinks this change is not needed as it is already clear. Intel and LG agree.
- MediaTek thinks it would be good to refer to the stored value since there are two keys now.

=> Postponed to be discussed with the related contributions.

Proposal4: Introduce a new purpose for the RRC Connection Release procedure, that is to complete the UP-EDT procedure.

- LG supports the proposal. Ericsson agrees with the intention, but would like to update the suggested text.

=> Update the RRC Connection Release procedure to capture that it may be to complete the UP-EDT procedure.

Proposal5: Introduce the field description of establishmentCause in RRCEarlyDataRequest-NB.

=> Introduce the following field description of establishmentCause for RRCEarlyDataRequest-NB message.

***RRCEarlyDataRequest-NB* field descriptions**
establishmentCause
Provides the establishment cause for the RRC early data request as provided by the upper layers. eNB is not expected to reject a *RRCEarlyDataRequest* due to unknown cause value being used by the UE.

R2-1813910 Corrections to EDT in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3582 - F NB_IOTenh2-Core, LTE_eMTC4-Core

=> The CR is to be updated based on the agreements above.
=> RAN2 supports the changes proposed in sections 5.3.3.5 and 5.3.3.6.
=> In section 5.3.8.2, replace “E-UTRAN initiates the RRC connection release procedure to a UE in RRC_CONNECTED or in RRC_INACTIVE or to a UE in RRC_IDLE for UP-EDT.” with “E-UTRAN initiates the RRC connection release procedure to a UE in RRC_CONNECTED or in RRC_INACTIVE or to complete UP-EDT.”
=> In section 5.3.12, the following change is removed “or completing a UP-EDT procedure”
=> In section 5.3.12, in note, “Except for UP-EDT fallback,” is replaced with “Except for UP-EDT;” and remove the “,” before the “and”.
=> Change in section 6.7.3.2 will be discussed within the context of the related MAC CR and the corresponding contribution.

[CB# 403] To update the CR based on the agreements and the related offline discussions (Huawei) The draft CR can be provided in R2-1815738.

R2-1815738 Corrections to EDT in 36.331 Huawei, HiSilicon CR
=> Update the definition as agreed in CB#401.

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=> Remove the change in 4.2.1
=> Remove “2> associate the derived keys with the used nextHopChainingCount;” in section 5.3.3.3a
=> Remove the changes in section 6.3.2
=> Remove the changes in section 6.7.3.2
- QC thinks early contention resolution can be used instead as it is available from Rel-15.

=> With the changes above, the CR can be agreed in principle unseen in R2-1815748.

R2-1813911 Remaining MAC issues on EDT Huawei, HiSilicon discussion Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core

Proposal 1: Add description about flexible TBS in TS 36.321.

- LG thinks that this aspect is already captured in 5.1.2 in the MAC spec. Huawei explains that in that section the behaviour is captured in case the data to be transmitted does not fit in the TB size provided by the network. Ericsson agrees.
- Nokia agrees with the intention in Proposal 1 and Proposal 2.
- ZTE, LG, and Intel thinks that the change is not needed.
- Ericsson thinks the change is needed, even though it may not be captured in this particular section. QC, Huawei, and MediaTek agree.
-

Proposal 2: After CEL change, if the TBS for Msg3 transmission for the new CEL are different from the TBS for the previous CEL, the MAC entity of the UE needs to re-build the MAC PDU in Msg3 buffer to match the TBS.

=> Postponed to be discussed with the related contributions and proposals from this meeting later this week.

Proposal 3: Add values pp128, pp256, pp512, pp768, pp1024 and pp1280 for the contention resolution timer for EDT.

- QC wonders if this was forgotten. Huawei explains that the intention was to capture the values with sec, but it ended up with PDCCH periods, i.e. pp.
- QC wonders if such extension is needed considering that reception of PDCCH would be enough to conclude on contention resolution. Huawei explains that the extension is for the delay due to the response from the CN.

=> QC would like to check during the week. RAN2 will comeback to this discussion.

Proposal 4: Only one MAC SDU for DRB can be multiplexed in contention resolution MAC PDU.

- Ericsson wonders if there is anything broken, otherwise no need to introduce any restrictions. Intel agrees.

Proposal 5: Add case 7 and case 8 in Annex B for UP EDT.

=> RAN2 intends to capture the new cases considering that multiple MAC SDUs for DRB can be multiplexed in contention resolution MAC PDU.

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R2-1813912 Corrections to EDT in 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1363 - F NB_IOTenh2-Core, LTE_eMTC4-Core
=> In section 5.4.3.1; replace the proposed change with “for NB-IoT UEs, BL UEs or UEs in enhanced coverage, if *edt-SmallTBS-Enabled* is set to *TRUE* for the corresponding PRACH resource, the UE shall choose a TB size among the set of possible TB sizes as described in subclause 8.6.2 and 16.3.3 of TS 36.213 [2].”
=> In section 3.1; replace the proposed text with “**Msg3**: Message transmitted on UL-SCH containing a C-RNTI MAC CE or a CCCH SDU optionally multiplexed with DTCH for EDT CIoT EPS User Plane optimisation, submitted from upper layer and associated with the UE Contention Resolution Identity, as part of a random access procedure.”
=> In section 3.1; the definition for early data transmission should be aligned with the definition that will be captured in 36.331.
=> Regarding the change in 5.4.2.1; postponed to be discussed with the related contributions and proposals from this meeting later this week.

[CB# 404] To update the CR based on the agreements and the related offline discussions (Huawei). The draft CR can be provided in R2-1815737.

R2-1815737 Corrections to EDT in 36.321 Huawei, HiSilicon CR
=> The CR is in-principle agreed.

R2-1814063 Handling UP EDT in new eNB Intel Corporation discussion Rel-15 LTE_eMTC4-Core
- MediaTek agrees that this could be problem and has a slightly different proposal in R2-1814610, where only NCC is discarded, i.e. the UE can attempt RRC resume for network access.
- Ericsson thinks that current mechanism is not broken, and this should be taken care of by the eNB with proper implementation.

=> RAN2 understands that this can be handled by the network.

R2-1814067 EDT when resuming in a new eNBIntel Corporation CR Rel-15 36.300 15.3.0 1197 - F LTE_eMTC4-Core
=> Add “for User Plane CIoT EPS Optimizations” after “For EDT”

[CB#412] Attach to a draft LS to RAN3 to be reviewed. The draft LS can be provided in R2-1815736. The updated CR can be provided in R2-1815747.

R2-1815747 EDT when resuming in a new eNB Intel Corporation CR Rel-15 36.300 15.3.0 1197 - F LTE_eMTC4-Core
=> The CR is endorsed from RAN2 standpoint.

R2-1815736 [DRAFT] LS on UP-EDT procedure when resuming in a new eNB

=> Update the locations for the next RAN2 meetings.
=> Add “RAN2 has endorsed the attached CR and requests RAN3 to provide feedback.
=> With the changes above, the LS is approved unseen in R2-1815751.

R2-1814332 Corrections and clarifications for MO EDT Ericsson discussion NB_IOTenh2-Core, LTE_eMTC4-Core

Proposal 1 Update the connection re-establishment procedure in TS 36.331, clause 5.3.7.2 to exclude case of integrity check failure concerning SRB1 in UP-EDT.

- Huawei thinks all of the actions in this section can be excluded.

[CB# 405] To agree on how to capture UE behaviour, i.e. avoid RRC connection re-establishment, when integrity check fails (Qualcomm)

- QC proposed to add note in section 5.3.7.2 to address the issue. Ericsson wonders if something more needs to be captured.
- QC explains that exception would only apply for this particular case for RRC connection re-establishment and it is acceptable to have the change in addition to the note.

=> The note as suggested by QC and the change in RRC connection re-establishment, i.e. "Except for UP-EDT" are captured in the CR to be revised by Ericsson in R2-1815749.

Proposal 2 UL data in Msg3 is only considered successfully delivered if the integrity check of RRC message in Msg4 is successful.

- Intel wonders about UE behaviour when UE receives RRC Reject as a response to RRC resume request.
- QC explains that EDT is aborted in that case, i.e. RRC reject, but one needs to check whether the data is not lost in that case.
- MediaTek thinks something needs to be captured to make sure that data is not lost.
- LG agrees and prefers to capture this in 36.331.
- Huawei thinks handover can be a reference case that can be checked.

[CB#406] To progress the discussion regarding where and how to capture the UE behaviour if integrity check of RRC message in Msg4 fails (MediaTek)
- MediaTek reports that no change is needed.
- LG thinks it may be good to add note in 36.331.
- Ericsson thinks that the note is not needed, but something needs to be captured in 36.323.
- Huawei thinks this is similar to legacy when re-establishment fails, so there is no need to capture anything.

=> No change is needed.

Proposal 3 Update the table of protection of RRC messages to capture that RRCConnectionReject can be sent unprotected after security activation in UP-EDT.

=> Update the table of protection of RRC messages to capture that RRCConnectionReject can be sent unprotected after security activation in UP-EDT.

R2-1814333 Corrections and clarifications for MO EDT Ericsson CR Rel-15 36.331 15.3.0 3605 - F NB_IOTenh2-Core, LTE_eMTC4-Core

=> In A6. Protection of RRC messages; for RRCConnectionReject, update A-I and A-C with "+" and column for comment with "Except for UP-EDT, A-I and A-C are NA".

=> Remove the change in 3.1, 5.3.8.1, 5.3.8.12, 5.3.3.3c, and 6.2.

[CB#411] The updated draft can be provided in R2-1815745 (Ericsson)

R2-1815745 Corrections and clarifications for MO EDT Ericsson CR
- Intel thinks "except for UP-EDT" should be removed in section 5.3.7.2.
- Ericsson thinks a note, as proposed for CB#405 is not enough.
- QC thinks it would be good to have "except for UP-EDT" considering that the section for connection re-establishment is self contained.

=> The CR is revised in R2-1815749, based on the discussion in CB#405, and agreed in principle unseen.

R2-1814334 Clarification on NCC values in EDT Ericsson discussion NB_IOTenh2-Core, LTE_eMTC4-Core

=> Noted

R2-1814335 Correction on fallback cases in EDT Ericsson discussion NB_IOTenh2-Core, LTE_eMTC4-Core

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Proposal 1 MAC sub-layer does not indicate upper layers the fallback due to legacy grant received in Msg2 in UP-EDT and RRC sub-layer does not need to distinguish two fallback cases in UP-EDT.

- QC thinks that RRC layer needs o be aware of these fallback cases.
- Intel thinks the only reason for RRC layer to be aware is to update T300 as discussed earlier.
- Huawei supports the proposal providing that it is captured in a way that data loss is avoided.
- LG does not want to change the behaviour currently captured in 36.321.
- Intel thinks nothing is broken, so no change is needed. Ericsson explains that the problem is that agreements were not captured correctly.
- Huawei thinks the spec is broken for this case.

Proposal 2 In the fallback due to legacy grant received in Msg2 in UP-EDT, MAC sub-layer updates PDU in Msg3 buffer to fit the legacy UL grant. The UE shall ensure data no longer fits in Msg3 is not lost, i.e., can be pulled from upper layers again.

=> This proposal has been discussed within the context of proposal 1.

[CB# 407] To discuss how the following case should be captured in 36.321: “TBS provided in the UL grant is different due to CE level change”. The draft CR can be provided in R2-1816021 (Huawei).

R2-1816021 Msg3 buffer handling for EDT in 36.321 Huawei, HiSilicon, Nokia, Nokia Shanghai Bell CR

- Intel, LG, Ericsson and Nokia prefer option 2.

=> Remove the changes associated with option 1.

=> Update the change in option 2 as follows:

“- if the Random Access Preamble associated with EDT was transmitted, the UL grant was received in a Random Access Response is for EDT, and there is a MAC PDU in the Msg3 buffer:

- if the TB size according to *edt-SmallTBS-Enabled* and as described in subclause 8.6.2 and 16.3.3 of TS 36.213 [2] does not match the size of the MAC PDU in the Msg3 buffer:

- the MAC entity shall update the MAC PDU in the Msg3 buffer in accordance with the TB size.”

=> The CR is agreed in principle with the changes above unseen in R2-1815750

Proposal 3 Support fallback from Msg3 retransmission indicated in DCI.

- Huawei thinks that this should not be supported due to the complexity it will introduce at this stage. Intel, MediaTek, Gemalto, and QC agree.
- Ericsson explains that this was agreed in RAN1 and already captured in RAN1 specifications.
- Huawei explains that in the LS from RAN1 it was indicated that this is up to RAN2 to decide.
- LG and Nokia support the proposal.
- Ericsson thinks that it does not need to be captured with a complex solution.

=> No support for fallback from Msg3 retransmission indicated in DCI.

Proposal 4 It is up to UE implementation how the Msg3 MAC PDU is rebuilt for retransmission on time.

=> This proposal has been discussed within the context of proposal above.

Proposal 5 If the UE receives the RRCConnectionSetup in response to an RRCConnectionResumeRequest for EDT, UL data is considered not successfully delivered.

=> If the UE receives the RRCConnectionSetup in response to an RRCConnectionResumeRequest for EDT, UL data is considered not successfully delivered.
=> RAN2 intends to check whether there is a need to capture in the specifications, and if it is, how.

R2-1814336 Correction on fallback cases in EDT Ericsson CR Rel-15 36.321 15.3.0 1370 - F NB_IOTenh2-Core, LTE_eMTC4-Core

=> In section 5.1.4; remove all changes except adding CP:
"- if CP-EDT is cancelled due to the UL grant provided in the Random Access Response message not being for EDT:"
=> Capture the following changes in section 5.1.4:

- indicate to upper layers that EDT is cancelled due to UL grant not being for EDT;
- for CP-EDT, flush the Msg3 buffer.
- for UP-EDT, update the MAC PDU in the Msg3 buffer in accordance with the uplink grant received in the Random Access Response).

FFS: for UP-EDT, how to avoid data loss due to updating of Msg3 PDU in Msg3 buffer is up to UE implementation.

=> Remove the changes in 5.4.2.1
=> The CR is revised in R2-1815746.

R2-1815746 Correction on fallback cases in EDT Ericsson CR Rel-15 36.321 15.3.0 1370 1 F NB_IOTenh2-Core, LTE_eMTC4-Core

R2-1814337 Correction on UL data discard for EDT Ericsson CR Rel-15 36.323 15.1.0 0253 - F NB_IOTenh2-Core, LTE_eMTC4-Core Late

R2-1814338 EDT and UEs configured with PSM Ericsson discussion NB_IOTenh2-Core, LTE_eMTC4-Core
=> Noted

R2-1814408 Msg3 buffer handling upon CE level change Nokia, Nokia Shanghai Bell discussion Rel-15 LTE_eMTC4-Core R2-1812869
=> Noted

R2-1814409 Flushing Msg3 buffer upon CE level change for EDT attempt Nokia, Nokia Shanghai Bell CR Rel-15 36.321 15.3.0 1358 1 F LTE_eMTC4-Core R2-1812870

R2-1814610 NCC and Key Handling for UP-EDT MediaTek Inc. discussion
=> Noted.

9.14.3 System acquisition time enhancements

System acquisition Enhancements for NB-IoT and MTC is treated jointly under this AI.

R2-1814339 Clarification on SI acquisition time enhancements in Rel-15 Ericsson CR Rel-15 36.321 15.3.0 1371 - F LTE_eMTC4-Core Withdrawn

R2-1815014 Clarification on SI acquisition time enhancements in Rel-15 Ericsson CR Rel-15 36.331 15.3.0 3642 - F LTE_eMTC4-Core
- Huawei thinks first change is acceptable but not sure about the second one.
- QC thinks the second change does not reflect necessarily the period of time where a change has not happened. LG agrees.

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=> Keep the first change and remove the second change.
=> The CR is in-principle agreed in R2-1815739 unseen.

9.14.4 Relaxed monitoring for cell reselection

Relaxed monitoring for cell reselection for MTC is treated jointly with NB-IoT under AI 9.13.4. Do not use this AI for any item that can be discussed jointly.

9.14.5 Access/load control of idle mode UEs

9.14.6 Uplink HARQ-ACK feedback

R2-1814205 Multi-user packet PUSCH mode design BUPT discussion
=> Not able to open.

R2-1814410 MPDCCH monitoring for receiving HARQ ACK feedback Nokia, Nokia Shanghai Bell
discussion Rel-15 LTE_eMTC4-Core R2-1812874

Proposal 1: For UE configured with mpdcch-UL-HARQ-ACK-FeedbackConfig, drx-ULRetransmissionTimer is started in the subframe containing the last repetition of PUSCH transmission.

- Intel supports the intention, but thinks that CR needs to be updated to avoid impact on the legacy procedure. Huawei agrees.
- Ericsson thinks nothing is broken and eNB can avoid scheduling any transmission during that period.
- QC thinks that the intention is not captured correctly in the related CR since this would mean that *drxULRetransmission* timer is stopped immediately.
- LG supports the proposal.
- QC supports the intention.

=> For UE configured with mpdcch-UL-HARQ-ACK-FeedbackConfig, drx-ULRetransmissionTimer is started in the subframe containing the last repetition of PUSCH transmission.

[CB# 408] To draft the CR that captures the agreement above. The revised CR can be provided in R2-1815740 (Nokia).

R2-1814411 MPDCCH monitoring for receiving HARQ ACK feedback Nokia, Nokia Shanghai Bell CR
Rel-15 36.321 15.3.0 1359 1 F LTE_eMTC4-Core R2-1812875

R2-1815740 MPDCCH monitoring for receiving HARQ ACK feedback Nokia, Nokia Shanghai Bell CR
Rel-15 36.321 15.3.0 1359 2 F LTE_eMTC4-Core R2-1814411
=> Add “bis” to the coverpage
=> Update the date on the cover page
=> Update the following “if the network is implemented according to the CR and the UE is not, there is no inter-operability issue.” since there is an inter-operability issue in this case.
=> The CR is revised in R2-1815752 and with the changes above in principle agreed unseen.

9.14.7 Increased PDSCH spectral efficiency

9.14.8 Increased PUSCH spectral efficiency

R2-1814839 Sub-PRB for DoNAS Sierra Wireless, S.A. discussion Rel-15

Proposal 1: Sub-PRB for DoNAS should be specified.

- Huawei thinks it is too late for Rel-15, it may be considered for Rel-16.
- QC is hesitant using the only spare bit in Msg3. Ericsson agrees.

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Proposal 2: RAN2 is requested to discuss adding indications of Sub-PRB support into messages 3 and 4.

=> Support for sub-PRB for DoNAS is not specified in Rel-15.

9.14.9 Wake Up Signal

Wake Up Signal etc for MTC is treated jointly with NB-IoT under AI 9.13.9 Do not use this AI for any item that can be discussed jointly.

9.14.10 Other

Including higher UE velocity, lower UE power class, CRS muting, dense PRS configurations etc.

R2-1814103 Configuration of dense PRS measurement gap preference Ericsson CR Rel-15 36.331 15.3.0 3595 - F LTE_eMTC4-Core
- Huawei thinks that the CR is not needed since it has already been specified in RAN4. QC agrees.

=> Not pursued.

R2-1814104 Introduction of dense PRS measurement gap preference in TS 36.300 Ericsson CR Rel-15 36.300 15.3.0 1198 - F LTE_eMTC4-Core
- Huawei and QC think the CR is not needed.

=> Not pursued.

R2-1814353 Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107) ZTE Corporation CR Rel-15 36.331 15.3.0 3607 - F LTE_eMTC4-Core
- Huawei supports the intention, but explains that name of the filed parameter should also be updated, i.e. *pos-schedulingInfoList -> posSchedulingInfoList*

=> Update the meeting information
=> Correct the name of the field parameter as shown above
=> Update the coverpage, i.e. add quotes for *(or SystemInformationBlockType1-NB in NB-IoT),* proSIB -> posSIB
=> Replace the WI code with the one for positioning.
=> With updates above, the CR can be revised in R2-1815741.

R2-1815741 Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107) ZTE CR

=> The CR is in-principle agreed from eMTC WI standpoint. The updated CR should also be presented in the main room.

R2-1814901 Measurement gaps for dense PRS Huawei, HiSilicon discussion Rel-15 LTE_eMTC4-Core
Proposal1: No RAN2 work is needed on parallel configuration of legacy gap pattern and dense PRS gap pattern.

=> This proposal has already been discussion above.

Proposal2: An optional UE capability indication is needed to indicate to the eNB whether or not the UE supports measurement gaps for dense PRS.

- QC and Ericsson do not see the need for capability.
- QC interprets the current specification as if the UE does not want to be configured with measurement gaps for dense PRS, preference is not indicated so that the network does not configure. If UE capability is introduced, this may not be possible since the network would know if the feature is supported.

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=> Network does not configure this unless a preference is indicated by UE.

- QC suggests capturing the agreement above in the specifications. Ericsson and Huawei support.

[CB# 409] To draft a CR to capture the agreement above. The draft CR can be provided in R2-1815742 (Huawei).

R2-1815742 Correction on the measurement gaps for dense PRS Huawei, HiSilicon, Qualcomm Incorporated, Ericsson CR

=> The CR is agreed in principle.

R2-1814902 Missing UE capability introduction for efeMTC Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1632 1 F LTE_eMTC4-Core R2-1812049
- Ericsson wonders if the text for powerClass-14dBm-r15 has already been agreed to added earlier. QC explains that this is correct, but it was forgotten to be implemented.
- Huawei thinks it would be good to have a detailed reference, i.e. more than just 36.331, for "Coverage enhancement based access/load control".

=> Remove the text for "densePRS-MeasurementGap-r15"
=> Revise the wording for "Coverage enhancement based access/load control"

[CB# 410] To update the CR based on the agreements above. The revised CR can be provided in R2-1815743 (Huawei).

R2-1815743 Missing UE capability introduction for efeMTC Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1632 2 F LTE_eMTC4-Core
=> The CR is agreed-in principle.

R2-1814903 Missing UE capability introduction for efeMTC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3640 - F LTE_eMTC4-Core R2-1812048
=> Not pursued.

R2-1814904 Minor corrections to services provided by physical layer Huawei, HiSilicon CR Rel-15 36.302 15.0.0 1195 1 F LTE_eMTC4-Core, LTE_1024QAM_DL-Core R2-1812051
=> The CR is agreed in principle.

R2-1814905 Corrections for CRS muting fields Huawei, HiSilicon CR Rel-15 36.304 15.1.0 0751 - F LTE_eMTC4-Core
=> Not pursued.

R2-1814906 Corrections for CRS muting fields Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3641 - F LTE_eMTC4-Core
=> Not pursued.
=> The intention with the CRs above can be provided in a 36.306 CR in the next meeting.

9.15 Highly Reliable Low Latency Communication for LTE

LTE_HRLLC-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181259
Documents in this agenda item will be handled in a break out session

9.15.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

R2-1813509 LS on HRLLC (R1-1809691; contact: Ericsson) RAN1 LS in Rel-15 LTE_HRLLC-Core
To:RAN2

9.15.2 Packet Duplication

R2-1815286 Correction on PDCP duplication option 2 Huawei, HiSilicon CR Rel-15 36.323 15.1.0 0256 - F LTE_HRLLC-Core

R2-1815285 Correction on PDCP duplication option 1 Huawei, HiSilicon CR Rel-15 36.323 15.1.0 0255 - F LTE_HRLLC-Core
- Ericsson think it is too late to use option 2 at this point in time.
CB on Thursday:
=> Revised in R2-1815773 (Offline 205, Huawei).
=> Revised in R2-1815951 (Offline 205, Huawei). The CR should be updated based on option 2.

R2-1815951 Correction on PDCP duplication option 2 Huawei, HiSilicon CR Rel-15 36.323 15.1.0 0256 1 F LTE_HRLLC-Core
=> Agreed in principle

9.15.3 Other Priority Items

Other priority items for Rel-15 as identified in RAN plenary endorsed RP-180586

R2-1813803 Correction on SPS configuration for HRLLC OPPO CR Rel-15 36.331 15.3.0 3572 - F LTE_HRLLC-Core
=> Revised in R2-1815611

R2-1815611 Correction on SPS configuration for HRLLC OPPO CR Rel-15 36.331 15.3.0 3572 1 F LTE_HRLLC-Core
=> CR is agreed in principle

R2-1813805 Correction on SPS configuration for HRLLC OPPO CR Rel-15 36.306 15.2.0 1647 - F LTE_HRLLC-Core
=> Revised in R2-1815612

R2-1815612 Correction on SPS configuration for HRLLC OPPO CR Rel-15 36.306 15.2.0 1647
=> CR is agreed in principle

R2-1815613 Corrections to multiple SPS configurations after sTTI and HRLLC merge Ericsson, OPPO CR Rel-15 36.331 15.3.0 3676 - F LTE_HRLLC-Core
=> CR is agreed in principle

9.15.4 Provision of Time Reference

Provision of time reference is a second priority item for Rel-15 as identified in RAN plenary endorsed RP-180586

R2-1815216 Corrections on time reference information Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3654 - F LTE_HRLLC-Core
=> Remove the change “NOTE: The IE timeReferenceInfo is not applicable for NB-IoT.”
=> With this change the CR is in principle agreed in R2-1815774.

R2-1815217 Discussion on UE behaivour about referenceSFN Huawei, HiSilicon discussion Rel-15 LTE_HRLLC-Core
- Qualcomm and OPPO support the intention.

R2-1815218 Correction on UE behaviour about referenceSFN Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3655 - F LTE_HRLLC-Core
=> Agreed the intention and the wording should be improved during the offline discussion.
=> Revised in R2-1815775 (Offline#208, Huawei)

R2-1815775 Correction on UE behaviour about referenceSFN Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3655 1 F LTE_HRLLC-Core
=> Agreed in principle.

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9.16 UL data compression in LTE

(LTE_UDC-Core; leading WG: RAN2; Rel-15; started Sep 17; closed: Sep 18; WID RP-180914)
Documents in this agenda item will be handled in a break out session

R2-1814479 Clarification on UDC configuration CATT, Intel Corporation CR Rel-15 36.331 15.3.0 3616 - F LTE_UDC-Core
- Add the sentence seems making no sense from Qualcomm perspective.
=> Postponed and CB on Thursday.
=> Revised in R2-1815784. (Offline#201, CATT)

R2-1815784 Clarification on UDC configuration CATT, Intel Corporation CR Rel-15 36.331 15.3.0 3616 - F LTE_UDC-Core
=> Agreed in principle

9.17 Further enhancements to CoMP for LTE

(feCOMP_LTE-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-182004)
Documents in this agenda item will be handled in a break out session

9.18 Enhanced LTE Support for Aerial Vehicles

(LTE_Aerial-Core;leading WG: RAN2; REL-15; started: Dec. 17; closed: Sep. 18: WID:RP-181310)
Documents in this agenda item will be handled in a break out session

9.18.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

9.18.2 Subscription based identification

9.18.3 Mobility enhancement for connected mode

R2-1815287 Correction on flight path information Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3656 - F LTE_Aerial-Core
=> CR is agreed in principle.

9.18.4 Airborne status/interference detection and indication

R2-1815288 Correction on measurement triggering based on number of cells Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3657 - F LTE_Aerial-Core
=> CR is agreed in principle.

R2-1814762 Remaining aspects of measurement reporting Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell discussion Rel-15 LTE_Aerial-Core
- Huawei think it is late and the issue can be fixed by eNB implementation.
- Lenovo think this will impact the performance of mobility. Nokia think it is not used for handover.
- Intel concern the motivation, the solution and also the point in time…
=> Not pursued for this release.

R2-1814754 Introduction of capability for timer t3xx for Rel-15 Aerial WI Ericsson CR Rel-15 36.306 15.2.0 1655 - B LTE_Aerial-Core

R2-1814760 Prohibit timer for measurement reporting Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3633 - F LTE_Aerial-Core

9.18.5 Others

R2-1814744 Remaining aspects of capabilities for Rel-15 Aerial WI Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell discussion Rel-15 LTE_Aerial-Core

R2-1814745 Remaining aspects of capabilities for Rel-15 Aerial WI Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1654 - F LTE_Aerial-Core
- China telecom, China Unicom and CMCC support the CR.

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- Qualcomm object the CR.

CB on Friday

9.19 Bluetooth/WLAN measurement collection in MDT

(LTE_MDT_BT_WLAN-Core; leading WG: RAN2; REL-15; started: Dec. 17; closed: Sep. 18: WID: RP-181743)

Documents in this agenda item will be handled in a break out session

R2-1813555 Reply LS on Bluetooth/WLAN measurement collection in MDT (S3-182592; contact: Ericsson) SA3 LS in Rel-15 LTE_MDT_BT_WLAN-Core To:RAN2 Cc:SA5, RAN3, CT4
=> Noted

R2-1815265 Discussion on LS from SA3 on Bluetooth/WLAN measurement collection in MDT CMCC discussion Rel-15
=> No need to reply LS to SA3.

R2-1815195 Discussion on the reply LS from SA3 on BT and WLAN measurement collection in MDT Huawei, HiSilicon discussion Rel-15

R2-1815196 Correction on Bluetooth and WLAN measurement collection in MDT Huawei, HiSilicon, Intel Corporation CR Rel-15 36.331 15.3.0 3651 - F LTE_MDT_BT_WLAN-Core
=> Only change the name and not touch the behaviour.
=> Revised in R2-1815771. (Offline#200, Huawei)

R2-1815771 Correction on Bluetooth and WLAN measurement collection in MDT Huawei, HiSilicon, Intel Corporation CR Rel-15 36.331 15.3.0 3651 1 F
=> Remove the change on change
=> Revised in R2-1815950, which is agreed in principle.

9.20 Increased number of E-UTRAN data bearers

(INOBEARRAN-Core ; leading WG: RAN2; REL-15; started: Dec. 17; closed: Sep. 18: WID: RP-182133)

Documents in this agenda item will be handled in a break out session

R2-1814046 Correction to MAC PDU subheaders including eLCID Qualcomm Incorporated CR Rel-15 36.321 15.3.0 1366 - F INOBEARRAN
- Samsung asks if it is possible to have two sentences. Qualcomm would like it to be similar to Rel-14

=> The CR is revised in R2-1815627

R2-1815627 Correction to MAC PDU subheaders including eLCID Qualcomm Incorporated CR Rel-15 36.321 15.3.0 1366 - F INOBEARRAN
=> The CR is in principle agreed

9.21 Other LTE Rel-15 WIs

This agenda item may be corrections relating to Rel-15 WIs which had no allocated RAN2 time but which might have minor RAN2 impact (e.g. CT/SA WIs for which we have received an LS requesting RAN2 action)

Documents in this agenda item will be handled in a break out session

R2-1813529 LS on LTE 1RX CRS-IM UE capabilities (R4-1811385; contact: Intel) RAN4 LS in Rel-15 LTE_1RX_CRS_IM To:RAN2
=> Intel will provide associated CR to update the field description to the next meeting
=> Noted

R2-1814843 CR to 36.306 on correction of capability name for NW based CRS interference mitigation Ericsson CR Rel-15 36.306 15.2.0 1657 - F LTE_NW_CRS_IM
=> The CR is in principle agreed

9.22 LTE TEI15 enhancements

Small Technical Enhancements affecting LTE Rel-15 that do not belong to any Rel-15 WI.

This AI is for corrections to items introduced under TEI15. New proposals shoud be submitted to TEI16 when it time is allocated for it later in the release/

Documents in this agenda item will be handled in a break out session

Including output of email discussion [103#43][LTE/NR] Early implementable features/CRs (DOCOMO)

R2-1814105 Avoiding resource shortage due to introduction of positioning SIBs Ericsson, ESA discussion Rel-15

Proposal 1 *Introduce an 80ms scheduling offset for SI messages containing positioning assistance data broadcast.*

Proposal 2 *Support an SI message periodicity of 320ms or longer for SI messages containing positioning assistance data.*

- CMCC thinks that the baseline should be 160ms for the periodicity

Proposal 3 *Introduce a separate pos-si-WindowLength for SI messages containing positioning assistance data broadcast.*

- CMCC thinks that this is an acceptable proposal

- Qualcomm asks where the requirement that PWS has to use 10ms SI window. Ericsson will check
- Qualcomm asks if 80ms offset is sufficient and if we should multiple offset like in UMTS. Ericsson explains they chose one offset just to make it simpler but is open to introduce multiple offsets.
- Intel asks if there is a backward compatibility issue. Ericsson explains that this is only introduced in Rel-15. Intel thinks that theoretically there is still one as we have frozen the release.
- Nokia thinks that this is a SI scheduling enhancements and highlights that this a major change.

=> Noted

R2-1814106 SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information Ericsson, ESA CR Rel-15 36.331 15.3.0 3596 - F TEI15

=> Not treated

R2-1814204 Informing the serving eNB of the feMBMS service(s) received from a different eNB in ROM Mode Qualcomm India Pvt Ltd discussion Rel-15

Proposal 1. *MBMS capable UE sends MBMS Interest Indication when it starts/stops receiving eMBMS service in ROM.*

Proposal 2. *UE can send MBMS Interest Indication to serving eNB even if serving eNB does not broadcast SIB15.*

- LG asks what happens if the eNB doesn't understand the interest indication

Proposal 3. *eMBMS service numerology, channel bandwidth and EARFCN are introduced in MBMS Interest Indication.*

- Huawei asks why the UE has to report the channel number.

Agreements

1. MBMS capable UE sends MBMS Interest Indication for eMBMS service in ROM
2. UE can send MBMS Interest Indication to serving eNB even if serving eNB does not broadcast SIB15.
3. eMBMS service numerology, channel bandwidth and EARFCN are introduced in MBMS Interest Indication
4. Qualcomm will bring the CR next meeting

R2-1815085 [Draft] LS on inclusion of numerology and bandwidth of eMBMS services in USD Qualcomm India Pvt Ltd LS out Rel-15 To:SA4 Cc:SA2, RAN1

=> Wait for next meeting after we agree to the CR

=> Noted

R2-1814324 Configured Scheduling during Random Access Procedure Ericsson discussion Rel-15 TEI15

=> Not treated

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R2-1814325 Correction on Configured Scheduling during Random Access Procedure Ericsson CR Rel-15 36.321 15.3.0 1369 - F TEI15
=> Not treated

R2-1814749 Consolidated output from LTE RRC ASN.1 review Samsung Telecommunications report Rel-15 36.331 TEI15 Late
- Rapporteur indicates that he is consolidating the list and will attempt to provide the document at the end of the week

=> Not available

R2-1815001 Adding alternative way of measuring throughput for small data busts to UE throughput measurements Ericsson, Nokia CR Rel-15 36.314 15.1.0 0057 - F TEI15
=> The CR is revised in R2-1815651

R2-1815651 Adding alternative way of measuring throughput for small data busts to UE throughput measurements Ericsson, Nokia CR Rel-15 36.314 15.1.0 0057 - F TEI15
- Huawei thinks that the formula is not needed and we need to come back to this next meeting

=> The CR is postponed

R2-1815007 UE operation upon RRC reject reception Apple CR Rel-15 36.331 15.3.0 3667 - F TEI15
- Ericsson indicates that we have a similar discussion in NR and maybe it can first be treated there
- Ericsson thinks that the network can resolve this issue. Apple thinks that some operators don't have the feature and we see that it is not good for the UE.
- Nokia thinks that this would require adding a new feature while we have existing tools that we can use for idle mode. Nokia explains that there is reject with redirection option as well.
- Apple would like to avoid a UE getting stuck in a congested cell

=> Noted

R2-1815534 Discussion on supporting selective retransmission for PDCP data recovery Huawei, HiSilicon discussion
=> This will not be supported in Rel-15
=> Noted

R2-1815535 CR for supporting selective retransmission for PDCP data recovery Huawei, HiSilicon CR Rel-15 36.323 15.1.0 0257 - C TEI15
=> Not treated

R2-1815536 Considering on supporting out-of-order deciphering in LTE Huawei, HiSilicon discussion
Proposal 1: Suggest to give some description in the standard to support out-of-order deciphering of PDCP PDU in LTE, especially for DL data transfer.
- LG points out that PDCP always delivers in order so the deciphering can also be in order.
- Qualcomm doesn't think the note is needed and it doesn't help.

=> No support to introduce this
=> Noted

R2-1815537 CR on supporting out-of-order deciphering in LTE Huawei, HiSilicon CR Rel-15 36.323 15.1.0 0258 - F TEI15
=> Not treated

10 WI: New Radio (NR) Access Technology

(NR_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Dec. 18: WID: RP-181726)

10.1 Organisational

Incoming LSs, status from other groups, etc.

Liaisons to RAN2

R2-1813515 Reply LS on Further Agreements on Paging Occasions (R1-1809965; contact: Huawei) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
=> To be discussed in the idle mode session how to respond to the questions.
=> Noted

R2-1813526 LS on higher layer configuration for search space monitoring (R1-1810010; contact: NTT DOCOMO) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
- DOCOMO understand there is no RAN2 spec impact from this LS
- Vivo think we need to discuss based on contributions this week.
=> The draft reply can be considered after handling the L1 parameter contributions to this meeting

R2-1813536 LS on SFTD scenarios for late drop (R4-1811714; contact: Ericsson) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN1
=> To be discussed based on contributions

R2-1813556 LS on Using same counter in EDCE5 (S3-182616; contact: Ericsson) SA3 LS in Rel-15 EDCE5 To:RAN2, RAN3
=> Draft reply LS in R2-1815795 to SA3 to explain that we have addressed this issue by adding a note to the specification but we will not change any parameter names in ASN.1 (Ericsson, Offline discussion 02)

R2-1815795 [DRAFT] Reply LS on " LS on Using same counter in EDCE5" Ericsson LS out NR_newRAT-Core To:SA3 Cc:RAN3
=> Approved in R2-1816010

R2-1813561 LS reply on L2 measurement (S5-185585; contact: Ericsson) SA5 LS in Rel-15 NETSLICE-ADPM5G To:RAN2 Cc:RAN1, RAN3
=> To be discussed based on contribution on 10.2.4

R2-1815592 LS on replay protection (S3-183059; contact: Ericsson) SA3 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN3
=> Noted

R2-1815593 LS on initial NAS security agreements (S3-183066; contact: fQualcomm) SA3 LS in Rel-15 5GS_Ph1-SEC To:SA2, CT1, RAN2, RAN3, SA
- Ericsson think that the requirement " RAN specifications shall only include S-NSSAI ciphered in RRC layer." will have impact in RAN2 but can wait for SA2. Qualcomm agree to wait for SA2.
- Nokia think SA3 were told last year that we send NSSAI in the clear. Also think we could not change this in Rel-15
=> Draft reply LS in R2-1815796 to SA3 to explain that in RRC, NSSAI can currently only be sent in MSG5 and it is sent in the clear if upper layer provide the information - it can be omitted completely if upper layers do not provide it. Remind them that Rel15 is frozen and backwards incompatible changes cannot be made. (Offline discussion 03, Qualcomm)

R2-1815796 [DRAFT] Reply LS on initial NAS security agreements Qualcomm LS out Rel-15 NR_newRAT-Core R2-1815593 To:SA3 Cc:SA2, CT1, RAN3, SA
=> Approved in R2-1816022

R2-1815594 Reply LS on key update (S3-183071; contact: Ericsson) SA3 LS in Rel-15 NR_newRAT-Core To:RAN2
=> Noted

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R2-1815596 LS on RRC Reestablishment during N2 Handover (S3-183143; contact:Huawei) SA3 LS in Rel-15 5GS_Ph1-SEC To:RAN2 Cc:RAN3
=> Noted

R2-1815597 LS on the Impacts of increasing the MAC-I and NAS-MAC size (S3-183168; contact: AT&T) SA3 LS in Rel-15 FS_256_Algo To:RAN2, RAN3, CT1 Cc:ETSI SAGE
- Huawei understand that this is discussed for Rel-16 and is currently a study.
=> Draft LS in R2-1815797 to SA3 to explain that we will study this within the scope of Rel-16.Can include a comment that the SA3 comment about data rates is not applicable to short MAC-I in message 3 for which the size is coverage limited 9 (Offline discussion 04, Huawei)
=> Chair will report to RAN that we will probably need time in R16 to study various things coming from SA3.

R2-1815797 [DRAFT] Reply LS on the Impacts of increasing the MAC-I and NAS-MAC size Huawei LS out Rel-15 NR_newRAT-Core R2-1815597 To:SA3 Cc:RAN3, CT1
=> Approved in R2-1816012

Liaisons to RAN2 with response to RAN2 questions but no follow up actions (responses can be considered during discussions in the meeting)

R2-1813510 Reply LS on termination of contention-free BFR (R1-1809887; contact: MediaTek) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813511 Reply LS on UE power class and UE capability on SRS carrier switch (R1-1809889; contact: Huawei) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2, RAN4

R2-1813513 Reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon (R1-1809958; contact: Ericsson) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813517 Reply LS on PDCCH common search space configurations (R1-1809971; contact: NTT DOCOMO) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813523 Reply LS on UE capability for simultaneousTxSUL-NonSUL (R1-1810004; contact: Huawei) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2 RAN4

R2-1813530 Reply LS on gap-assisted serving cell measurement (R4-1811404; contact: Intel) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813531 LS for UE capability of measurement gap for inter-RAT NR measurement not yet configured with EN-DC (R4-1811405; contact: Intel) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813532 Reply LS on Discrepancy on the number of NS values (R4-1811458; contact: Ericsson) RAN4 LS in To:RAN2

R2-1813534 Reply LS on SRS carrier switching (R4-1811534; contact: Huawei) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN1, RAN2

R2-1813539 Reply LS on RAN2 progress on ANR (R4-1811851; contact: vivo) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN1, RAN3, SA5

R2-1813557 Reply LS on inactive security (S3-182640; contact: Ericsson) SA3 LS in Rel-15 NR_newRAT-Core, LTE_5GCN_connect To:RAN2 Cc:RAN3
=> All LSs above are noted

Liaisons to RAN2 with agreements to take into account (can be considered during discussions in the meeting)

R2-1813514 LS on density parameter for CSI-RS-ResourceConfigMobility (R1-1809960; contact: Intel) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813516 LS on DCI format 2_3 (R1-1809966; contact: NTT DOCOMO) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813518 LS on K1 Slot Offset (R1-1809982; contact: Qualcomm) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813519 LS on Text Proposal to TS 38.300 for URLLC (R1-1809991; contact: Ericsson) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813520 LS on NR-LTE Co-existence (R1-1809992; contact: Intel, LGE) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2, RAN4

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R2-1813521 LS on the number of CQI reports (R1-1809993; contact: Intel) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813522 LS on bandwidth configuration for initial BWP (R1-1810002; contact: MediaTek) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813524 LS on new UE features list for NR (R1-1810005; contact: NTT DOCOMO) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN, RAN2 Cc:RAN3, RAN4

R2-1813525 LS on cross-carrier scheduling (R1-1810009; contact: NTT DOCOMO) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813533 LS on UE feature list for NR (R4-1811531; contact: NTT DOCOMO) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN, RAN1, RAN2 Cc:RAN3

R2-1813538 LS on introduction of UE capability for pi/2 BPSK modulation with power boosting capability (R4-1811788; contact: Indian Institute of Tech) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813541 LS on RAN4 design on channel bandwidth (R4-1811905; contact: Qualcomm) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1813545 LS on RAN1 NR UE feature list (RP-182143; contact: NTT DOCOMO) RAN LS in Rel-15 NR_newRAT-Core To:RAN1, RAN2 Cc:RAN4

R2-1813558 LS on indications for key synchronization (S3-182668; contact: ZTE) SA3 LS in Rel-15 5GS_Ph1-SEC To:CT4, CT1, RAN2, RAN3

R2-1813562 Reply LS on Response LS on adding measurements on average number of total active UEs (S5-185594; contact: Huawei) SA5 LS in Rel-15 TEI15 To:RAN2

=> All LSs above are noted

Liaisons with RAN2 in CC

R2-1813502 LS to 3GPP RAN and 3GPP SA on 5G Indicator Requirements (contact: Sprint) GSMA 5GSI LS in RAN, SA Cc:SA2, SA1, RAN2, CT1 , CT

R2-1813503 LS on unified access control in RRC_Inactive (C1-185602; contact: Huawei) CT1 LS in Rel-15 5GS_Ph1-CT To:SA1 Cc:RAN2

R2-1813546 LS on EN-DC Power Control (RP-182167; contact: Sprint) RAN LS in Rel-15 NR_newRAT-Core To:RAN4 Cc:RAN2

R2-1813547 LS on NR UE feature list (RP-182173; contact: NTT DOCOMO) RAN LS in Rel-15 NR_newRAT-Core To:RAN2, RAN4 Cc:RAN1

R2-1813560 LS reply to RAN 3 on L2 measurement (S5-185560; contact: Ericsson) SA5 LS in Rel-15 NETSLICE-ADPM5G To:RAN3 Cc:RAN1, RAN2

R2-1815595 LS on maximum output size of SUPI concealment schemes (S3-183142; contact: Ericsson) SA3 LS in Rel-15 5GS_Ph1-SEC To:CT1, CT4 Cc:RAN2, SA2

=> All LSs above are noted

Liasions related to NR Rel-16 with no TU at this meeting

R2-1813542 Reply LS on Return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (R6-180157; contact: Qualcomm) RAN6 LS in Rel-16 FS_5G-SRVCC To:SA2 Cc:RAN2, RAN3

R2-1813544 LS on additional information related to return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (R6-180164; contact: Nokia)) RAN6 LS in Rel-16 FS_5G-SRVCC To:SA2 Cc:RAN2, RAN3

New LS in (during RAN2#103bis)

R2-1815995 LS to RAN2 on Data Volume measurements (S5-186392; contact: Ericsson and Orange) SA5 LS in Rel-16 EE_5G To:RAN2 Cc:RAN1, RAN3, SA

=> We will handle this as part of our Rel-16 SI/WIs

=> Noted

R2-1815954 Reply to LS on Preamble Power Ramping Counter (R1-1811964; contact: Fujitsu) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN4

=> Noted

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R2-1815812 LS on PDCCH monitoring periodicities for DCI format 2_0 (R1-1811968; contact: Intel) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
=> Noted

R2-1815955 LS on ss-PBCH-BlockPower definition (R1-1811965; contact: Intel) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
=> Noted

R2-1815956 LS on MO configuration with multiple SSB SCS for a given SSB frequency (R1-1811966; contact: Intel) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN4
=> Noted

Other

R2-1813595 [DRAFT] Reply LS on higher layer configuration for search space monitoring NTT DOCOMO, INC. LS out Rel-15 NR_newRAT-Core To:RAN1
Come back Friday after L1 parameter papers have been discussed.
=> Revised in R2-1815933

R2-1815933 [DRAFT] Reply LS on higher layer configuration for search space monitoring NTT DOCOMO, INC. LS out Rel-15 NR_newRAT-Core To:RAN1
=> Approved in R2-1816023

R2-1814241 Draft LS reply to RAN1 LS on cross-carrier scheduling Qualcomm Incorporated LS out Rel-15 NR_newRAT-Core To:RAN1

10.2 Stage 2 and common UP/CP aspects

10.2.1 Stage 2 corrections for TS 38.300

As previously requested stage 2 description improvements should be discussed with the specification rapporteur before submission to the meeting - the aim is reduce the required discussion time in the meeting.

R2-1815162 Monitoring of SSB associated with the initial DL BWP when the initial DL BWP is active Samsung discussion
- ZTE think this can be decided in RAN2 and we don't need an LS to RAN1. Could tell LS of the decision that we have taken.
- MediaTek it has been agreed in RAN1 already and we don't need to ask a question.
- Vivo think we should ask RAN1 about the second question but also ok to decide in RAN2.

=> This will be resolved in RAN2 without the need for more questions to RAN1.

Agreement
- SSB-based Beam Level Mobility, BFD, and RLM is based on the SSB associated to the initial DL BWP and can only be configured for the initial DL BWPs and for DL BWPs containing the SSB associated to the initial DL BWP. For other DL BWPs, Beam Level Mobility, BFD and RLM can only be performed based on CSI-RS. (Details of how this is captured in stage 2 needs to be worked on)

=> An implication due to SCS can be discussed as part of offline discussion 05

R2-1815163 Draft LS to RAN1 on BM and BFD when the initial DL BWP is active Samsung LS out To:RAN1

R2-1814895 Clarification on SSB-based BM, RLM and BFD ZTE Corporation, Sanechips CR Rel-15 38.300 15.3.0 0102 - F NR_newRAT-Core
- Huawei think that SSB associated to the initial DL BWP is not clear. Assume it means the SSB for which the PBCH provides information on the CORESET.

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- ZTE think we could have referred to serving cell but SSB associated to the initial DL BWP is more future proof.
- MediaTek wonder if this is clear without decryption of the multiplexing pattern 2/3. ZTE think that referring to the initial DL BWP is correct irrespective of the multiplexing pattern.

=> Can consider whether to add text on RLM as well, otherwise that will be addressed for next meeting
=> Revised in R2-1815798 (Offline discussion 05)

- Update from offline: No CR update is required. For the RLM aspect it can be considered at the next meeting.

=> R2-1814895 is agreed in principle

R2-1815798 Clarification on SSB-based BM, RLM and BFD ZTE Corporation, Sanechips CR Rel-15 38.300 15.3.0 0102 1 F NR_newRAT-Core

Stage 2 description improvements - discussed with rapporteur

R2-1813758 Clarification on dynamic grant override configured grant vivo, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0083 - F NR_newRAT-Core
=> Title to be revised to refer to "configured downlink assignment"
=> Agreed in principle in R2-1815800

R2-1814210 Scheduling Request Overview Rapporteur (Nokia), Ericsson CR Rel-15 38.300 15.3.0 0088 - F NR_newRAT

- Samsung suggest to mention that BSR can be triggered even when resources are available.
- Samsung suggest tha sentence above SR on RACH should be reworded

=> Revised in R2-1815801 (Offline discussion 06)

R2-1815801 Scheduling Request Overview Rapporteur (Nokia), Ericsson CR Rel-15 38.300 15.3.0 0088 1 F NR_newRAT
=> Agreed in principle

R2-1815299 RA triggers Huawei, HiSilicon, Rapporteur (Nokia), Qualcomm Incorporated CR Rel-15 38.300 15.3.0 0106 - F NR_newRAT-Core
=> Add "or SR failure" to the new sentence
=> Agreed in principle in R2-1815806

R2-1814935 Correction to beam failure detection in Stage-2 Rapporteur (Nokia), Qualcomm, Nokia Shanghai Bell CR Rel-15 38.300 15.3.0 0103 - F NR_newRAT
=> Agreed in principle

R2-1814211 System Information Provisionning Rapporteur (Nokia), OPPO, Sanechips, ZTE corporation CR Rel-15 38.300 15.3.0 0089 - F NR_newRAT
=> Agreed in principle

R2-1815068 Corrections to System Information Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0074 1 F NR_newRAT-Core R2-1812430
=> Agreed in principle

R2-1814212 Transport of NAS Messages Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0090 - F NR_newRAT
=> To be reworded to make it clear that in all cases the NAS messages are n transparent containers. IP sentence also needs to be revised as IP is not applied in all cases.
=> Revised in R2-1815802 (Offline discussion 07)

R2-1815802 Transport of NAS Messages Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0090 1 F NR_newRAT
=> Agreed in principle

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R2-1814213 SON Overview Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0091 - F NR_newRAT
=> Make section 15.2 void
=> No other changes needed - we leave to RAN3 if they want to capture anything
=> Agreed in principle in R2-1815803

R2-1814478 Clarification on basic voice support Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0095 - F NR_newRAT-Core
=> Make the new section 16.2.1
=> Agreed in principle in R2-1815804

R2-1814685 Clarification on RLC mode change Ericsson, Nokia CR Rel-15 38.300 15.3.0 0100 - F NR_newRAT-Core
=> CR is not agreed (covered in stage 3)

R2-1814963 CR on Slice Aware Access Control Nokia, Nokia Shanghai Bell, Huawei, HiSilicon CR Rel-15 38.300 15.3.0 0028 4 F NR_newRAT-Core R2-1810145
=> Agreed in principle

R2-1815136 Stage2 Corrections on UE capability Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0075 1 F NR_newRAT-Core R2-1812555
=> Agreed in principle

R2-1814121 Correction to the system information in Handover Request message Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0086 - F NR_newRAT-Core
=> Agreed in principle

R2-1814128 Signalling flow for transitions from RRC_INACTIVE to RRC_IDLE Huawei, HiSilicon, Nokia (Rapporteur) CR Rel-15 38.300 15.3.0 0087 - C NR_newRAT-Core
- Intel wonder why we need to support this case that the anchor node wants to release the UE instead of moving the UE to the new node and letting that node decide.
- Huawei think this is already supported in the current spec base on RAN3 agreements. The anchor eNB can put what it wants in the RRC release message. The message would be security protected.
- OPPO think the anchor should always relocate the UE to the new eNB and new eNB can decide

=> Change to Cat F
=> Agreed in principle in R2-1815805

Stage 2 description improvements" - not discussed with rapporteur

R2-1813701 CR on 38.300 for ANR vivo CR Rel-15 38.300 15.3.0 0082 - F NR_newRAT-Core

R2-1814076 CR to 38.300 on clarification of AMF switch in RRC_INACTIVE Ericsson CR Rel-15 38.300 15.3.0 0084 - F NR_newRAT-Core

R2-1814454 CR on 38.300 for Correction of BWP adaptation LG Electronics Mobile Research CR Rel-15 38.300 15.3.0 0094 - F NR_newRAT-Core

R2-1814540 SSBurst and SSB relations in 38.300 Ericsson CR Rel-15 38.300 15.3.0 0096 - F NR_newRAT-Core

R2-1814835 Overview description of SSB transmission in time domain in TS 38.300 Ericsson discussion Rel-15 36.300 NR_newRAT-Core

R2-1814665 Defining inter-system and intra-system handover (38.300) Ericsson CR Rel-15 38.300 15.3.0 0097 - F NR_newRAT-Core

R2-1814671 Security interworking between EPC and 5GC (38.300) Ericsson CR Rel-15 38.300 15.3.0 0098 - F NR_newRAT-Core

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R2-1814673 Correction regarding key deletion at state transition to RRC IDLE (38.300) Ericsson CR Rel-15 38.300 15.3.0 0099 - F NR_newRAT-Core

R2-1815115 Correction in 38300 for beam failure recovery Huawei, HiSilicon CR Rel-15 38.300 15.3.0 0105 - F NR_newRAT-Core

10.2.2 Stage 2 corrections for TS 37.340

Corrections to 38.300 or 37.340 for Standalone and any EN-DC related aspects added in June 18.

As previously requested stage 2 description improvements should be discussed with the specification rapporteur before submission to the meeting - the aim is reduce the required discussion time in the meeting.

Stage 2 description improvements - discussed with rapporteur

R2-1814892 Miscellaneus clarifications ZTE Corporation, Sanechips, Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0071 - F NR_newRAT-Core
=> Agreed in principle

Stage 2 description improvements" - not discussed with rapporteur

R2-1813752 Move bear type change table to normative text vivo CR Rel-15 37.340 15.3.0 0055 - F NR_newRAT-Core

R2-1814231 EN-DC SN addition upon inter-RAT handover from UTRAN or GERAN Qualcomm Incorporated CR Rel-15 37.340 15.3.0 0058 - F NR_newRAT-Core

R2-1814232 Introduction of IDC mechanism for EN-DC operation Qualcomm Incorporated CR Rel-15 37.340 15.3.0 0059 - F NR_newRAT-Core

R2-1814385 Clarification of incorrect message sequence in SN initiated SN change Nokia, Nokia Shanghai Bell CR Rel-15 37.340 15.3.0 0060 - F NR_newRAT-Core

R2-1815108 clarification on UE capability coordination result Huawei, Hisilicon CR Rel-15 37.340 15.3.0 0077 - F NR_newRAT-Core

10.2.3 Positioning

Corrections to both the stage 2 and stage 3 aspects related to positioning.

R2-1814003 SFN offset for OTDOA Intel Corporation CR Rel-15 36.355 15.1.0 0229 - F NR_newRAT-Core

- Qualcomm are unsure what the issue is since the UE only needs to know the SFN of the LTE cell. The current field they understand as a way of providing the answer in the assistance data and they don't see that more resolution is needed.
- Intel clarify that the UE needs to report the PRS offset to the network, but if it only knows the SFN offset it cannot provide an accurate PRS offset value; it would need to determine the timing based on autonomous gaps.
- Ericsson think the RAN4 requirements already state the autonomous gap will be used as part of the OTDOA procedure prior to asking for the measurement gap. In that view the CR would be not needed. Intel think in this case there is no motivation to have the SFN offset at all.
- Qualcomm see that the two approaches are equivalent; either you get the SFN from the assistance data as we have today or you read it by autonomous gap. They understand that the offset is only needed to frame resolution.
- Intel think the measurement gap is requested to millisecond resolution and you need to know where PRS is. They agree that it could be as coarse as subframe level but they think frame level is not enough information for the UE.
- Ericsson think Intel have a point since the measurement gap will be issued in relation to the NR timing, but needs to be requested in relation to LTE timing. With the current frame level information the request has +/-5 ms uncertainty which causes a risk of missing the PRS occasion.
- Qualcomm think the current assistance data gives the frame offset. Chair thinks it is only to frame resolution. Intel think there could be a subframe level offset that needs to be indicated.
- Nokia wonder what the benefits in terms of measurement performance are and would rather see the issue driven from RAN4. They see this as an optimisation. Also wonder if the network handling is down to implementation or if something needs to be standardised.

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- Intel think the advantage is clear from avoiding autonomous gaps. We may not need an SFTD offset but we need a slot offset.
- Qualcomm think it would be simpler to add a slot offset, and don't understand why the new offset can be negative. They would rather add a slot offset 0..19.
- Intel would be OK with a slot offset.
- MediaTek agree that this is useful to avoid the frame level uncertainty.
- Ericsson see the value but think it is a bit of an optimisation. Intel think this was the original purpose of introducing the SFN offset and this is more of a correction.
- Nokia wonder if there is RAN4 impact. Intel think it relates to the performance requirements and we could send an LS to them.
- Nokia want to clarify that no E-SMLC behaviour needs to be specified.

⇨ Change to a slot offset 0..19 (we have an existing field slotNumberOffset)

- Ericsson point out this range for the offset assumes 15 kHz numerology. Chair understands that the offset is for the LTE cell.
- Intel also think this is based on LTE numerology. Ericsson would like to change the name.
- Nokia would like to keep it as a comeback.
- Nokia ask about the terminology; is it right that the time reference is always the PCell? Intel agree this is a mistake to be fixed in the update. It should be the NR serving cell and LTE reference cell.

⇨ Revised in R2-1815657 (come back Friday)

⇨ LS to RAN4 to notify them of the change. Intel, R2-1815658 (offline discussion #601).

R2-1815563 Retrieving SFN offset as part the E-CID procedure Ericsson CR Rel-15 36.355 15.1.0 0231 - F NR_newRAT-Core Late

- Qualcomm think the E-CID measurement report can already include the SFN, so this flag may not be needed. If the UE has it, it can report it.
- Ericsson agree that the SFN is already there, but part of the response time is uncertain if the UE needs to retrieve the LTE timing autonomously. The network may not need the actual SFN, only the information that the UE has retrieved it, so we could save some signalling by sending only the flag.
- Nokia think the E-CID location report in the proposal would allow the UE to indicate that it knows the SFN of at least one LTE cell. Ericsson think this is basically correct; it becomes part of the OTDOA procedure to request acquisition of SFN timing from the LTE cell, and the proposal moves the retrieval uncertainty to the E-CID procedure instead of the OTDOA procedure.
- Qualcomm think it is up to network implementation whether to run E-CID before OTDOA or not, but if it does it can use the signalling we have today to request the SFN. They see the flag as redundant. You may not get SFN for all the measured cells but one should be sufficient. They see the reasoning for adding the flag to the request to indicate to acquire SFN.
- Ericsson agree the flag in the report is a bit of an optimisation but they think the flag in the request is useful to ensure that the SFN is included for at least one cell.
- Intel checked the spec and the SFN says that the target device shall include the field if it was able to determine it. So today the UE behaves as if the proposed flag is there and always set to TRUE.
- Nokia ask if the motivation is that the cell identified by the flag is necessarily chosen as the reference cell. Ericsson indicate it does not need to be; you can translate the time for another cell from the assistance data.
- MediaTek think the flag is not necessary since we already have the behaviour, given the requirement found by Intel.
- Ericsson think the condition "if it was able to determine" leaves a lot to the interpretation of the device. The potential outcome is that the network triggers E-CID, does not get the SFN back, and autonomous gaps need to be used in the OTDOA procedure. They think there is some uncertainty in how the UE will behave when it gets the E-CID request.
- Qualcomm see the point that since acquiring the SFN is best-effort, the UE may not provide it, and they understand that Ericsson's proposal would make it mandatory. Qualcomm doubt whether having the flag in the request changes the outcome of the procedure in the end.
- Ericsson think from the lower layer perspective in the UE, in a best-effort procedure you may not make the effort to go to LTE and take the measurements. The UE provides what it has available.

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- Chair thinks if we take the CR we would also need a new “shall” requirement on the UE to take the measurements that it wouldn’t take otherwise.
- Qualcomm thinks then we would need autonomous gaps also for E-CID, which we previously agreed not to do. We would need a stage 2 change to introduce gap requests and autonomous gaps in the E-CID case. The latter was not allowed by RAN4 so far.
- Ericsson agree we would need to look at gaps for E-CID case, but they don’t see the need for requested gaps. RAN4 would need to consider autonomous gaps in the same way they did for OTDOA.
- Intel think the easy way is to include the SFN offset in the OTDOA report. Ericsson understand this means we would ask one UE to provide the offset and then it can be used for other UEs. Intel confirm this interpretation.
- Nokia are concerned with the new impact of these proposals. Are these proposed as late drop changes? Ericsson think it would need to be for the late drop since June is frozen.
- Qualcomm think regarding Intel’s proposal, the only thing of interest to the network is which cell the UE knows the SFN of; it does not need the actual SFN.
- Intel think if the E-CID procedure requires an autonomous gap instead, we don’t save anything in the aggregate.
- Ericsson think one benefit is to clarify the procedure by narrowing down the response time for the OTDOA operation, and in addition the E-CID procedure will guide the network to populate the assistance data. The UE will go out and do the same measurements anyway, and the proposal puts a break between the uncertain part in the E-CID procedure and a more predictable OTDOA procedure.
- Nokia think this is not a correction, and if it’s for the late drop we could revisit in the next meeting. The discussion has drifted a bit from what is in the CR and they would like to see a fresh proposal reflecting that.
- Can be considered next meeting taking this discussion into account

⇨ Noted

10.2.4 Other

Including contributions related to SA5 work on L2 measurements.
RAN#80 agreed the Rel-16 work programme. Do not submit any documents that fall within the scope of the Rel-16 WIs/SIs.

L2 measurements

R2-1815103 Discussion on L2 measurements Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1815104 Draft LS to SA5 on L2 measurements Huawei, Hisilicon LS out Rel-15 NR_newRAT-Core To:SA5
- Ericsson think the incoming LS also asked us to check some definitions.

=> Add "assuming a Rel-16 WI is approved by RAN plenary"
=> Definitions for new measurements can be reviewed offline and a response added to the LS
=> Revised in R2-1815807 (Offline discussion 08)

R2-1815807 Draft LS to SA5 on L2 measurements Huawei, Hisilicon LS out Rel-15 NR_newRAT-Core To:SA5
=> Approved in R2-1816011

Other

R2-1814214 Relocating QoS Flows from the default DRB Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT

R2-1814215 Priority handling at QoS flow relocation Nokia, Nokia Shanghai Bell CR Rel-15 38.300 15.3.0 0092 - F NR_newRAT

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10.3 Stage 3 user plane

Documents in this agenda item will be handled in the NR user plane break out session

Essential functional corrections will be prioritized. For clarity and consistency enhancements, please pre-discuss and seek support with the TS rapporteur.

R2-1814887 CR on 36.321 for clarification of UL HARQ process for SUO case 1 MediaTek Inc. CR Rel-15 36.321 15.3.0 1373 - F NR_newRAT-Core

10.3.1 MAC

10.3.1.1 MAC general aspects

Corrections related to BWP and SUL and general issues

General MAC

R2-1813638 Miscellaneous corrections Samsung CR Rel-15 38.321 15.3.0 0411 - F NR_newRAT-Core
=> All editorials will be merged into this CR
=> The CR is revised in R2-1815635

R2-1815635 Miscellaneous corrections Samsung CR Rel-15 38.321 15.3.0 0411 - F NR_newRAT-Core
=> The CR is endorsed

=> Everything editorial should be discussed with the rapporteur otherwise it will not be handled

R2-1814778 Removal of description of RRC parameters from MAC Ericsson discussion Rel-15 NR_newRAT-Core
- LG support the proposals
- CATT and Huawei think that if we delete everything it removes readability
- Nokia think the 331 should just a pointer to 321 and descriptions should be in 321, just like in LTE

=> Noted

R2-1814779 Correction for Removal of RRC parameter descriptions Ericsson CR Rel-15 38.321 15.3.0 0468 - F NR_newRAT-Core
=> Not treated

R2-1815454 CR on parameter description for beam failure detection and recovery LG Electronics Inc. CR Rel-15 38.321 15.3.0 0513 - F NR_newRAT-Core
=> Not treated

R2-1814806 Introduction of Data Inactivity timer in MAC Ericsson CR Rel-15 38.321 15.3.0 0475 - F NR_newRAT-Core
- LG thinks that this only covers MCG case. Ericsson indicates that we can replace the word MAC entity with UE.
- Nokia thinks that it may be complicated for the network if we have a per UE timer so not sure it is needed.

=> update the variable to start with lower case “d”
=> CR is revised in R2-1815636

R2-1815636 Introduction of Data Inactivity timer in MAC Ericsson CR Rel-15 38.321 15.3.0 0475 - F NR_newRAT-Core
=> The CR is in principle agreed

RRC trigger BWP switching

R2-1813631 CR on RRC triggered BWP switching while RACH is ongoing OPPO CR Rel-15 38.321 15.3.0 0409 - F NR_newRAT-Core
- Ericsson thinks that the UE should first stop the RA and then do BWP switching

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- Nokia thinks that I can be clearer as well that the UE restarts
=> The CR is revised in R2-1815638

R2-1815638 CR on RRC triggered BWP switching while RACH is ongoing OPPO CR Rel-15 38.321 15.3.0 0409 - F NR_newRAT-Core
- Lenovo asks what type of RA you do in the case of PDCCH order, CBRA or CFRA. Nokia and Oppo have the understanding that the network shouldn't do anything stupid.
- LG thinks that this should be done for CFRA only
=> The CR is in principle agreed

R2-1814468 Clarification for ongoing RA procedure upon BWP switching LG Electronics Mobile Research discussion NR_newRAT-Core
- Huawei thinks that this is up to the network implementation and no need to capture it in the chair notes
- Nokia asks if this is for all CFRA, the network cannot guarantee that for BFR case.
=> Noted

Not treated

R2-1814467 CR on 38.321 for BWP switching by RRC upon RA procedure LG Electronics Mobile Research CR Rel-15 38.321 15.3.0 0444 - F NR_newRAT-Core

R2-1814705 CR on RRC triggered BWP switching Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0451 - F NR_newRAT-Core

R2-1814780 Correction for RRC triggered BWP switch Ericsson CR Rel-15 38.321 15.3.0 0469 - F NR_newRAT-Core

R2-1815113 CR to 38.321 on RRC controlled BWP switching ITRI CR Rel-15 38.321 15.3.0 0492 - F NR_newRAT-Core

BWP switching

R2-1813847 BWP switching with on-going Random Access procedure CATT, OPPO discussion Rel-15 NR_newRAT-Core
Proposal 1: Rel-15 NR should allow running concurrently a Random Access procedure initiated on a FDD SCell and a DL BWP switch on this SCell.
- ZTE thinks that only CFRA can be done on the SCell
- Nokia thinks that any RA in Scell would be network initiated so there is no need in this release
- Interdigital thinks this is already possible in the spec and no need to change behaviour
- Qualcomm also doesn't see a strong justification
=> Not needed for rel-15
=> Noted

R2-1813848 CR on BWP switching with ongoing RA procedure CATT, OPPO CR Rel-15 38.321 15.3.0 0419 - F NR_newRAT-Core
=> Not treated

R2-1814223 Correction on BWP operation procedure Xiaomi Communications CR Rel-15 38.321 15.3.0 0443 - F NR_newRAT-Core
=> Not treated

R2-1814706 Correction of BWP switching when SUL is configured Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0452 - F NR_newRAT-Core
- LG agrees in principle but it should be in normative text
- Samsung thinks this is clear already
- Oppo thinks that we should first specify in the BWP
- CATT and Nokia supports with the Note.
- Intel, Lenovo, ZTE also think that we need normative text
Do we do carrier selection first or switching?
- Qualcomm thinks that a note should be sufficient
=> Understanding is carrier selection is performed first and then BWP switching and we will capture this in a normative way

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=> The CR is revised in R2-1815639

R2-1815639 Correction of BWP switching when SUL is configured Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0452 - F NR_newRAT-Core
=> reverse the last change – keep perform
- Oppo thinks that we have change the behaviour of the UE
=> The CR is in principle agreed in R2-1815871 with the change above

R2-1814785 Ambiguity of SUL selection for Random Access Ericsson discussion Rel-15 NR_newRAT-Core
=> Not treated

R2-1814712 CR on BWP in unpaired spectrum operation Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0455 - F NR_newRAT-Core
=> Not treated

Default BWP

R2-1814793 Correction on Default BWP description Ericsson discussion Rel-15 NR_newRAT-Core
- Qualcomm thinks this way only works for PDCCH switching and the text in 321 is fine and what needs to be changed is in 331. Qualcomm explains that there are UEs that only support RRC BWP switching
=> No support to change
=> Noted

R2-1814794 Correction on Default BWP handling Ericsson CR Rel-15 38.321 15.3.0 0474 - F NR_newRAT-Core
=> Not treated

R2-1815503 Discussion on configuration of bwp inactivity Timer and default bwp ITL discussion Rel-15
=> Withdrawn

R2-1815507 Correction on on configuration of bwp inactivity Timer and default bwp ITL CR Rel-15 38.331 15.3.0 0491 - F NR_newRAT-Core
=> Withdrawn

SMTC

R2-1813749 SMTC operation in MAC vivo discussion Rel-15
- Samsung thinks that the measurement gaps already covers the SMTC. LG, Ericsson, and Huawei agree
=> No support
=> Noted

R2-1813750 SMTC operation in MAC vivo CR Rel-15 38.321 15.3.0 0416 - F NR_newRAT-Core
=> Not treated

Bwp-inactive timer

R2-1813628 CR on bwp-InactivityTimer when PDCCH indicating BWP switching is received OPPO, Huawei CR Rel-15 38.321 15.3.0 0406 - F NR_newRAT-Core
=> Replace all changes with “DL” in both sentences - if the defaultDownlinkBWP-Id is configured, and the MAC entity switches to the DL BWP which is not indicated by the defaultDownlinkBWP-Id; or
=> The CR is in principle agreed in R2-1815640 with the change above

Not treated

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R2-1814038 Remaining Considerations on the behavior of the bwp-InactiveTimer ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1814039 CR to 38.321 on bwp-InactiveTimer ZTE Corporation, Sanechips CR Rel-15 38.321 15.3.0 0433 - F NR_newRAT-Core

Half duplex operation

R2-1814791 PDCCH monitoring and duplex mode operation Ericsson discussion Rel-15 NR_newRAT-Core R2-1811611
=> Noted

R2-1814792 Correction to PDCCH monitoring Ericsson CR Rel-15 38.321 15.3.0 0232 2 F NR_newRAT-Core R2-1811612
- Huawei is fine with the intention but similar things are specified in RAN1 specs
- CATT agrees with Huawei and there are no issues in terms of clarity in the RAN1 specs
- LG thinks that some additional clarifications are needed
- Nokia thinks that there is an inconsistency but what Ericsson's CR is too big and we can just say we don't do PDCCH monitoring. Intel agrees with Nokia.
- CATT thinks that RAN1 is quite complicated.

=> We will add a simple generic sentence outside the loop of DRX if the UE has UL transmission the UE doesn't monitor PDCCH [reference to RAN1]
=> The CR is revised in R2-1815641

R2-1815641 Correction to PDCCH monitoring Ericsson CR Rel-15 38.321 15.3.0 0232 2 F NR_newRAT-Core R2-1811612
=> Update unpaired
- LG thinks that we should capture this in a different section, like DRX. Nokia agrees and in DRX we have a section saying that we continuously monitor.

=> The CR is postponed

R2-1813885 PDCCH monitoring under HD FDD and flexible UL DL configuration Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> moved from 10.3.1.6
Proposal 1: RAN2 confirms that half duplex FDD is not supported in R15.
- Intel thinks it is clear that it is support in the RAN1 specs
- Huawei just want to confirm HD "FDD" is not supported
- Ericsson agrees but we don't need to confirm everything we don't support

=> Noted

R2-1814456 PDCCH monitoring upon flexible TDD LG Electronics Mobile Research discussion NR_newRAT-Core
=> moved from 10.3.1.6
=> Noted

R2-1814477 Correction on half-duplex and flexible UL DL configuration Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0353 1 F NR_newRAT-Core R2-1812028
=> moved from 10.3.1.6
=> Noted

Rapporteur check

R2-1815452 Discussion for clarifying the meaning of RA initiation LG Electronics Inc. discussion NR_newRAT-Core
Proposal. For RA procedure, RAN2 confirms that the term initiate indicates the actual execution of RA procedure, and, for the cases where 'initiate' is used as the meaning of triggering RA procedure, it should be changed to 'trigger' in order to distinguish it from actual execution of RA procedure.
=> Noted

R2-1815453 CR for clarifying the meaning of RA initiation LG Electronics Inc. CR Rel-15 38.321 15.3.0 0512 - F NR_newRAT-Core
=> Not treated

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10.3.1.2 Random access

Corrections related to random access procedure, except multi-beam aspects

Msg3 Rebuilding

R2-1813998 Correction on UL grant mismatch for switch between CBRA and CFRA Intel Corporation CR Rel-15 38.321 15.3.0 0431 - F NR_newRAT-Core
=> Noted

R2-1814884 On rebuilding MAC PDU due to RACH fallback MediaTek Inc. discussion Rel-15
=> Noted

R2-1814937 CR to 38.321 on Msg3 rebuilding Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0485 - F NR_newRAT
- Oppo asks if we can just cover CBRA to CFRA only and only for HO case

R2-1813686 Msg3 handling for swtiching between CBRA to CFRA Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0303 1 F NR_newRAT-Core R2-1811107
=> The CR is revised in R2-1815642

R2-1815642 Msg3 handling for swtiching between CBRA to CFRA Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0303 1 F NR_newRAT-Core R2-1811107
- Oppo thinks that option 1 has the drawback of dropping MAC PDU
- Lenovo thinks option 1 is what we agreed
- Asustek has a preference for option 2 as it is more general
- Mediatek thinks that since we can't do segmentation then there is an inconsistency with the fact that we can't do padding if the grant size is larger than 8 bytes.
- Nokia thinks that we option 2 we'd be rebuilding all the time and we shouldn't optimize.
- Ericsson has a preference for option 1 as well, the corrections should be as small as possible for the frozen release.
- LG has similar concern with Mediatek.
- CATT wants to clarify that there is option 2a and 2b
- Samsung also is concerned with option 2
- Xiaomi asks why we don't put the BSR again. Samsung explains that this is a rare case.

=> we need to add a statement that we can do padding in case the grant is larger than 8 bytes. Can we done for next meeting.
=> Option 1 is agreed
=> Update the title to say from CBRA to CFRA
=> The CR is in principle agree in R2-1815872 with option 2 deleted

R2-1814938 CR to 38.322 on Msg3 rebuilding Nokia, Nokia Shanghai Bell CR Rel-15 38.322 15.3.0 0025 - F NR_newRAT
- LG agrees with Nokia's proposal

=> we will address the CBRA to CFRA switch case
=> Noted

Agreements
=> MAC SDUs are put again through the rebuilding process

Not treated

R2-1813849 Erroneous Msg3 usage after successful CFRA CATT discussion Rel-15 NR_newRAT-Core R2-1811211

R2-1813850 Correction for erroneous Msg3 usage after successful CFRA CATT CR Rel-15 38.321 15.3.0 0420 - F NR_newRAT-Core

R2-1814611 TB size mismatch when switching between CFRA and CBRA Lenovo, Motorola Mobility discussion Rel-15 NR_newRAT-Core

R2-1814612 TB size mismatch for UL grant scheduled by RAR – Option1 Lenovo, Motorola Mobility CR Rel-15 38.321 15.3.0 0448 - F NR_newRAT-Core

R2-1814613 TB size mismatch for UL grant scheduled by RAR – Option2 Lenovo, Motorola Mobility CR Rel-15 38.321 15.3.0 0449 - F NR_newRAT-Core

R2-1814783 Corrections on Rebuilding MAC PDU for different grant size in RAR Ericsson CR Rel-15 38.321 15.3.0 0238 3 F NR_newRAT-Core R2-1810086

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R2-1814885 CR on rebuilding MAC PDU due to RACH fallback MediaTek Inc. CR Rel-15 38.321 15.3.0 0483 - F NR_newRAT-Core

R2-1814936 Msg3 rebuilding Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT Withdrawn

R2-1815169 Handling of the Msg3 buffer for RA switching LG Electronics Inc. discussion NR_newRAT-Core

R2-1815177 CR on contention-free RA resources in 38.321 LG Electronics Inc. CR Rel-15 38.321 15.3.0 0495 - F NR_newRAT-Core

R2-1815178 CR on handling of the Msg3 buffer for RA switching LG Electronics Inc. CR Rel-15 38.322 15.3.0 0026 - F NR_newRAT-Core Withdrawn

R2-1815181 CR on handling of the Msg3 buffer for RA switching LG Electronics Inc. CR Rel-16 38.321 15.3.0 0496 - F NR_newRAT-Core Withdrawn

R2-1815201 CR on handling of the Msg3 buffer for RA switching LG Electronics Inc. CR Rel-15 38.321 15.3.0 0500 - F NR_newRAT-Core Withdrawn

R2-1815229 Msg3 generation for switching between CFRA and CBRA in NR ASUSTeK discussion Rel-15 38.321 NR_newRAT-Core

R2-1815519 CR on handling of the Msg3 buffer for RA switching LG Electronics Inc. CR Rel-15 38.321 15.3.0 0517 - F NR_newRAT-Core

R2-1815529 CR on handling of the Msg3 buffer for RA switching LG Electronics Inc. CR Rel-15 38.322 15.3.0 0027 - F NR_newRAT-Core

R2-1815548 Msg3 rebuilding Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT

Carrier Selection

R2-1814042 CR to the RA triggered BWP swtich in case SUL is configured ZTE Corporation, Sanechips CR Rel-15 38.321 15.3.0 0435 - F NR_newRAT-Core
=> Not treated

R2-1814786 Corrections for BWP switch and NUL/SUL selection for Random Access Ericsson CR Rel-15 38.321 15.3.0 0470 - F NR_newRAT-Core
=> Not treated

R2-1813629 CR on carrier to use for the Random Access procedure OPPO CR Rel-15 38.321 15.3.0 0407 - F NR_newRAT-Core
- LG thinks it is already obvious as it is the only case. Oppo would like to specify it clearly. Nokia doesn't want to include any new cases every time we have a new case

=> The CR is not pursued

Not treated

R2-1814041 Consideration on the RA triggered BWP swtich in case SUL is configured ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core R2-1812950

R2-1814043 CR to the RA triggered BWP swtich in case SUL is configured ZTE Corporation, Sanechips CR Rel-15 38.321 15.3.0 0436 - F NR_newRAT-Core

R2-1814784 Switch between SUL and NUL during ongoing RA procedure Ericsson discussion Rel-15 NR_newRAT-Core R2-1811623

R2-1814785 Ambiguity of SUL selection for Random Access Ericsson discussion Rel-15 NR_newRAT-Core

RA Procedure

R2-1813642 Clarification on the presence of ra-ResponseWindow Samsung CR Rel-15 38.331 15.3.0 0187 - F NR_newRAT-Core
- Nokia asks why isn't it the case for the other parameters.
- Huawei also thinks that something needs to be done, but asks why we are diverging from LTE behaviour.

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- Ericsson is not sure this is needed, even if it is signalled the UE can just ignore as the it receives the RAR on the sPCEll.
- LG also has the same understanding as Samsung
- Vivo thinks that we can use the same approach as for some other parameters, we just configure the same value. Samsung thinks that if we use different numerology the same value might still be confusing.

=> the CR is postponed for CP next meeting

R2-1814618 HARQ buffer flushing at RACH completion Lenovo, Motorola Mobility discussion Rel-15 NR_newRAT-Core

Proposal 1: UE shall only flush the HARQ buffer used for transmission of the MAC PDU in the Msg3 buffer upon completion of RACH procedure for cases when the Random Access Preamble was selected by the MAC entity among the contention-based Random Access Preamble(s).

- Huawei understands the intention but the buffer should be flushed first. Lenovo thinks that if you look at the procedure it is not obvious if the UE flushes first

=> The UE implementation can handle this

=> Noted

Not treated

R2-1814619 Correction to Completion of RACH procedure Lenovo, Motorola Mobility CR Rel-15 38.321 15.3.0 0450 - F NR_newRAT-Core

R2-1813683 RA Preamble Selection Procedure Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0413 - F NR_newRAT-Core

R2-1813851 Msg3 grant overlapping with another UL grant CATT discussion Rel-15 NR_newRAT-Core

R2-1813852 Correction for Msg3 grant overlapping with another UL grant CATT CR Rel-15 38.321 15.3.0 0421 - F NR_newRAT-Core

R2-1813853 More collision issues with HARQ Process #0 CATT discussion Rel-15 NR_newRAT-Core R2-1811214

R2-1813854 Correction to fix collisions on HP#0 during Random Access Procedure – Option 1 CATT CR Rel-15 38.321 15.3.0 0310 1 F NR_newRAT-Core R2-1811215

R2-1813855 Correction to fix collisions on HP#0 during Random Access Procedure – Option 2 CATT CR Rel-15 38.321 15.3.0 0422 - F NR_newRAT-Core

R2-1814502 Corrections on random access preambles for SSBs Google Inc. CR Rel-15 38.321 15.3.0 0446 - F NR_newRAT-Core

R2-1814718 Corrections on the RACH parameters Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0461 - F NR_newRAT-Core

R2-1814789 Correction for preamble group A or B selection Ericsson CR Rel-15 38.321 15.3.0 0473 - F NR_newRAT-Core

R2-1814868 Correction on RRC parameters for RACH Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0478 - F NR_newRAT-Core Withdrawn

R2-1814939 Correction to RA prioritization Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0486 - F NR_newRAT

R2-1815117 Correction on powerOffset in RACH initialization Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0493 - F NR_newRAT-Core

R2-1815160 Clarification for contention-free RA resources LG Electronics Inc. discussion NR_newRAT-Core

R2-1815539 Correction to RA prioritization in RRC Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0496 - F NR_newRAT

SI Request

R2-1814720 Discussion on SI request failure case Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

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- LG thinks this is not a problem
- Samsung agrees with LG and this indication to upper layer is there independent of the RRC state
- Vivo thinks that RLF won't be triggered anyways

=> No support for the existence of the issue
=> Noted

R2-1814721 Corrections on SI request failure case Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0463 - F NR_newRAT-Core
=> Not treated

RA-RNTI Ambiguity

R2-1814044 Discussion on the ambiguity in Msg2 reception ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core R2-1809661
=> Noted

R2-1814535 CR to 38.321 on the ambiguity in Msg2 reception ZTE Corporation, Sanechips CR Rel-15 38.321 15.3.0 0447 - F NR_newRAT-Core
=> Not treated

R2-1814781 Solution to RA-RNTI ambiguity Ericsson discussion Rel-15 NR_newRAT-Core R2-1811615
=> Noted

R2-1814782 Signaling to resolve RA-RNTI ambiguity Ericsson CR Rel-15 38.321 15.3.0 0355 1 F NR_newRAT-Core R2-1811616
=> The CR is revised in R2-1815653

R2-1815653 Signaling to resolve RA-RNTI ambiguity Ericsson, ZTE CR Rel-15 38.321 15.3.0 0355 1 F NR_newRAT-Core R2-1811616
=> The CR is not pursued

Discussion on RA-RNTI ambiguity

- CATT asks why it cannot be handled by network configuration. ZTE explains that it is difficult for the network to handle this especially in FR2
- LG is not convinced with the existence of the issue
- Qualcomm is concerned with the CR as there is an issue with backward compatibility. ZTE explains that we can add a capability. Nokia thinks that if we add a capability the UE's won't implement it anyways
- CATT thinks it can be handled by gNB implementation. Oppo and Intel is also concerned with backward compatibility.

=> UE vendors do not agree to do this in Rel-15

10.3.1.3 Multi-beam operation

Corrections related to multi-beam operation, beam failure detection, beam failure recovery.

BFR Termination

R2-1814005 Corrections on CFRA BFR termination InterDigital CR Rel-15 38.321 15.3.0 0432 - F NR_newRAT-Core

- Panasonic asks if the MAC is aware of the searchspace. Interdigital thinks the MAC is normally not aware but it should receive this information from the PHY layer.
- Panasonic that the UE should still monitor the PDCCH
- CATT supports the changes in proposal 1
- Huawei shares the same view as Panasonic
- Nokia doesn't thinks proposal 2 is needed, and supports proposal 1 and we should add a reference to ran1. Lenovo agrees.

=> Change 2 is deleted

- Mediatek thinks that if it is clear in RAN1 specs. Vivo is not sure it is clear in the specs so we need to clarify.
- Ericsson would like to capture this in RAN2 after RAN1 LS.

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=> The CR the is revised in R2-1815643

R2-1815643 Corrections on CFRA BFR termination InterDigital CR Rel-15 38.321 15.3.0 0432 - F NR_newRAT-Core
=> The CR is in principle agreed

R2-1814867 Correction for the termination of BFR Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0477 - F NR_newRAT-Core
- Nokia doesn't think this is needed. Huawei thinks that we would stop incorrectly monitoring, so we need to correct it.
- Asustek doesn't thinks this is needed.
=> Not pursued

Not treated

R2-1814886 CR on condition of successful BFR termination MediaTek Inc. CR Rel-15 38.321 15.3.0 0484 - F NR_newRAT-Core

R2-1813598 CR on termination of contention-free BFR vivo CR Rel-15 38.321 15.3.0 0403 - F NR_newRAT-Core

R2-1813856 Correction on BFR termination criterion CATT CR Rel-15 38.321 15.3.0 0182 2 F NR_newRAT-Core R2-1809524

R2-1813997 Correction to termination of contention-free BFR Intel Corporation CR Rel-15 38.321 15.3.0 0430 - F NR_newRAT-Core

R2-1814777 Correction for Successful termination of BFR Ericsson CR Rel-15 38.321 15.3.0 0467 - F NR_newRAT-Core

R2-1815076 Draft Reply LS on termination of contention-free BFR InterDigital LS out Rel-15 To:RAN1

R2-1815193 Condition for successful BFR termination LG Electronics Inc. discussion NR_newRAT-Core
Moved from 10.3.1.4

BFR Procedure

R2-1814942 Correction to BFR procedure Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0488 - F NR_newRAT
=> The UE can also perform contention free in the initial BW after BWP switching for BFR. Nokia will add this to the cover page
=> The CR is in principle agreed in R2-1815870 with the cover page updated

Not treated

R2-1813637 Correction on the start of the beamFailureRecoveryTimer Samsung CR Rel-15 38.321 15.3.0 0410 - F NR_newRAT-Core

R2-1813682 CFRA for BFR on Initial BWP Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0412 - F NR_newRAT-Core

R2-1813858 Correction on the scaling between CSI-RS and SSB for BFR CATT CR Rel-15 38.321 15.3.0 0423 - F NR_newRAT-Core
- LG asks why we don't make the change in the RRC
=> the CR is postponed

R2-1815117 Correction on powerOffset in RACH initialization Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0493 - F NR_newRAT-Core
=> The editorial will be captured in rapporteur spec

R2-1814197 Discussion on the beam change during BFR vivo discussion Rel-15 NR_newRAT-Core

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- Ericsson asks why does this impact the random access procedure. Vivo explains that this is due to RAR reception. Nokia explains that even if the UE misses one RAR it is not critical. Samsung further explains that the MAC doesn't store any of this parameters.
- LG needs more time to check this

=> Noted

Not treated

R2-1813606 Correction on BFR operation Xiaomi Communications CR Rel-15 38.321 15.3.0 0404 - F NR_newRAT-Core

R2-1813857 Scaling between CSI-RS and SSB for BFR CATT discussion Rel-15 NR_newRAT-Core

R2-1813859 MAC impact due to BFR configuration in UL/SUL case CATT CR Rel-15 38.321 15.3.0 0424 - F NR_newRAT-Core

R2-1814198 CR of 38.321 on the beam change during BFR vivo CR Rel-15 38.321 15.3.0 0439 - F NR_newRAT-Core

R2-1814719 Corrections on the BFR parameters Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0462 - F NR_newRAT-Core

R2-1814941 Clarification to BFR procedure Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT

R2-1815008 BFR handling upon TAT expiry Apple, Intel Corporation CR Rel-15 38.321 15.3.0 0491 - F NR_newRAT-Core

R2-1815009 BFR handling upon TAT expiry Apple, Intel Corporation CR Rel-15 38.331 15.3.0 0427 - F NR_newRAT-Core

R2-1815182 CR on BFR timer operation in 38.321 LG Electronics Inc. CR Rel-15 38.321 15.3.0 0497 - F NR_newRAT-Core

Moved form 10.3.1.2

R2-1815455 Discussion on handling of TCI update for BFR over CBRA LG Electronics Inc. discussion NR_newRAT-Core

R2-1815457 CR on RA resource selection for BFR LG Electronics Inc. CR Rel-15 38.321 15.3.0 0514 - F NR_newRAT-Core

R2-1813845 Abnormal CBRA-BFR trigger in the initial BWP CATT discussion Rel-15 NR_newRAT-Core
Moved from 10.3.1.1

R2-1813846 Correction on abnormal CBRA-BFR trigger in the initial BWP CATT CR Rel-15 38.321 15.3.0 0418 - F NR_newRAT-Core
Moved from 10.3.1.1

BFR Configuration Update

R2-1814787 Correction for Reconfiguration of CFRA during ongoing RA Ericsson CR Rel-15 38.321 15.3.0 0471 - F NR_newRAT-Core

- Panasonic explains this was discussed last meeting
- Samsung thinks that it shouldn't be just contention free. We can just refer to the BFR config IE. Nokia and Samsung support
- LG doesn't agree. Samsung doesn't think that is the correct understanding.
- Vivo thinks that this is a corner case
- Spreadtrum thinks that the UE doesn't need to do anything, the gNB can handle it.
- Lenovo prefers this solution
- Panasonic thinks that the UE should continue with the ongoing random access.
- Qualcomm also supports the CR, the network doesn't know a procedure is ongoing. LG thinks that it shouldn't interrupt the procedure.
- Intel also thinks this should be ok.

=> The CR is revised in R2-1815644

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R2-1815644 Correction for Reconfiguration of CFRA during ongoing RA Ericsson CR Rel-15 38.321 15.3.0 0471 - F NR_newRAT-Core
- Vivo points out that there are a few other IEs impacted, IE coreset resource id and TCI state
- Samsung explains that we are sticking to the IEs impacting the random access procedure.

=> The CR is in principle agreed

R2-1815456 BFR configuration update for on-going BFR procedure LG Electronics Inc. discussion NR_newRAT-Core

=> Noted

Not treated

R2-1813684 Handling Beam Failure Recovery Configuration Update Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0414 - F NR_newRAT-Core

R2-1815118 Handling BFR Configuration Update Huawei, HiSilicon discussion NR_newRAT-Core

Moved form 10.3.1.2

Power Ramping

R2-1815954 LS from RAN1

=> Noted

R2-1815443 CR to power ramping (option1) Fujitsu CR Rel-15 38.321 15.3.0 0399 2 F NR_newRAT-Core R2-1813018
- Fujitsu explains that we will receive an LS from RAN1 soon. If DL RS is changed the power will not be ramped, if DL RS signal is not changed that power ramping will take place.

=> The CR is revised in R2-1815986

R2-1815986 CR to power ramping (option1) Fujitsu CR Rel-15 38.321 15.3.0 0399 2 F NR_newRAT-Core R2-1813018

=> revision should be updated to 4 when submitted for approval next meeting

=> The CR is in principle agreed

Not treated

R2-1814181 CR on preamble power ramping vivo CR Rel-15 38.321 15.3.0 0437 - F NR_newRAT-Core

R2-1814940 Correction to preamble power ramping Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0487 - F NR_newRAT

R2-1815281 Remaining issue with power ramping counter LG Electronics Inc. discussion Rel-15 38.321 NR_newRAT-Core

R2-1815444 CR to power ramping (option2) Fujitsu CR Rel-15 38.321 15.3.0 0510 - F NR_newRAT-Core

R2-1815445 CR to power ramping (option3) Fujitsu CR Rel-15 38.321 15.3.0 0511 - F NR_newRAT-Core

Moved form 10.3.1.2

R2-1814788 Power ramping for CSI-RS selection in Random Access Ericsson CR Rel-15 38.321 15.3.0 0472 - F NR_newRAT-Core

10.3.1.4 PHR

Corrections related to PHR

PH type (in case of configured grant+CA)

R2-1814621 Determination of PH value for CA case Lenovo, Motorola Mobility discussion Rel-15 NR_newRAT-Core R2-1812198

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R2-1814652 Correction to determination of PH value type Lenovo, Motorola Mobility CR Rel-15 38.321 15.3.0 0365 1 F NR_newRAT-Core R2-1812202
=> Noted

Discussion
- Convida thinks option 2 is not acceptable
- CATT thinks it is impossible to know the PDCCH occasion. Lenovo doesn't see an issue, this is just the point in time.
- Qualcomm supports the proposal from Lenovo and this is what we have today in the spec.
- Vivo explains that in 213 they have already specified. QC explains that RAN1 copied the MAC specs and if we change then RAN1 would also have to change so it would be easier to say with the current text.
- LG asks what happens if you get a dynamic grant. Lenovo explains that this is deterministic and it will use the dynamic
- Huawei has a similar view as CATT
- Nokia thinks the proposal is problematic and we can use RAN1 definition for UE processing time. Convida thinks this would work but then we would not have flexibility in deciding when we can build the MAC PDU.

After comeback
- Lenovo thinks we need to delay. Some companies want to keep the current behaviour.

Two issues
Timing issue
Configured grant
- Ericsson explains problem is current behaviour doesn't address configured grants and Huawei approach is not deterministic. Lenovo explains that the problem with current behaviour is delay. Huawei explains that the solutions are complementary. Convida doesn't think configured grant is a big problem. Qualcomm agrees.
- Nokia agrees with Ericsson and not sending a PHR with configured grant is not ok for the network. Huawei agrees with the networks. Convida doesn't see the delay so critical, we have prohibit timers for PHR even today so there is already some delays.
- Ericsson had proposal that the UE uses PUSCH transmission minus processing delay. Lenovo explains that it puts limitations in UE implementations and the UE has to wait until last minute. Ericsson indicates that it is minimum processing delays. Lenovo still thinks you are forcing the UE to do something. At least with Huawei you do it with the LCP.

Not treated

R2-1813860 PH type determination CATT discussion Rel-15 NR_newRAT-Core R2-1811218
R2-1813861 Correction on PH type determination CATT CR Rel-15 38.321 15.3.0 0313 1 F NR_newRAT-Core R2-1811219
R2-1813888 Further consideration on determination of the PH value type Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1813889 Correction to determination of PH value type in 38.321 Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0209 2 F NR_newRAT-Core R2-1811838
R2-1814201 Clarification of the PHR reporting vivo discussion Rel-15 NR_newRAT-Core
R2-1814202 CR of 38.321 on the PHR reporting vivo CR Rel-15 38.321 15.3.0 0440 - F NR_newRAT-Core
R2-1814450 Determination of PH value LG Electronics Mobile Research discussion NR_newRAT-Core R2-1811923
R2-1814473 PHR timing for configured grant Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core R2-1812030
R2-1814474 Correction on PHR timing for configured grant Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0354 1 F NR_newRAT-Core R2-1812031
R2-1814805 Determination of PH value in Carrier Aggregation Ericsson discussion Rel-15 NR_newRAT-Core R2-1811634
R2-1814928 Corrections on determination of PH value in Carrier Aggregation Ericsson CR Rel-15 38.321 15.3.0 0364 1 F NR_newRAT-Core R2-1811635

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PHR for skipped PUSCH

R2-1814804 PHR for uplink grant skipping Ericsson discussion Rel-15 NR_newRAT-Core
R2-1812390
=> Noted

R2-1814871 Impact of Uplink Grant Skipping on PHR Huawei, HiSilicon discussion Rel-15
=> Noted

R2-1814872 CR for Impact of Uplink Grant Skipping on PHR Huawei, HiSilicon CR Rel-15
38.321 15.3.0 0481 - F NR_newRAT-Core
=> Not treated

R2-1814453 PHR for UL grant skipping LG Electronics Mobile Research discussion NR_newRAT-Core
=> Noted

Discussion
- Lenovo doesn't understand why it is not accurate.
- Qualcomm thinks that this proposal has a serious impact on UE and the UE only knows if it will skip until last minute.
- LG supports Huawei.
- Nokia would like to have the real

Agreements:
1. At the time of determination of PH value for a serving cell, the UE MAC assumes real transmissions for all cells with grants even if any grant is skipped

Not treated

R2-1814686 PHR for skipped PUSCH transmission Lenovo, Motorola Mobility discussion Rel-15 NR_newRAT-Core R2-1812203

R2-1815552 CR on 38.321 for PHR for UL grant skipping LG Electronics Mobile Research CR Rel-15 38.321 15.3.0 0519 - F NR_newRAT-Core Late

PHR and SUL

R2-1813635 PHR and SUL Samsung discussion Rel-15 NR_newRAT-Core R2-1811142
- Lenovo indicates that RAN1 is discussing this so we can wait.
=> Noted

Agreements
=> UE reports Type 1 PH of the UL carrier for PUSCH transmission when UE transmits PUSCH on one UL carrier and SRS on the other UL carrier in a Serving Cell (while reporting PHR). RAN2 will not define new MAC CE PHR formats in Rel-15.

R2-1813636 Draft LS to RAN1 on PHR and SUL Samsung LS out Rel-15 NR_newRAT-Core
To:RAN1
=> add RAN2 will not define new MAC CE PHR formats in Rel-15
=> update action "RAN2 respectfully asks RAN1 to take these agreements into account"
=> the LS is approved in R2-1815646 with the changes above

Not treated

R2-1814451 PHR type for PCell with SUL LG Electronics Mobile Research discussion NR_newRAT-Core R2-1811941

R2-1814870 Remainning issues with PHR for SUL Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0480 - F NR_newRAT-Core

Miscellaneous

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R2-1814475 Power management backoff indication Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814476 Correction on power backoff indication due to Power management for non-CA case Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0445 - F NR_newRAT-Core
- Lenovo thinks this CR is needed
- Ericsson thinks this is good for Rel-16 and we should avoid changing the PHR formats. Nokia thinks this is important for the implementation
- LG doesn't accept this CR as this is an optimization
=> The CR is postponed

R2-1815307 Remaining issues of power management in NR Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
Proposal 1: MAC may indicate the PHY layer the priority of the MAC PDU based on the service type.
=> Consider these discussions for Rel-16
=> Noted

R2-1815308 Correction to 38.321 on power management in NR Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0508 - B NR_newRAT-Core
=> Not treated

R2-1815369 Correction to PHR MAC CE with multiple path-loss reference signals Qualcomm Inc CR Rel-15 38.321 15.3.0 0509 - F NR_newRAT-Core
=> Not treated

R2-1815370 Discussion on PHR with mutiple path-loss reference signals Qualcomm Inc discussion Rel-15 NR_newRAT-Core
- Vivo indicates that there are other solutions as well
=> Not addressed in Rel-15
=> Noted

R2-1815367 PHR reporting at coverage edge Qualcomm Inc discussion Rel-15 NR_newRAT-Core R2-1811306
=> Not addressed in Rel-15
=> Noted

10.3.1.5 SPS and Configured Grant

Corrections related to Configured grant and SPS

R2-1813594 Clarification on duplicate delivery of configured downlink assignment and uplink grant OPPO discussion
MAC entity should avoid duplicate delivery of configured grant/assignment and the associated HARQ information to HARQ entity.
- LG agrees
- Asustek also thinks that the CR is correct
=> Noted

R2-1813630 CR on duplicate delivery of configured downlink assignment and uplink grant OPPO, Huawei CR Rel-15 38.321 15.3.0 0408 - F NR_newRAT-Core
=> The CR is merged into rapporteur R2-1815635

Collision of msg3 with configured grant

R2-1814797 Configured Scheduling during Random Access Procedure Ericsson discussion Rel-15 NR_newRAT-Core
=> Noted

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R2-1814882 HARQ buffer sharing between configured grant and Msg3 MediaTek Inc. discussion Rel-15
=> Noted

R2-1813853 More collision issues with HARQ Process #0 CATT discussion Rel-15 NR_newRAT-Core R2-1811214
=> Noted

Options

Option 2: avoid CG usage of HARQ process 0 during RACH or part of the RACH procedure by a text condition (5)
Option 3: restrict the usage of HARQ processes for CG such that CG doesn't use HARQ process 0 at all (3)
Option 4: do nothing (9)

Discussion
- Huawei thinks we should exclude 1 and 3.
- Mediatek thinks we should keep it simple and just address delay aspects. Option 1 is not very useful for delay purpose.
- Oppo thinks option 4
- CATT has another solution in 3853 and QC agrees
- Nokia thinks we can do nothing for Rel-15 and treat the rest in IIoT. The RACH over CG shouldn't be blindly prioritized. Samsung agrees. Lenovo agrees.
- LG doesn't agree with the option to do nothing.
- Asustek also doesn't think this is a rare case.
- Ericsson thinks that there is an issue and we need to address.
- CATT explains that we have more issues to deal with and it is not clear how to resolve this. For example, a dynamic grant can also schedule HARQ 0 and gNB doesn't have a way to know that the UE is using HARQ 0.
- Ericsson explains that there is a consequence if we do nothing.
- CATT thinks that at least we need to add a NOTE

Agreements
- No solution to deal with collision of msg3 with configured grant on same HARQ will be specified for Rel-15. These issues can be addressed in Rel-16 WI.

=> Chair recommends CATT leads offline until next meeting to determine whether we need to add a NOTE that is it up to UE implementation

R2-1814040 CR to 38.321 on configured UL grant in TDD mode ZTE Corporation, Sanechips CR Rel-15 38.321 15.3.0 0434 - F NR_newRAT-Core
- Nokia asks if we still have "special slot"
- Huawei thinks that maybe we don't need to capture anything. ZTE explains that this is aligning with LTE.
- CATT thinks that the RAN1 specs are pretty clear. ZTE is concerned that the UE will create a PDU anyways. Ericsson thinks that a configured grant wouldn't be on a DL slot.

=> The CR is not pursued

R2-1814799 Correction on Configured Grant Confirmation MAC CE Ericsson CR Rel-15 38.321 15.3.0 0343 1 F NR_newRAT-Core R2-1811626
- ZTE doesn't think this is needed, we have enough space.

=> The CR is not pursued

Not treated

R2-1814798 Correction on Configured Scheduling during Random Access Procedure Ericsson CR Rel-15 38.321 15.3.0 0345 1 F NR_newRAT-Core R2-1811879

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R2-1813753 Rebuilt new MAC PDU from message 3 buffer by Temporary C-RNTI scheduling vivo discussion Rel-15

R2-1815300 Further discussion on configured grant during RA procedure Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1813754 Rebuilt new MAC PDU from message 3 buffer by Temporary C-RNTI scheduling vivo CR Rel-15 38.321 15.3.0 0417 - F NR_newRAT-Core

R2-1814883 CR on HARQ process ID for configured uplink grant MediaTek Inc. CR Rel-15 38.321 15.3.0 0482 - F NR_newRAT-Core

R2-1815202 Skipping CG in RA procedure LG Electronics Inc. discussion Rel-15 38.321 NR_newRAT-Core R2-1812817

R2-1815209 CR to 38.321 on skipping CG in RA procedure LG Electronics Inc. CR Rel-15 38.321 15.3.0 0398 1 F NR_newRAT-Core R2-1812849

R2-1815301 Handling of overlapped configured grant and UL grant received in RAR Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0505 - F NR_newRAT-Core

10.3.1.6 DRX

Corrections related to DRX

R2-1813593 DRX inactivity timer considering BWP switching delay OPPO discussion R2-1812668

Proposal 1 If the PDCCH indicates a new transmission (DL or UL) with BWP switching indication, start or restart drx-InactivityTimer in the first symbol after BWP switching delay defined in TS 38.133;

- Qualcomm supports the proposal as it would allow the network to configure short drx inactivity timer otherwise the timer would have to consider the BWP switching and it is undesirable
- Nokia is concerned that the gNB wouldn't know the UE switching time (has to assume worst case) and can't schedule during that time. LG has the same view as Nokia.
- Oppo thinks that there are several issues if we rely on old BWP. Nokia doesn't think it is a big deal if the timer expires, the gNB just won't schedule the UE.
- Oppo indicates that the UE is required to monitor during the switching time and this contradicts.
- Ericsson thinks it is quite clear in the specs when the timer is started. Apple explains that in RAN4 there are four different cases and it would be difficult for the network to predict which value.

=> No support
=> Noted

R2-1813627 CR on DRX inactivity timer OPPO CR Rel-15 38.321 15.3.0 0405 - F NR_newRAT-Core
=> Not treated

BFD in DRX

R2-1813886 Beam failure detection in DRX Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

Proposal 1: BFD is not performed during inactive time in the UE when DRX is enabled.

- Nokia explains that RAN4 has defined minimum requirements and it can up to 1.5 DRX cycle so we have follow that.

=> Noted

R2-1814470 BFD procedure in DRX LG Electronics Mobile Research discussion NR_newRAT-Core
=> Noted

R2-1815368 Further discussion on BFD procedure in DRX mode Qualcomm Inc discussion Rel-15 NR_newRAT-Core R2-1811308
=> Noted

Discussion

1. BFD is not performed during inactive time

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2. *BFD is performed regardless of whether the MAC is active time or not*
3. *Similar to RLM, UE assesses radio link quality of the reference signals configured for beam failure detection once per failure indication period, which is determined as the maximum between the shortest periodicity of the reference signals and the DRX period*

- Nokia thinks that we should just follow RAN4 requirements. Interdigital agrees.
- Huawei is concerned because we do not report CSI during DRX
- Asustek thinks that we shouldn't wake up to do BFD

On whether the UE has to perform BFR if BFD is detected while in DRX

- Qualcomm is concerned about the UE triggering BFR. Lenovo thinks it is a bit strange as the UE may trigger an SR and the UE should be reachable at that point in time. Nokia agrees and the UE should be reachable.

Agreements
=> UE will follow RAN4 requirements for beam failure measurements. FFS if triggers BFR remains as usual

R2-1815652 Correction to BFR procedure in C-DRX Qualcomm

- Nokia is concerned with delaying BFR recovery as the network won't be able to schedule the UE right away during. LG and Ericsson are both concerned as well. Vivo too.

=> The CR is postponed

Not treated

R2-1814796 BFD in DRX Ericsson discussion Rel-15 NR_newRAT-Core R2-1811618

R2-1814795 Corrections on BFR procedure in DRX Ericsson CR Rel-15 38.321 15.3.0 0360 1 F NR_newRAT-Core R2-1812153

R2-1815238 BFR procedure during DRX mode ASUSTeK discussion Rel-15 NR_newRAT-Core

R2-1815239 Correction to BFR procedure during DRX mode ASUSTeK CR Rel-15 38.321 15.3.0 0504 - F NR_newRAT-Core

Long/short DRX cycle

R2-1815185 Busy UE with Long DRX cycle LG Electronics Inc. discussion NR_newRAT-Core

Proposal. When drx-ShortCycleTimer expires, the MAC entity uses Long DRX cycle if drx-InactivityTimer is not running while using Short DRX cycle if drx-InactivityTimer is running.

=> Noted

R2-1815186 CR to 38.321 on Busy UE with long DRX cycle LG Electronics Inc. CR Rel-15 38.321 15.3.0 0498 - F NR_newRAT-Core

=> Noted

R2-1813887 Long or short DRX cycle Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

=> Noted

R2-1814801 Long and Short DRX cycle and CSI masking Ericsson discussion Rel-15 NR_newRAT-Core R2-1811631

=> Noted

Discussion

- Convida thinks that the network knows and can ensure it keeps the UE in the right state. Nokia agrees that network implementation can handle it. LG is concerned that there won't be enough CSI reports. Nokia thinks the network can request aperiodic CSI.

Agreements
=> RAN2 makes no further changes to Long/short DRX selection mechanism.

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R2-1814802 Avoiding using long DRX cycle (option 1) Ericsson CR Rel-15 38.321 15.3.0 0361 1 F NR_newRAT-Core R2-1812154
=> Not treated

R2-1814803 Avoiding using long DRX cycle (option 2) Ericsson CR Rel-15 38.321 15.3.0 0362 1 F NR_newRAT-Core R2-1812155
=> Not treated

R2-1814200 CR of 38.321 on CSI-RS measurement vivo CR Rel-15 38.321 15.3.0 0349 1 F NR_newRAT-Core R2-1811904
- Interdigital, Docomo, Nokia, LG don't think it's needed.
=> The CR is not pursued

R2-1814869 CR for DRX operation on CSI reporting Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0479 - F NR_newRAT-Core
- LG thinks this is common understanding so we don't need to specify
- Ericsson is not sure this is needed. Huawei thinks it would seem like we don't have to report aperiodic CSI. Ericsson thinks that this is in RAN1 specs anyways.
- CATT thinks it can be inferred by previous sentence but it can add clarify.
=> add this to the rapporteur CR R2-1815635

R2-1814469 Counting numerology dependent timer LG Electronics Mobile Research discussion NR_newRAT-Core
- Interdigital points out that we agreed to add a NOTE that clarifies how to deal with all timers in MAC, which is option 3.
=> Noted, common understanding is option 3

R2-1815549 CR on 38.331 for Counting numerology dependent timer LG Electronics Mobile Research CR Rel-15 38.331 15.3.0 0499 - F NR_newRAT-Core Late
=> Not treated

R2-1814800 SR and DRX for delay tolerant services Ericsson discussion Rel-15 NR_newRAT-Core R2-1811630
=> Noted

R2-1815305 Power saving for pending SR of delay-tolerate service Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
Proposal 1: For delay-tolerate services, SR is not transmitted during Inactive Time, in order to reduce the power consumption.
- Ericsson thinks this is a little late to discuss now and also we would have to decide what delay tolerant is, etc.
- Qualcomm is interested in the proposal but it should be up to UE implementation
=> No support for Rel-15
=> Noted

R2-1815236 Issue of monitoring INT-RNTI ASUSTeK discussion Rel-15 NR_newRAT-Core
Proposal 1: When DRX is configured, the Active Time includes the time while on next occasion of PDCCH addressed to INT-RNTI after each slot of DL transmission (e.g. DL new transmission, DL retransmission, and/or DL SPS).
- Qualcomm thinks this has marginal improvements but a lot of impact to UE power consumption for a case that doesn't happen very often. Qualcomm further explains that if the UE doesn't get the premption indication nothing breaks. LG confirms.
- Interdigital thinks that nothing prevents a UE implementation to continue listening in inactive time.
=> No support
=> Noted

R2-1815237 Correction to issue of monitoring INT-RNTI ASUSTeK CR Rel-15 38.321 15.3.0 0503 - F NR_newRAT-Core

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=> Not treated

R2-1815306 Correction to 38.321 on the power saving for pending SR of delay-tolerate service Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0507 - B NR_newRAT-Core
=> Not treated

R2-1815550 CR on 38.321 for PDCCH monitoring upon flexible TDD LG Electronics Mobile Research CR Rel-15 38.321 15.3.0 0518 - F NR_newRAT-Core Late
=> Not treated

R2-1814775 Correction on PDCCH monitoring for when DRX is not configured Ericsson CR Rel-15 38.321 15.3.0 0466 - F NR_newRAT-Core
Moved from 10.3.1.1
=> Not treated

10.3.1.7 MAC PDU format

Corrections related to MAC PDU and MAC CE formats, if any

R2-1813963 Correction to PUCCH spatial relation Activation Deactivation MAC CE Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0429 - F NR_newRAT-Core
- LG thinks this is an optimization
- Samsung doesn't want non-backward compatible changes.
- Huawei explains that this is aligning the specs and doesn't believe there is a backward compatible.
- Ericsson agrees with Samsung and we don't need to duplicate the information

=> The CR is not pursued

R2-1814987 CR on TCI State Indication for UE-specific PDCCH MAC CE to support CORESET#0 Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0489 - F NR_newRAT-Core
=> Not treated

10.3.1.8 Other

Other corrections on topics not included in the detailed agenda items, e.g. PDCP duplication, LCP, HARQ, SR, BSR.

R2-1814887 CR on 36.321 for clarification of UL HARQ process for SUO Case 1 Mediatek
- Ericsson has some comments on wording

=> The CR is revised in R2-1815649

R2-1815649 CR on 36.321 for clarification of UL HARQ process for SUO Case 1 Mediatek
=> Consider deleting "and if the other MAC entity is an NR MAC entity"
=> The CR is postponed

Data activity monitoring
Not treated

R2-1813634 Introduction of data inactivity monitoring Samsung CR Rel-15 38.321 15.3.0 0301 1 F NR_newRAT-Core R2-1811076

R2-1814829 Data inactivity monitoring Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1814831 Introduction of data inactivity monitoring Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0476 - F NR_newRAT-Core

R2-1815187 CR to 38.321 on dataInactivityTimer in NR LG Electronics Inc. CR Rel-15 38.321 15.3.0 0499 - F NR_newRAT-Core

QoS flow relocation
Not treated

R2-1814216 BSR at QoS flow relocation Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0441 - F NR_newRAT

R2-1814217 Priority handling at QoS flow relocation Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0442 - F NR_newRAT

SR/BSR

R2-1814715 Correction on the per SR configuration procedure Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0458 - F NR_newRAT-Core
- LG doesn't support. This problem would only occur if the prohibit timer is not configured and this is not a good configuration. Huawei thinks that this is not a rare case.
- Interdigital thinks that the current behaviour is the right one.
- Samsung thinks the CR clarifies a few things but the reason behind it is not correct.
- Huawei would like to confirm that RAN2 understands that increasing SR counter multiple times when only one SR is transmitted is not appropriate behaviour.

=> The CR is postponed

R2-1814716 Correction on BSR triggered SR Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0459 - F NR_newRAT-Core
- LG agrees with the intention. CATT and Samsung see that there may be a confusion. Ericsson doesn't think this is necessary. Nokia has same view as Ericsson. Convida agrees and it is clear that we didn't mean all, as then we would have said all.

=> The CR is postponed

R2-1815206 Triggering condition of logicalChannelSR-DelayTimer Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
- Ericsson seems to remember that we intentially didn't align with LTE
- Samsung thinks it makes sense
- Lenovo and Nokia think that it is already clear as the trigger is for "a logical channel"
- Intel and Qualcomm also not sure about the need
- CATT thinks that there is no disadvantage to clarify. Huawei would like to prevent the UE start the timer.

=> No support for the need for change

=> Noted

R2-1815207 CR on the triggering condition of logicalChannelSR-DelayTimer Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0501 - F NR_newRAT-Core

=> Not treated

R2-1815458 CR for alignment of SR and BSR cancellation conditions LG Electronics Inc. CR Rel-15 38.321 15.3.0 0515 - F NR_newRAT-Core
- Ericsson points out that truncated BSR wouldn't include "which contains buffer status up to (and including) the last event that triggered a BSR (see subclause 5.4.5) prior to the MAC PDU assembly.". Samsung points out that Ericsson is right but we did agree last meeting

=> The CR is merged in the editorial rapporteur CR

R2-1815484 Currection to BSR procedure with available UL-SCH resources Qualcomm Inc CR Rel-6 38.321 15.3.0 0516 - F UTRA_DL_IM-Core
- LG thinks this can be handle by proper network configuration. QC thinks that the time between grant and transmission can be quite long
- CATT supports
- Nokia agrees with LG from MAC point of view we don't need to know when it is transmitted.
- Interdigital thinks that there may be a new motivation to do this, due to msg3 transmission
- Oppo thinks that this could occur in LTE, so what's the reason to change it now. CATT thinks its because of the dynamic values of k.
- Ericsson agrees with LG And Nokia and this results in further ambiguity. If there would be a problem there would be interoperability issues.

=> The CR is not pursued

R2-1813748 Clarification on Priority of LCG in BSR vivo CR Rel-15 38.321 15.3.0 0415 - F NR_newRAT-Core

- LG doesn't think this is not needed. Samsung thinks it is not essential. Intel and Ericsson also think it is obvious

=> The CR is not pursued

Not treated

R2-1814713 CR on SR triggered RA – Option 1 Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0456 - F NR_newRAT-Core

R2-1814714 CR on SR triggered RA – Option 2 Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0457 - F NR_newRAT-Core

R2-1815208 CR on configuration of BSR parameters Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0502 - F NR_newRAT-Core

LCH-to-Cell restriction

R2-1814709 Remaining issues on LCH-to-Cell restriction Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1811381

=> Noted

R2-1814710 CR on duplication for 38.300 Huawei, HiSilicon CR Rel-15 38.300 15.3.0 0101 - F NR_newRAT-Core

- Nokia points out that the guideline is – the title should not include CR or spec number

=> The CR is postponed and handled next meeting

R2-1814711 Correction to LCH-to-Cell restriction for 38.321 Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0454 - F NR_newRAT-Core

=> The CR is postponed and handled next meeting

R2-1814769 LCP restrictions in case of non-duplication Ericsson, Lenovo discussion Rel-15 NR_newRAT-Core

=> Noted

R2-1815002 Clarification on LCH-to-cell restriction Apple, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

=> Noted

Not treated

R2-1814768 Corrections to LCH restriction when duplication deactivated Ericsson, Lenovo CR Rel-15 38.321 15.3.0 0464 - F NR_newRAT-Core

R2-1814770 Corrections to LCH-to-cell restrictions Ericsson, Lenovo CR Rel-15 38.321 15.3.0 0465 - F NR_newRAT-Core

R2-1815003 Clarification on LCH-to-cell restriction Apple, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 38.321 15.3.0 0490 - F NR_newRAT-Core

R2-1815004 Clarification on LCH-to-cell restriction Apple, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 38.300 15.3.0 0104 - F NR_newRAT-Core

Options for CA:

1. Keep agreement that for CA we lift the restriction (11)
2. Restriction is kept after deactivation (2)
3. After deactivation - the logical channel restriction of the logical channels should be the combination of the restrictions configured for both the primary and secondary logical channels (10))

Discussion:

- Mediatek asks what happens to the data pending transmission. That RLC entity is stuck.
- Intel supports apple's proposal
- LG thinks that only thing still to discuss is DC.

- Nokia and QC point out that last meeting were negative because they didn't want an ASN.1 change.
- ZTE agrees with option 3 as well
- LG that the only benefit of option 3 is less RRC signalling so don't support
- Lenovo thinks that we need to re-discuss it

Agreements:

1. LCH-to-Cell restriction can be configured for non-duplication purpose in DC duplication scenario.
2. When DC duplication is deactivated, the configured LCH-to-Cell restriction still applies.

Not treated

R2-1815060 Remaining issue on cell restrictions for DC duplication Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1815170 Clarification on LCH-to-cell restriction for DC duplication LG Electronics Inc. discussion Rel-15 NR_newRAT-Core

R2-1815171 38.321 CR on Clarification on LCH-to-cell restriction for DC duplication LG Electronics Inc. CR Rel-15 38.321 15.3.0 0494 - F NR_newRAT-Core

Miscellaneous

R2-1815302 Leftover of HARQ operation for bundling Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
- CATT thinks this is already in RAN1 so no need to repeat here

=> Wait for RAN1 to determine if anything additional is needed in RAN2
=> Noted

R2-1815303 Clarification on bundling operation for Msg3 Huawei, HiSilicon, CR Rel-15 38.321 15.3.0 0506 - F NR_newRAT-Core
=> Not treated

R2-1815304 LS on HARQ operation for bundling Huawei, HiSilicon LS out Rel-15 NR_newRAT-Core To:RAN1
=> Not treated

R2-1813633 Correction on the handling of measurement gaps for DL SPS Samsung CR Rel-15 38.321 15.3.0 0296 1 F NR_newRAT-Core R2-1811062
=> Delete "on PUCCH and PUSCH"
=> Remove first change
=> Last change can be merged in the rapporteur editorial CR

R2-1813862 Correction on UL grant handling by HARQ process CATT CR Rel-15 38.321 15.3.0 0425 - F NR_newRAT-Core
- LG doesn't think this is only for non-adaptive
- Huawei doesn't share the same understanding as CATT
- Interdigital doesn't think anything is broken

=> The CR is not pursued

R2-1813863 Correction on PDSCH/PUSCH instance denomination CATT CR Rel-15 38.321 15.3.0 0311 1 F NR_newRAT-Core R2-1811216
=> The CR is not pursed

R2-1813864 CR on PCH reception OPPO CR Rel-15 38.321 15.3.0 0426 - F NR_newRAT-Core
- LG thinks we should just refer to RAN1. Interdigital points out that the second line points out to PDCCH so it is clear. Lenovo and Ericsson also think nothing is needed.

=> The CR is not pursued

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R2-1813865 Miscellaneous Corrections for 38.321 OPPO CR Rel-15 38.321 15.3.0 0427 - F NR_newRAT-Core
=> The rapporteur will make the numbering consistent in the rapporteur CR
=> Rapporteur will look at bringing the note to the editorial
=> Noted

R2-1813870 Correction on Restart of retxBSR-Timer Spreadtrum Communications CR Rel-15 38.321 15.3.0 0428 - F NR_newRAT-Core
- Ericsson doesn't think this is needed
=> The CR is not pursued

R2-1814704 Optimization on the use of sCellDeactivationTimer and bwp-InactivityTimer Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> Not treated

R2-1814707 Correction to Bj update during LCP procedure Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0453 - F NR_newRAT-Core
- InterDigital indicates that we had a long discussion on this and this was the compromise at the time in November.
- Huawei asks what is every instance. Ericsson explains understanding is that you do this at the beginning of every LCP procedure
=> The CR is not pursued

R2-1814708 CR on the missing LCP mapping restrictions Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0325 1 F NR_newRAT-Core R2-1811378
- Interdigital, ericsson, and Samsung don't think the change is needed
=> The CR is not pursued

R2-1814717 CR on BSR for optional LCG case Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0460 - F NR_newRAT-Core
- LG points out the BSR would only be triggered "*retxBSR-Timer* expires, and at least one of the logical channels which belong to an LCG contains UL data, in which case the BSR is referred below to as 'Regular BSR'
=> The CR is not pursued

R2-1814790 On Measurement Gaps for URLLC Ericsson discussion Rel-15 NR_newRAT-Core R2-1811610
=> Proposal too late for Rel-15
=> Noted

HARQ RTT Timer

R2-1814195 Clarification on the MAC timer vivo discussion Rel-15 NR_newRAT-Core
Moved from 11.3.1.1
=> Not treated

R2-1814196 CR of 38.321 on the MAC timer vivo CR Rel-15 38.321 15.3.0 0438 - F NR_newRAT-Core
Moved from 11.3.1.1
=> Not treated

10.3.2 RLC

Corrections related to RLC

10.3.3 PDCP

Corrections related to PDCP

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R2-1814199 CR of 38.323 on the ROHC vivo CR Rel-15 38.323 15.3.0 0016 - F NR_newRAT-Core
- LG explains that header compression doesn't need to be in order. Ericsson and Samsung have same understanding

=> The CR is not pursued

R2-1814328 Unnecessary deciphering in PDCP receive operation Samsung Research America discussion Rel-15 NR_newRAT
- LG thinks that we don't need to decipher duplicate packets and can be handled by UE implementation. Samsung explains that it is also for out of window. LG admits that there may be some inefficiencies but it can be handled by UE implementation.
- Ericsson, Nokia, Lenovo agrees with LG. Samsung still wonders why we have inefficient specs.

=> The understanding is that the UE doesn't have to decipher duplicated and out of window packets
=> No support to deal with this in specifications
=> Noted

R2-1814330 Unnecessary deciphering in PDCP receive operation Samsung Research America CR Rel-15 38.323 15.3.0 0018 - C NR_newRAT

=> Not treated

R2-1814587 ROHC continuation Samsung Research America CR Rel-15 38.331 15.3.0 0359 - F NR_newRAT Withdrawn

=> Not treated

R2-1814588 ROHC continuation Samsung Research America CR Rel-15 38.331 15.3.0 0360 - F NR_newRAT

=> Not treated

R2-1815129 Open issues in PDCP suspend procedure LG Electronics Inc. discussion Rel-15 NR_newRAT-Core

Proposal1: Decide the name of the new PDCP procedure; "PDCP suspend", "PDCP reset", or other name.
- Ericsson prefers suspends. Samsung has some concerns about suspend as it is used in RRC under a different context. Mediatek thinks we should use the same terminology as we invoke from suspend. Docomo shares Samsung view. Ericsson explains that reset is when you clear everything so this is even more strange.

Proposal2: Decide whether the new PDCP procedure is applied to only AM DRBs, or applied to both AM DRBs and UM DRBs.
- Ericsson doesn't see the reason to limit and should support both. Mediatek thinks that UM is important because it is delay sensitive.

Proposal3: Decide whether the transmitting PDCP entity shall discard stored PDCP SDUs during the new PDCP procedure.
- Ericsson thinks that we should try to make it lossless so we shouldn't discard. Samsung doesn't thinks there is any beneficial case to keep PDCP PDUs.
- Qualcomm thinks that if we go to RRC suspend we shouldn't have anything in the buffer. LG also thinks that SDU should not be discarded. Mediatek shares QC's view and it would be easier to just discard. Huawei thinks that there will be cases where the UE has packets and we shouldn't discard SDUs.
- Mediatek is concerned this implies that discard timer needs to be configured. Huawei thinks this is up to network, if there is a requirement to discard the network will configure a discard timer.

Proposal4: Decide whether to specify "the transmitting PDCP entity for UM DRBs and AM DRBs shall discard stored PDCP PDUs" during the PDCP re-establishment.
- Ericsson doesn't think we need to specify. Samsung has the same view

Proposal7: Confirm that the LTE RRC Suspend procedure should be changed for eLTE case while not changed for NB-IoT case.

=> Noted

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Agreements:
1. Assume for now PDCP "suspend"
2. PDCP suspend is applied to both AM DRBs and UM DRBs.
3. PDCP SDUs are not discarded. PDCP PDUs will be discarded.
4. Do NOT specify "the transmitting PDCP entity for UM DRBs and AM DRBs shall discard stored PDCP PDUs" during the PDCP re-establishment.
5. UE behavior at RRC Resume; i.e. re-establish PDCP entities and provide indication of drb-ContinueROHC.
6. Remove the text "restore the PDCP state" from the RRC specification.

R2-1815130 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 38.323 15.3.0 0021 - F NR_newRAT-Core
=> Delete first change and delete first sentence in the new section
=> Delete "SDU" from discard sentence
=> The CR is in principle agreed in R2-1815647 with the changes above

R2-1815131 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 38.331 15.3.0 0448 - F NR_newRAT-Core
=> Use "Indicate PDCP suspend"
=> Bring line under suspend all SRBs and DRBs
=> Delete "AM DRB"
=> Try to align the text related to drb-ContinueROHC with LTE
=> The CR is revised in R2-1815648

R2-1815648 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 38.331 15.3.0 0448 - F NR_newRAT-Core
[CBF - Offline discussion 522]

R2-1814773 PDCP discard timer Ericsson discussion Rel-15 NR_newRAT-Core
=> No support
=> Noted

Not treated

R2-1814310 PDCP reset Samsung Research America CR Rel-15 38.323 15.3.0 0017 - C NR_newRAT

R2-1814315 PDCP reset Samsung Research America CR Rel-15 38.331 15.3.0 0310 - C NR_newRAT

R2-1814772 PDCP handling of RRC suspend Ericsson discussion Rel-15

R2-1814771 Introduction of PDCP suspend to PDCP Ericsson CR Rel-15 38.323 15.3.0 0019 - F NR_newRAT-Core

R2-1814774 Introduction of PDCP suspend to RRC Ericsson CR Rel-15 38.331 15.3.0 0377 - F NR_newRAT-Core

10.3.4 SDAP

Corrections related to SDAP

R2-1813677 Impact of Option 4/7 and NR-NR DC on SDAP specification MediaTek Inc., Qualcomm Inc., Intel Corporation discussion Rel-15 NR_newRAT-Core
=> The current SDAP specification can be used as baseline for the Rel-15 late-drop and no new proposals specific to Option 4/7 and NR-NR DC need to be discussed
=> Noted

R2-1814218 Priority handling at QoS flow relocation Nokia, Nokia Shanghai Bell CR Rel-15 37.324 15.1.0 0009 - F NR_newRAT
=> Not treated

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R2-1814214 Relocating QoS Flows from the Default DRB Nokia discussion Rel-15 NR_newRAT-Core

Proposal 1: trigger a BSR at QoS flow remapping.

Proposal 2: give the old bearer the same priority as the new bearer until the end marker is transmitted.

- Mediatek has some sympathy but unfortunately it is quite late and there are some shortcoming to this exact solution. This also has quite a bit of impact to different layers.
- LG doesn't understand the need for this approach.
- Ericsson, QC, Samsung also finds it interesting but for Rel-16. Nokia understands but just wants to highlight the limitations with the current relocation procedure

=> There is sympathy but for Rel-16
=> Noted

R2-1814219 RDI and Data Forwarding Nokia, Nokia Shanghai Bell discussion NR_newRAT

Proposal: the RDI of all forwarded SDAP PDUs is set to zero in the source gNB.

- Mediatek acknowledges the issue but thinks the most natural place to do this is in the target as it needs to process packets anyways. CATT also thinks the target should make the decision. Nokia is fine with the target approach as well.
- LG thinks that gNB can avoid this
- Huawei this issue can happen within the same gNB as well and a reasonable gNB wouldn't perform gNB mapping. Mediatek doesn't see why the target gNB cannot change the mapping. Ericsson agrees with Huawei.

=> Noted

R2-1814220 RDI handling for data forwarding at handover Nokia, Nokia Shanghai Bell CR Rel-15 38.300 15.3.0 0093 - F NR_newRAT
=> The CR is revised in R2-1815931

R2-1815931 RDI handling for data forwarding at handover Nokia, Huawei, Ericsson, Nokia Shanghai Bell CR Rel-15 38.300 15.3.0 0093 - F NR_newRAT
=> The CR is agreed

R2-1814221 LS on RDI for Data Forwarding Nokia LS out Rel-15 NR_newRAT To:3GPP TSG RAN WG3
=> Not treated

R2-1814309 CR on UE handlings of reflective QoS Huawei, HiSilicon CR Rel-15 37.324 15.1.0 0010 - F NR_newRAT-Core

- Nokia indicates that we don't typically do this in the spec as it will impact the readability of the spec. Ericsson agrees

=> The CR is not pursued

R2-1815384 Reflective mapping in case AS reflective QoS is not supported SHARP Corporation CR Rel-15 37.324 15.1.0 0011 - F NR_newRAT-Core
=> The CR is not pursued

10.4 Stage 3 control plane

10.4.1 NR RRC

10.4.1.1 TS

38.331 rapporteur inputs, if any.

R2-1814959 38331 Rapporteur RIL list after email discussion [103#20] Ericsson discussion Rel-15 NR_newRAT-Core

- Provided just for information

=> Noted

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R2-1814958 Miscellaneous minor corrections Ericsson CR Rel-15 38.331 15.3.0 0409 - F NR_newRAT-Core
=> Other minor correction could also be captured in this CR before November
=> Revised in R2-1815808 (Offline discussion 09)

R2-1815808 Miscellaneous minor corrections Ericsson CR Rel-15 38.331 15.3.0 0409 1 F NR_newRAT-Core
=> To be resubmitted to next meeting

10.4.1.3 Connection control procedures

No documents should be submitted to 10.4.1.3. Please submit to 10.4.1.3.x.

10.4.1.3.1 Corrections to connection control for EN-DC (early drop)

Corrections related to connection control procedures for EN-DC

10.4.1.3.1.1 Corrections to L1 Parameters

Including output of email discussion [103#46][NR] Restriction on the total RRC configuration size (MediaTek)

Initial BWP (incl. CORESET#0 and commonControlResourceSet)

Related to incoming reply LS from RAN1.
Discussion points:
a) How to inform UEs about the CORESET#0 (-size) in EN-DC-only cells (not broadcasting SIB1)
b) Which aspects of the L1 LS to capture in RRC... and how (e.g. when to apply the locationAndBandwidth advertised in SIB1)

R2-1814978 Bandwidth configuration for initial BWP Ericsson
P3
- Huawei think there is a problem with the RAN1 agreement. It is possible that the UE doesn't support the BW from SIB1 but the network will not know this, so propose the UE only applies the BW from SIB1 after the first reconfiguration.
- Qualcomm agrees with Ericsson proposal that nothing needs to be specified.
- Vivo wonder in the Initial DL BW in SIB is mandatory for all UEs.
- Nokia think the problem of the UE not support the BW is a real issue but it is a different issue.

P5
- Ericsson think all the alternatives work at least for the EN-DC cell case and it is a matter of taste which to select.
- Qualcomm think RAN1 need a response and would be ok with solution 1 where RAN1 specify the details.
- Intel also agree solution 1 is the way to go. Samsung also support this and think nothing is broken in RAN2 specs
- ZTE also supports solution 1
- Huawei think that solution 1 risks more changes in RAN1 specs, and prefer alternative 2 to avoid changes to RAN1 specifications.
- Vivo also prefer to solve this problem in RAN2. Dedicated signalling can configure CORESET#0
- DOCOMO think it doesn't matter which spec is impacted. Originally the problem was caused because they didn't consider the EN-DC cell and suggest they can resolve.
- ZTE think that there is still an issue to configure a CORESET#0 for an NSA only PSCell where random access needs to be performed. Could be resolved by dedicated signalling of CORESET#0 or by another CORESET. Intel think this can be resolved with existing signalling in RAN2 but the proposed changes would be an optimisation. The network can use the common control resource set to configure the RA reception resources.

Agreements
1 Capture in the field description of the initialDownlinkBWP in DownlinkConfigCommonSIB that "The network configures the locationAndBandwidth so that the initial downlink BWP contains the entire CORESET#0 of this serving cell in the frequency domain."

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2 Capture in the field description of the commonControlResourceSet that “The network configures the commonControlResourceSet in SIB1 so that it is confined in the bandwidth of CORESET#0”.
3 Capture in the field description of initialDownlinkBWP that “The locationAndBandwidth is applicable after reception of Msg4.”
4 The rules how the UE determines the DCI sizes based on CORESET#0 are not captured in the RRC specification since this is clearly the scope of the L1 specs.
5 The problem that the UE is not configured with CORESET#0 should be resolved by RAN1 and captured in their specs, e.g. UE determines DCI 1-0 size by CORESET#0 if configured and by the width of the initial DL BWP otherwise.

=> Draft LS in R2-1815841 to RAN1 to inform them of our agreements (Offline discussion 30, Ericsson)
=> CR#0502 to 38.331 to be provided in R2-1815842 (Offline discussion 30, Ericsson)

R2-1815842 Bandwidth configuration for initial BWP Ericsson CR Rel-15 38.331 15.3.0 0502 - F NR_newRAT-Core
=> Agreed in principle

R2-1815841 Reply LS on bandwidth configuration for initial BWP Ericsson LS out Rel-15 NR_newRAT-Core To:RAN1
=> Remove " e.g. in SSB-less cells "
=> Approved in R2-1815861

R2-1813655 Remaining issues for option2 for 6-1 UEs Huawei, HiSilicon
R2-1813656 CR for TS38.331 on option2 for 6-1 UEs Huawei, HiSilicon
R2-1813651 Discussion on serving cell without CORESET#0 Huawei, HiSilicon
R2-1814606 CR for TS38.331 on CORESET#0 Huawei, HiSilicon
R2-1813652 Draft reply LS on bandwidth configuration for initial BWP Huawei, HiSilicon
R2-1813676 Further Clarification on Initial DL BWP MediaTek Inc.
R2-1813755 Clarification on initial BWP in SIB1 vivo
R2-1813756 Clarification of PDCCH-ConfigCommon.controlResourceSetZero(option1) vivo
R2-1813757 ControlResourcesetzero configuration by PDCCH-config (option2) vivo
R2-1813770 Corrections to BWP configuration Nokia, Nokia Shanghai Bell
R2-1813771 Corrections to BWP configuration Nokia, Nokia Shanghai Bell
R2-1813776 CR on configuration of initial DL BWP MediaTek Inc.
R2-1813940 Further clarification on single BWP operation(Option2) ZTE Corporation, Sanechips
R2-1814225 Corrections for initial BWP and CommonControlResourceSet configurations Qualcomm Incorporated
R2-1814967 Corrections on BWP op1/op2 Intel Corporation, NTT DoCoMo Inc
R2-1815486 Consideration on initial DL BWP and CORESET#0 ZTE Corporation, Sanechips

- Nokia thinks this makes sense for the EN-DC case ad we don't need to stick to the alignment between broadcast and dedicated.
- Ericsson think this would be the option 3 for the previously discussed issue. ZTE think for the DCI issue option1 is ok, this is similar to option 3 for the DCI case but not exactly the same.
- Samsung think the current cell can support this case without having to configure a CORESET 0 which would be non backwards compatible.
- MediaTek think if we go with this approach it could be used to resolve the DCI case as well.
- ZTE think the spec already says it is possible to configure a CORESET#0 in dedicated signalling.
- Intel think it is an change in the UE is it gets a CORESET#0 in dedicated signalling when it was not present in the MIB.
- Nokia think it is clear for EN-DC that the UE only needs SFN from the MIB. Also think there is an issue that the minimum number of CORESETs is 1.

=> Offline discussion to conclude (Offline discussion 29, ZTE)

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R2-1815946 [Offline discussion 29] Common coreset for a NSA-only (P)Scell discussion Rel-15 NR_newRAT-Core ZTE Corporation (Rapporteur)

Agreements
1: Keep the option to configure controlResourceSetZero/searchSpaceZero in pdcch-ConfigCommon within ServingCellConfigCommon, even if SIB1 is not broadcast while SSB is present (Note that this does not remove the possibility to configure different commonControlResourceSets (one for each DL BWP)).
2: Clarify that, if during MIB reception the UE detects that SIB1 is not transmitted in the cell, the UE shall not release the configuration for ControlResourceSetZero and searchSpaceZero for the same cell, if previously received via dedicated signalling.

R2-1815968 CORESET#0 configuration when SIB1 is not broadcast ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0503 F NR_newRAT-Core
=> Add the SSB aspect
=> Revised in R2-1816049

R2-1816049 CORESET#0 configuration when SIB1 is not broadcast ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0503 F NR_newRAT-Core
=> Agreed in principle

R2-1813939 CR for ServingCellConfigCommon in 38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0232 - F NR_newRAT-Core
R2-1813822 Correction on searchSpaceZero and controlResourceSetZero configuration CATT CR Rel-15 38.331 15.3.0 0218 - F NR_newRAT-Core

RAN4: Channel Bandwidth

Whether to change or add signalling for indicating channel bandwidth:

R2-1814227 Channel Bandwidth Signalling Qualcomm Incorporated
- Nokia thinks this list is only use to determine where the PRB grid applies, but the UE just uses the BW from the BWP information.
- Ericsson understand that this list was added by RAN4 to be used to determine the carrier bandwidth and the value can be same or different from the BW in the BWP.
- Huawei understand that RAN4 LS asked us to indicate the channel BW to the UE and should not be per SCS. The transmission BW is per SCS.
- Ericsson under the scs-SpecificCarrierList is only for the purpose of defining the channel BW.

Agreements
1: To add UE specific field configuring RAN4 defined channel bandwidth per subcarrier spacing in ServingCellConfig.
2: To specify that the UE considers the cell is accessible if the UE supports the:
- bandwidth signalled by pdcch-ConfigSIB1 in MIB
FFS the bandwidth of at least one SCS in the scs-SpecificCarrierList in SIB1
FFS bandwidth signalled by locationAndBandwidth in SIB1
3 If the cell is not accessible according to 2 above then the UE treats the cell as barred.

=> Offline discussion to progress the 2 FFS points (Offline discussion 32, Qualcomm)
- Update from offline: Proposal to have email discussion

✉ **[103bis#14][NR] Channel Bandwidth Signalling (Qualcomm)**
Discuss and resolve the FFS points from the discussion in the meeting.
Draft a CR to capture the meeting agreements and the FFS points
Intended outcome: Draft CR to the next meeting
Deadline: Thursday 2018-11-01

=> Draft LS in R2-1815843 to RAN4 to explain what we have added in order to signal the channel BW and ask if they have any concerns. (Offline discussion 31, Qualcomm)

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R2-1815843 [DRAFT] Reply LS on RAN4 design on channel bandwidth Qualcomm LS out Rel-15 NR_newRAT-Core To:RAN4

✉ **[103bis#01][NR] LS to RAN4 on channel bandwidth (Qualcomm)**
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18

R2-1813653 Signalling of channel bandwidth Huawei, HiSilicon

R2-1813654 CR for TS38.331 on the signalling of channel bandwidth Huawei, HiSilicon

Email Discussion [103#46]: RRC Configuration Size

R2-1813678 Report of email discussion [103#46][NR] MediaTek Inc.

- Apple suggest we don't need to discuss this but instead we can just enable large RRC message transmission.
- Nokia think we should start from the overall message size limitation.
- DOCOMO think it will be difficult to identify individual fields that need restriction. Also we should be more concerned about the message size for UEs based on their capability.
- Huawei think option 2 is complex for the network to ensure that this overall configuration limit is not exceeded. Also wonder if it might change in future releases. Nokia think the network has to care about message size limit.

Agreement
1: The reference for the RRC buffer size (size of the overall configuration in the UE as if the configuration was represented in a single RRC message) is defined in 38.306 as an absolute size in Kbytes
2 Starting point is that RRC buffer size is 45 Kbytes (implication of this value to be analysed and the number finalised at RAN2#104)
3 Support of larger than 9kbyte RRC messages can be considered in a future release.

=> CR for the above agreements to be submitted to next meeting.
=> Specific proposals to limit a few individual IEs could still be discussed based on further analysis of message size limitations.
=> Draft LS in R2-1815844 to RAN1 to inform them of our agreements and to ask further questions to help with our analysis (exact questions to be finalised offline) (Offline discussion 33, MediaTek)

R2-1815844 [DRAFT] LS on the total RRC Configuration size Mediatek LS out Rel-15 NR_newRAT-Core To:RAN1
=> Approved in R2-1816024

R2-1813722 [Draft] LS on the total RRC Configuration size MediaTek Inc.

R2-1813873 RRC configuration Message Size Reduction Spreadtrum Communications

R2-1813873 RRC configuration Message Size Reduction Spreadtrum Communications discussion Rel-15

R2-1815005 Huge RRC message transmission Apple discussion Rel-15 NR_newRAT-Core

Cross-Carrier Scheduling

Related to incoming LS from RAN1

R2-1814188 On the search space of cross carrier scheduling vivo
P1

- Huawei agree that only an update to the field description is needed.
- Ericsson think the search space should only be configured in the scheduled cell which the UE would use in the CORESET of the scheduling cell. Qualcomm agree with this approach. Intel think the scheduling cell would then have search spaces for both the scheduled cell and for its own use, and this is a burden on the UE.

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- Vivo agree with the Intel statement.
- Samsung also have the same view as Intel.

=> Offline discussion to conclude (Offline discussion 34, Vivo)

R2-1816003 [DRAFT] LS on the search space of cross-carrier scheduling vivo LS out Rel-15 NR_newRAT-Core To:RAN1

=> Revised in R2-1816050

✉ **[103bis#02][NR] LS on the search space of cross-carrier scheduling (Vivo)**
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18

R2-1813596 PDCCH configuration for cross carrier scheduling NTT DOCOMO, INC.

R2-1814848 CR for TS38.331 on CrossCarrierScheduling Huawei, HiSilicon

R2-1814849 [DRAFT] Reply LS to RAN 1 on crossCarrierScheudling Huawei, HiSilicon

R2-1814974 Correction to cross carrier scheduling Ericsson

R2-1814975 Draft Reply LS on cross carrier scheduling Ericsson

Rate Matching

Follow-up changes due to removal of rate-match patterns from ServingCellConfigCommonSIB in last meeting

R2-1813942 Introduction of cell level rate match parameters in servingCellConfig ZTE Corporation, Sanechips

- Qualcomm think it is not necessary to dummy the parameters in servingCellCOnfigCommon so that it doesn't cause a NBC change for EN-DC UEs.
- Huawei has the same understanding as Qualcomm.
- ZTE think this discusses the cell level rate matching parameters and not the existing DWP rate matching parameters.
- Ericsson think it is difficult to remove from the servingCellCOnfigCommon at this time.
- Intel agree to keep the information in servingCellCOnfigCommon but he network needs to ensure the content is the same.

=> Do not remove the parameters from servingCellConfigCommon
=> Conclude offline how the network knows that the UE supports the new fields in servingCellConfig
=> Revised in R2-1815845 (Offline discussion 35)

R2-1815845 Introduction of cell level rate match parameters in servingCellConfig ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0234 1 F NR_newRAT-Core

=> Postponed

SSB Positions in Burst

Allowing for more SSB beams in <6 GHz
(related to incoming LS from RAN plenary)

R2-1814419 SSBPositionsInBurst misalignement with RAN1 Nokia, Nokia Shanghai Bell

- This is also NBC and how does the network knows the UE supports it.

=> Add changes also for SSB-ToMeasure
=> Add RAN1 spec reference in all appropriate locations
=> Add RAN1 CR to the coversheet as other specs affected
=> Revised in R2-1815846 (Offline discussion 36)

R2-1815846 SSBPositionsInBurst misalignement with RAN1 Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0320 1 F NR_newRAT-Core

=> Agreed in principle

R2-1815267 CR to TS 38.331 for supporting maximum 8 SS/PBCH blocks for unpaired spectrum beyond 2.4GHz CMCC

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Matching patterns in ServingCellConfigCommon and ServingCellConfigCommonSIB:
(related to incoming LS from RAN1)

R2-1814972 Clarification on ssb-PositionsInBurst Ericsson
=> Agreed in principle
=> Can discuss offline whether to add a parameter ssb-PositionsInBurst also in servingCellConfig in Rel-15 (Offline discussion 37, Nokia)
- CR provided in R2-1815999

R2-1814988 Finalization of ssb-PositionsInBurst mismatch issue Nokia, Nokia Shanghai Bell

R2-1814989 CR on ssb-PositionsInBurst mismatch issue Nokia, Nokia Shanghai Bell
=> Revised in R2-1815999

R2-1815999 CR on ssb-PositionsInBurst mismatch issue Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0426 1 F NR_newRAT-Core
=> Postponed

R2-1816033 [DRAFT] Further reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon Nokia LS out Rel-15 NR_newRAT-Core To:RAN1
=> Approved in R2-1816055

R2-1814852 CR for TS38.331 on ssb-PositionInBurst Huawei, HiSilicon

TDD Configuration

Whether the NW shall provide tdd-UL-DL-ConfigCommon in ServingCellConfigCommonSIB:

R2-1815361 Conditional presence correction for tdd-UL-DL-ConfigCommon in ServingCellConfigCommonSIB Samsung Electronics

R2-1814976 Correction to TDD configuration in SIB1 Ericsson
=> Agreed in principle

Power boosting for pi/2 BPSK

R2-1815373 Introduction of power boosting indicator for pi2BPSK waveform IITH, IITM, CeWIT CR Rel-15 38.331 15.3.0 0474 - B NR_newRAT-Core
=> Revised to R2-1815840

R2-1815840 Introduction of power boosting indicator for pi2BPSK waveform IITH, IITM, CeWIT CR Rel-15 38.331 15.3.0 0474 1 B NR_newRAT-Core
=> Reference to RAN4 spec to be corrected
=> Agreed in principle in R2-1815847

R2-1813597 Power boosting for pi/2 BPSK NTT DOCOMO, INC.

Inter-Band EN-DC UL TX Power

RP input: Power Threshold for dropping NR transmission

R2-1814908 Inter-band EN-DC Configured Output Power requirements Ericsson
=> The parameter is provided per cell group
=> To be resubmitted to next meeting with the values agreed by RAN4.

R2-1814386 Introduction of parameter XScaleThreshold for inter-band EN-DC power control Nokia, Nokia Shanghai Bell

TCI States

Possibility to configure TCI-States for CORESET#0

R2-1814985 TCI states configuration for CORESET#0 Nokia, Nokia Shanghai Bell

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- Huawei agree this is a feasible option but think RAN1 added this in RRC parameters as the PDCCH beam and PDCCH beam can be different.
- Qualcomm think RAN1 are still discussing how to configure the TCI state for coreset#0 and we should wait for RAN1.

=> Wait for RAN1 to discuss and provide us with more information

R2-1814986 CR on TCI states configuration for CORESET#0 Nokia, Nokia Shanghai Bell

Mapping search space configured in PDCCH-ConfigCommon to CORESET configured in PDCCH-Config:

R2-1815414 On the TCI state configuration for CSS in “non-overlapping” BWP vivo

- DOCOMO think that the common configuration should not refer to the dedicated configuration. We should follow he principle decisions that the common configuration and dedicated configuration should be consistent for all BWPs.
- ZTE agree that we should not mix the common and dedicated configurations.
- Ericsson think the current signalling could work for an SCell as the common and dedicated configurations come together but it would not work for the PCell initial BWP.

=> Noted

PDCCH

Allow using commonControlResourceSet for USS

R2-1814973 Correction to commonControlResourceSet Ericsson

=> Change the removed text to instead say " and can be used for any common or UE specific search space"

=> Agreed in principle in R2-1815849

Configuration of SearchSpaces:

R2-1815203 CR on searchSpaceZero in PDCCH-ConfigCommon vivo

- Ericsson thinks that this would revert the previous decision that the NW has to configure all search space usage explicitly. Nokia has the same understanding. Vivo thinks that RAN1 only intends to use explicit configuration for Paging search space. DCM and QC also agree with Ericsson and Nokia that the NW should explicitly set the IDs.

=> Not agreed

=> Clarify in the field description that the NW sets searchSpaceSIB1 in the PDCCH-ConfigCommon of the initial BWP of the SIB1 of the PCell.

=> Add this agreement to the rapporteur CR

R2-1814850 CR for TS38.331 on InitialDownlinkBWP Huawei, HiSilicon

Clarifications:

R2-1813663 CR for TS38.331 on PDCCH configuration Huawei, HiSilicon

Change 2:

- Ericsson agrees that the fields must be set so that the UE knows the search spaces to use. But we do not need to capture obvious NW behaviour. The current field descriptions are sufficient. QC agrees that conditions tend to be difficult and are not needed when the UE behaviour is clear.

Change 3:

- Already covered differently by agreed contribution

Change 4:

- Ericsson thinks that from the MAC spec it is clear where the UE falls back to. Then it is clear that the NW has to configure search spaces accordingly. No need to capture this.

=> Change 1 and 5 will be done in the rapporteur CR

PUCCH

Some corrections and clarifications

R2-1813632 CR on description of maxPayloadMinus1 for PUCCH-ResourceSet OPPO

- Ericsson thinks that the current wording is correct since the UE only needs to know which of the up to 4 configured PUCCH formats to use. And hence, it only needs to know the size constraints of all but the last “bin”.

=> Not agreed

=> Same change had been done in rapporteur CR and will be reverted there, too

R2-1813664 CR for TS38.331 on PUCCH release Huawei, HiSilicon

=> CR is not agreed since it would also affect the PUCCH resource configuration needed for HARQ feedback.

=> Discuss and check until next meeting whether to flush really all PUCCH resources. Check whether it would be possible to keep the PUCCH configuration, i.e., whether MAC would prevent using the SR and periodic CSI.

✉ **[103bis#42][NR/L1] PUCCH resource release (Huawei)**
Intended outcome: Email discussion summary and optional CR
Deadline: Thursday 2018-11-01

R2-1814184 Clarification on PUCCH-ConfigCommon vivo

- Intel thinks that option 2 is not needed. QC agrees that the PUCCH-ConfigCommon resource is only for the initial BWP.

=> Noted

=> The field description of pucch-ResourceCommon clarifies that these PUCCH resources are only applicable for the initial BWP of the UE’s serving cell. Hence, the NW cannot configure this field for other BWPs. And it is also clear that the NW has to configure the dedicated PUCCH-Config for other BWPs on which the UE is meant to transmit PUCCH.

=> VIVO may consider making a CR making this even more clear in the RRC spec. Updated CR to be provided in R2-1815920 (Offline discussion 901)

R2-1814185 CR on PUCCH-ConfigCommon vivo

=> Not agreed

R2-1815920 CR on PUCCH-ConfigCommon vivo

BWP switching

Mapping of DCI code-points to RRC-Configured BWPs

R2-1813657 BWP ID issue Huawei, HiSilicon

- Intel prefers option 2. The network can take care of this. Nokia thinks that the bitwidth could be made dependent of the maximum ID. MediaTek thinks that option 1 is better. QC agrees. Intel thinks that this change would not be backwards compatible. The NW could ensure that the current RAN1 and RAN2 text remains correct. Ericsson tends to agree with Intel. MediaTek thinks option 1 would be the cleanest. DCM thinks that option 2 works and nothing is broken (only a clarification for the BWP).

=> Postponed to next meeting

R2-1813658 CR for TS38.331 on BWP ID (option-1) Huawei, HiSilicon

R2-1813659 CR for TS38.331 on BWP ID (option-2) Huawei, HiSilicon

Allowing to change SCell’s BWP by RRC without release/add

R2-1813661 CR for TS38.331 on first Active BWPs for Scell Huawei, HiSilicon

- QC, ZTE and MediaTek agree that the NW should be able to reconfigure this. Intel and Ericsson thinks that there is no real need to change the first active BWP. It would be sufficient to just release and add the SCell. Nokia agrees that one can also use release and add if one anyway wants to use RRC BWP switching. Huawei thinks that we could just allow sending it without reconfigurationWithSync but that does not need to trigger the switch in the RRC procedure.

=> Not agreed

R2-1813660 Configuration of first Active BWPs for ScellHuawei, HiSilicon

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MIMO configuration

R2-1813713 MIMO layer configuration MediaTek Inc.
=> Send an “LS on MIMO layer configuration” to RAN1 and RAN4 to ask whether the NW has to pre-inform the UE by an explicit (new) RRC parameter about the maximum number of MIMO layers per carrier as it was done in LTE or whether and how the UE can derive this from other existing RRC parameters or whether the NW may dynamically choose the number of MIMO layers per carrier (staying at any point in time within the UE capabilities). Also ask whether such configuration, if needed, should be done on BWP or Cell level. Ask for both UL and DL. Clarify that RAN2 could add a parameter if RAN1 considers it necessary.

✉ **[103bis#07][NR/MIMO] LS to RAN1 and RAN4 on MIMO Layer configuration (MediaTek)**
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18

R2-1813714 MIMO layer configuration MediaTek Inc.

Initial Timing Advance

R2-1813941 Correction on field description of n-TimingAdvanceOffset ZTE Corporation, Sanechips
=> No change is needed. The Network configures either no value (in cases where just one value is possible for the given mode) or one of the allowed values.
=> Not agreed

SRS Configuration

R2-1814275 Correction on SRS-TPC-CommandConfig MediaTek Inc.
- Ericsson thinks it would be better to change “Cond Setup” to “Need R”.
=> Remove the “Cond Setup” and instead add “Need R”
=> With this change the CR is in principle agreed in R2-1815925

R2-1814847 Correction in 38331 for SRS-config Huawei, HiSilicon
=> Change to “The configured SRS resource does not exceed the slot boundary.”
=> Remove “The network configures at most one resource set with usage set to codebook and at most one with usage set to nonCodebook” since it is already covered in L1 specs.
=> Remove field description for freqDomainPosition.
=> Do not add a field description for frequencyDomainShift
=> An update CR may be provided in R2-1815921 (Huawei) (Offline discussion 900)

R2-1815921 Correction in 38331 for SRS-config Huawei, HiSilicon

CSI

R2-1814960 Invalidation of L1 parameter nrofCQIsPerReport Ericsson
=> The CR is in principle agreed

Other

Mostly clarifications

R2-1813662 CR for TS38.331 on BWP related corrections Huawei, HiSilicon
=> Not agreed
=> Rapporteur will adopt editorial changes as considered necessary
=> Change in field description “beamFailureRecoveryConfig”: “Configuration of beam failure recovery. If supplementaryUplink is present, the field is present only in one of the uplink carriers, either UL or SUL.”

R2-1813665 CR for TS38.331 on MIB Huawei, HiSilicon
=> Change “the initial DL BWP” to “, paging”
=> With this change the CR is in principle agreed in R2-1815922

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R2-1813666 CR for TS38.331 on PDCCH-ConfigSIB Huawei, HiSilicon
=> CR is in principle agreed

R2-1814854 Miscellaneous Corrections to 38331 Huawei, HiSilicon
=> Will be merged into rapporteur CR

R2-1814851 CR for TS38.331 on PowerControl-related issues Huawei, HiSilicon
=> Remove “The value of the field should be i0 when another field twoPUSCH-PC-AdjustmentStates is absent”
=> Remove “power control process l=0”
=> Change “the UE adopts the SS/PBCH block with which the UE obtains the master system information as the reference signal for pathloss estimation for PUCCH power control” to “the UE uses the SSB as reference signal”
=> With this change the CR is in principle agreed in R2-1815923

R2-1814971 Clarification on hopping parameters for PUSCH Ericsson
=> Correct to “sequence hopping are disabled”
=> groupHoppingEnabledTransformPrecoding: Change to “Enables group hopping for Msg3 (sequence hopping is always disabled for Msg3)”
=> Wit this change the CR is in principle agreed in R2-1815924

R2-1815116 Correction in 38331 for beam failure recovery Huawei, HiSilicon

R2-1815241 Correction in 38331 for CSI-RS mobility configuration Huawei, HiSilicon

R2-1814125 CR on frequencyInfoDL for handover Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0262 - F NR_newRAT-Core

R2-1815310 Clarification on the Description for resourceType in CSI-ResourceConfig Samsung Electronics CR Rel-15 38.331 15.3.0 0461 - F NR_newRAT-Core

R2-1815164 Discussion on allowing CSI-RS configuration over more than one BWPs Samsung discussion R2-1811797

Withdrawn

R2-1814607 CR for TS38.331 on DMRS capabilities [H343][H344] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0363 - F NR_newRAT-Core Withdrawn

R2-1814608 CR for TS38.306 on DMRS capabilities [H343][H344] Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0039 - F NR_newRAT-Core Withdrawn

R2-1814846 Correction in 38331 for CSI-RS mobility configuration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0387 - F NR_newRAT-Core Withdrawn

10.4.1.3.1.2 Other

R2-1814148 Differentiation of requirements applicable for EN-DC and for standalone NR [H373] Huawei,

R2-1814149 Corrections to the applicability of 38.331 to EN-DC [H373] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0269 - F NR_newRAT-Core
=> Text relating to section 5 to be clarified
=> Text relating to section 12 to be revised to address SRB3 RRC processing time.
=> Can attempt to make the text more concise
=> Offline discussion to address the RRC Connected terminology.
=> Define "in EN-DC" to mean "configured with E-UTRA nr-SecondaryCellGroupConfig (MCG is E-UTRA)” and then use "in EN-DC" consistently throughout the spec. (exact wording can be discussed offline).
=> Revised in R2-1815809 (Offline discussion 10)

R2-1815809 Corrections to the applicability of 38.331 to EN-DC [H373] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0269 1 F NR_newRAT-Core

✉ **[103bis#15][NR] applicability of 38.331 to EN-DC (Huawei)**

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Intended outcome: Agreeable CR submitted to next meeting
Deadline: Thursday 2018-11-01

R2-1813819 Clarification of RACH resource for DL data arrival CATT CR Rel-15 38.331 15.3.0 0215 - F NR_newRAT-Core
=> Not agreed

R2-1813893 Clarification on configured grant timer in 38.331 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0229 - F NR_newRAT-Core
=> Change the field description to " Indicates the initial value of the configured grant timer (see TS 38.321,) in multiples of *periodicity*."
=> Coversheet to be updated to clarify that the problem is that it is not clear that periodicities refers to the field periodicity
=> Agreed in principle in R2-1815810

R2-1814151 CR on timing reference of SMTC upon PSCell addition Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0270 - F NR_newRAT-Core
- ZTE understand that for EN-DC it was agreed that SMTC will be included in 36.331. Qualcomm agree.
=> Only change needed if the addition of "source"
=> Impact analysis to be improved
=> Revised in R2-1815811(Offline discussion 11)

R2-1815811 CR on timing reference of SMTC upon PSCell addition Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0270 1 F NR_newRAT-Core
=> add "(source) SpCell "
=> Agreed in principle in R2-1816025

R2-1814152 Clarification on SMTC periodicity in ReconfigurationWithSync and SSB periodicity in ServingCellConfigCommon Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0271 - F NR_newRAT-Core
=> Clearly say that they need to be set to the same value instead of " in accordance with "
=> Impact analysis to be improved
=> Merged into R2-1815811

R2-1815091 Discussion on the support of PDCP SN length change Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core R2-1812541
- Intel think we confirmed last meeting that the EPS bearer ID is used as the anchor so the DRB ID can be changed without a problem. Ericsson have a similar view, and also think we could remove the limitation.
- Huawei think the DOCOMO change to just remove the note would be ok.
=> Noted

R2-1815093 release and addition of the DRB Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0173 1 F NR_newRAT-Core R2-1812543
=> Not agreed

R2-1815092 release and addition of the DRB Huawei, Hisilicon CR Rel-15 36.331 15.3.0 3524 1 F NR_newRAT-Core R2-1812542
=> To be discussed offline what to do with the note in LTE RRC
=> Revised in R2-1815815 (Offline discussion 12)

R2-1815815 release and addition of the DRB Huawei, Hisilicon CR Rel-15 36.331 15.3.0 3524 2 F NR_newRAT-Core
=> Postponed

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R2-1815381 Removal of restriction on RB removal and addition NTT DOCOMO INC., Sharp CR Rel-15 38.331 15.3.0 0476 - F NR_newRAT-Core
=> The note can be removed
=> The text " When a radio bearer is removed (including via full configuration) and added with the same drb-Identity in a single RRC reconfiguration message or in different RRC reconfiguration messages, the network should ensure that the different security key is used for the newly added radio bearer." should be added and can be discussed offline to find the most appropriate location. Final details of the text can also be discussed
=> Revised in R2-1815813 (Offline discussion 12)

R2-1815982 Summary of Offline discussion#12 on RB removal and addition NTT DOCOMO discussion
=> Noted

R2-1815983 [DRAFT] LS on drb-Identity assignment in EN-DC NTT DOCOMO, INC. LS out Rel-15 NR_newRAT-Core To:RAN3
=> Approved in R2-1816051

R2-1815813 Removal of restriction on RB removal and addition NTT DOCOMO INC., Sharp CR Rel-15 38.331 15.3.0 0476 1 F NR_newRAT-Core
=> Agreed in principle

R2-1815122 Correction to Default MAC Cell Group configuration Samsung Electronics CR Rel-15 38.331 15.3.0 0445 - F NR_newRAT-Core
=> Clarify on the coversheet that this impact SA only
=> Agreed in principle in R2-1815816

R2-1814045 CR to 38331 on ul-DataSplitThreshold for SRB ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0248 - F NR_newRAT-Core
=> Offline discussion to find how to capture that " The network sets this field to 'infinity' for SRBs and for UEs not supporting splitDRB-withUL-Both-MCG-SCG.". Can be considered to merge with the condition for SplitBearer.
=> Revised in R2-1815817 (Offline discussion 13)

R2-1815817 CR to 38331 on ul-DataSplitThreshold for SRB ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0248 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814654 Clarification of PDCP-Config field descriptions (38.331) Ericsson CR Rel-15 38.331 15.3.0 0365 - F NR_newRAT-Core
=> For the maxCID follow the sentence from LTE RRC.
=> Agreed in principle in R2-1815818

R2-1815134 Correction to PDCP statusReportRequired LG Electronics Inc. CR Rel-15 38.331 15.3.0 0449 - F NR_newRAT-Core
=> Remove the sentence " For UL DRBs, the value shall be ignored by the UE."
=> Agreed in principle in R2-1815819

R2-1813608 Clarification on reconfiguration for EN-DC Google Inc. CR Rel-15 38.331 15.3.0 0181 - F NR_newRAT-Core
=> In 5.3.5.3 radio configuration to be change to full configuration. Other changes are not needed
=> Change to be included in the rapporteurs misc corrections CR.

R2-1813937 Consideration on HARQ ARQ procedure under RRC based BWP switch ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core
- Intel thinks RRC doesn't know the status of HARQ and RLC when it receives the message so not sure why we should prevent the feedback in L2.

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- ZTE think the main issue that latency will be larger is feedback must be send on the original BWP.
- Ericsson think that for this case the L2 ACK will never be lost but for reconfig with sync it will.

=> Noted
=> A CR can be submitted to the next meeting to remove the corresponding note for the reconfig case.

R2-1813938 Clarification on HARQ ARQ procedure under RRC based BWP switch ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0231 - F NR_newRAT-Core
=> RAN2 understand that the proposed note describes the intended behaviour but it doesn't need to be captured.
=> Not agreed

R2-1815282 Clarification on Configuration of multiplePHR for EN-DC and NR-CA Samsung Electronics CR Rel-15 38.331 15.3.0 0460 - F NR_newRAT-Core
=> Reword to use the form "Network configures ..."
=> Clarify that is always FALSE for other cases than those listed
=> Revised in R2-1815820 (Offline discussion 14)

R2-1815820 Clarification on Configuration of multiplePHR for EN-DC and NR-CA Samsung Electronics CR Rel-15 38.331 15.3.0 0460 1 F NR_newRAT-Core
=> Agreed in principle

R2-1815524 Clarification on moreThanOneRLC Samsung CR Rel-15 38.331 15.3.0 0494 - F NR_newRAT-Core
=> Covered by previous CRs

Withdrawn

R2-1815480 DRX value range in Idle and Inactive mode in NR Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1815481 Extension of the defaultpagingCycle range Ericsson CR Rel-15 38.331 15.3.0 0487 - F NR_newRAT-Core Withdrawn

10.4.1.3.3 Connection establishment procedure

Access control and establishment cause are discussed in the access control agenda items 10.4.1.8.x

Signalling connection only

R2-1815101 Consideration on Signalling only Connection Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core
P2

- Ericsson ask if it would be mandatory to setup SRB2 or whether it is optional. Ericsson would like SRB2 optional to enable DRBs without SRB2.
- Intel doesn't see a need to setup SRB2 only after the SMC.
- Huawei would be ok to make SRB2 fully optional
- ZTE doesn't see a motivation to separate SRB2 and DRB. The signalling only connection can be achieved with SRB1 only. Ericsson think the signalling only connection does need to support SRB2 for large NAS messages. Intel think that SRB2 is not related to size but to priority and in this case we do not need to prioritise measurement reports over NAS messages as we don't do handover.
- ZTE agree with Intel view and think we don't have size constraint over SRB1.

Agreements
1: It should be supported to set up security (SMC) without setting up SRB2/DRB.
2: No change to the current approach that handover is only possible after SRB2/DRB are established

=> Offline discussion on whether to go further and separate SRB2 and DRB configuration (Offline discussion 15, Huawei)

- Update from offline discussion. RAN3 have already agreed to decouple SRB2 and DRB. The CR was updated to support this case. For re-establishment more discussion is required at the next meeting.
- Nokia would like to check careful what RAN3 have agreed

=> Discussion is postponed to next meeting

R2-1815102 CR on supporting signaling only connection Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0441 - F NR_newRAT-Core

- Intel think re-establishment also need to be addressed

=> Discuss offline how to address the re-establishment case

=> Revised in R2-1815821 (Offline discussion 15)

R2-1815821 CR on supporting signaling only connection Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0441 1 F NR_newRAT-Core

=> Postponed to next meeting

R2-1813993 [RIL I861, I655] CR for Signalling only Connection Intel Corporation CR Rel-15 38.331 15.3.0 0240 - F NR_newRAT-Core

R2-1814636 Support for signaling only connection Ericsson discussion Rel-15 NR_newRAT-Core

=> Revised in R2-1815576

R2-1815576 Support for signaling only connection Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814637 [DRAFT] LS on secured signalling-only connection Ericsson LS out Rel-15 NR_newRAT-Core To:SA2

=> Revised in R2-1815577

R2-1815577 [DRAFT] LS on secured signalling-only connection Ericsson LS out Rel-15 NR_newRAT-Core To:SA2

GUAMI type

R2-1814075 CR to 38.331 on clarification of guami-Type Ericsson CR Rel-15 38.331 15.3.0 0249 - F NR_newRAT-Core

=> Add "is used to"

=> Agree in principle in R2-1815822

R2-1814074 Clarification of guami-Type Ericsson discussion Rel-15 NR_newRAT-Core

R2-1815123 Correction to missing field descriptions of guami-Type in RRCSetupComplete Samsung Electronics CR Rel-15 38.331 15.3.0 0446 - F NR_newRAT-Core

R2-1815392 Clarification on guami-type Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0480 - F NR_newRAT-Core

Other

R2-1813772 Correction to rate matching for PCell Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0209 - F NR_newRAT-Core

- Ericsson wonder if it should be kept in the common branch now we add it in the dedicated branch. Also thinks this impacts both EN-DC and SA.

=> To be discussed along with ZTE paper on same topic in L1 parameters AI.

R2-1814154 CR on fallback to the setup procedure Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0273 - F NR_newRAT-Core

=> Remove the " upon receiving the request (NAS PDU) from the upper layer,"

=> Keep text in 5.3.3.4

=> Discuss offline how to reword the discard requirement to make it appropriate for both resume and re-establishment

=> Revised in R2-1815823 (Offline discussion 17)

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R2-1815823 CR on fallback to the setup procedure Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0273 1 F NR_newRAT-Core
=> Revised in R2-1816056

R2-1816056 CR on fallback to the setup procedure Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0273 2 F NR_newRAT-Core
=> Agreed in principle

R2-1814295 CR on ng-5g-s-tmsi-value Handling During the Reception of RRCSetup for 38.331 (S029) Samsung Electronics CR Rel-15 38.331 15.3.0 0303 - F NR_newRAT-Core
=> Offline discussion to conclude on the wording. Also check the NAS specs to see what is provided from NAS to AS when the fallback occurs.
=> Revised in R2-1815824 (Offline discussion 18)
- Update from offline: Concluded that no CR is needed

R2-1815824 CR on ng-5g-s-tmsi-value Handling During the Reception of RRCSetup for 38.331 (S029) Samsung Electronics CR Rel-15 38.331 15.3.0 0303 1 F NR_newRAT-Core

R2-1814924 CR for triggers for abortion of RRC establishment Ericsson CR Rel-15 38.331 15.3.0 0402 - F NR_newRAT-Core
=> Agreed in principle

R2-1814977 Clarification on handling of default parameters Ericsson CR Rel-15 38.331 15.3.0 0421 - F NR_newRAT-Core
=> Remove " Default values for the physical layer are defined in the corresponding L1 specifications and hence omitted in the following subsections. " from the final section
=> Agreed in principle in R2-1815825

R2-1815124 Correction to missing field descriptions of PLMN identity Samsung Electronics CR Rel-15 38.331 15.3.0 0447 - F NR_newRAT-Core
=> Agreed in principle

R2-1814918 Timer for RRC Setup establishment procedure (T300) Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814919 Timer for RRC Resume Request (T319) Ericsson discussion Rel-15 NR_newRAT-Core

R2-1815010 UE operation upon RRC reject reception Apple discussion Rel-15 NR_newRAT-Core

R2-1815011 UE operation upon RRC reject reception Apple CR Rel-15 38.331 15.3.0 0428 - F NR_newRAT-Core

R2-1815231 Connection procedure failure caused by On-demand SI procedure ASUSTeK discussion Rel-15 38.331 NR_newRAT-Core R2-1812836

Late

R2-1815610 Impact of signalling only connection on NR RRC Ericsson CR Rel-15 38.331 15.3.0 0501 - F NR_newRAT-Core Late

10.4.1.3.4 Connection reconfiguration procedure

Including corrections related to handover (i.e. reconfig with sync)

R2-1813674 [M152] Correction on DRB addition/modification to support HO with QoS remapping MediaTek Inc. CR Rel-15 38.331 15.3.0 0149 1 F NR_newRAT-Core R2-1811115
=> Covered by the Qualcomm CR below.
=> Reason for change can be merged into R2-1815826

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R2-1815059 CR on SDAP reconfiguration handling Qualcomm Incorporated draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core
- SHARP things the NAS indication is needed when a DRB is established and not when a QoS flow is established. Think it is needed after all QOS flow to DRB mapping has been created.

- MediaTek think the additional notes are no needed as the good eNB can ensure this.
- OPPO think the first NOTE is covered by the field description.
=> Remove the 2 notes
=> Can discuss offline whether a field description is needed to clarify that the SDAP does not need a release and add to perform a remapping, only addition to the new DRB.
=> Indication to upper layers to be included
=> Revised in R2-1815826 (Offline discussion 19)

R2-1815826 CR on SDAP reconfiguration handling Qualcomm Incorporated draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core
=> Agreed in principle

R2-1815386 CR on missing indication to stop the NAS timer T3540 ([J020]) SHARP Corporation CR Rel-15 38.331 15.3.0 0477 - F NR_newRAT-Core
R2-1815385 Issue on missing indication to stop the NAS timer T3540 ([J020]) SHARP Corporation discussion Rel-15 NR_newRAT-Core

R2-1814303 Clarification on reconfigurationWithSync and Random Access Samsung Electronics CR Rel-15 38.331 15.3.0 0308 - F NR_newRAT-Core
=> Revised to reformulate the original note to correctly cover both SA and EN-DC cases
=> Revised in R2-1815827 (Offline discussion 20)
- Offline discussion provided R2-1815991 for discussion instead of a CR

R2-1815991 ReconfigurationWithSync and Random Access (offline discussion 20) Samsung discussion Rel-15 NR_newRAT-Core
=> Changes in the TP are agreed to be included in the rapporteur misc CR

R2-1815827 Clarification on reconfigurationWithSync and Random Access Samsung Electronics CR Rel-15 38.331 15.3.0 0308 1 F NR_newRAT-Core

R2-1814572 [N164] Random access during RRC reconfiguration complete Ericsson CR Rel-15 38.331 15.3.0 0354 - F NR_newRAT-Core

R2-1813612 Correction to reconfiguration procedure Google Inc. CR Rel-15 38.331 15.3.0 0183 - F NR_newRAT-Core
=> First change is not needed as already covered by other CRs
=> Second change to be discussed with other re-establishment CRs

R2-1815413 Correction to full configuration Google Inc. CR Rel-15 38.331 15.3.0 0482 - F NR_newRAT-Core
=> Revised in R2-1816047
R2-1816047 Correction to full configuration Google Inc. CR Rel-15 38.331 15.3.0 0482 1 F NR_newRAT-Core
=> Agreed in principle

R2-1815360 Correction on conditional presence of PCellOnly Samsung Electronics CR Rel-15 38.331 15.3.0 0469 - F NR_newRAT-Core
=> Impact analysis to be updated
=> Revised in R2-1815828 (Offline discussion 21)

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R2-1815828 Correction on conditional presence of PCellOnly Samsung Electronics CR Rel-15 38.331 15.3.0 0469 1 F NR_newRAT-Core
=> Agreed in principle

Withdrawn

R2-1814953 Correction on inter-RAT HO for support of delta configuration Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0407 - F NR_newRAT-Core Withdrawn

10.4.1.3.5 Connection re-establishment procedure

Security related

R2-1814001 Corrections on reestablishment and security procedures Intel Corporation CR Rel-15 38.331 15.3.0 0243 - F NR_newRAT-Core
=> Ensure that a consistent key derivation sentence is used in all parts of the spec (details of the wording can be concluded offline)
=> Revised in R2-1815831 (Offline discussion 22)

R2-1815865 Report of offline discussion #22 Corrections on reestablishment and security procedures Intel Corporation report
=> Withdrawn

R2-1815831 Corrections on reestablishment and security procedures Intel Corporation CR Rel-15 38.331 15.3.0 0243 1 F NR_newRAT-Core
=> Revised to R2-1816019

R2-1816019 Corrections on reestablishment and security procedures Intel Corporation CR Rel-15 38.331 15.3.0 0243 2 F NR_newRAT-Core
=> In 5.3.7.4 change 5.3.7.4 RRCReestablishmentRequest to RRCReestablishment
=> Add PDCP CR to other specs affected
=> Agreed in principle in R2-1816030

R2-1816009 Suspend and resume of security Intel Corporation CR Rel-15 38.323 0022 F NR_newRAT-Core

=> To be checked by UP session during next meeting

R2-1814609 Correction to key derivation during RRC Connection Re-establishment Samsung R&D Institute India draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core
=> Covered by previous CR

R2-1814255 Remaining issue on re-establishment procedure MediaTek Inc. discussion NR_newRAT-Core
P1/2
- Intel think that in the current specs it is integrity protected and sent over SRB1 and think we should not change but think there is something missing about suspending encryption for this case, as it is done in LTE.
- ZTE agree something is needed in PDCP spec to allow suspending encryption as in LTE suspend.
- Ericsson also agree.
- Samsung also agree we should not change previous agreements.

=> No change to the current agreement that RRCReestablishment message is sent on SRB1. Change needed to correctly describe the suspension of ciphering on PDCP for this message (can be based on LTE suspend/resume procedure). To be discussed in offline discussion 22.

Proposal 4: The UE shall apply default configuration for SRB1 after receiving the RRCReestablishment message.
Proposal 5: The UE shall release the measurement gap configuration after receiving the RRCReestablishment message.

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R2-1814256 Corrections on re-establishment procedure MediaTek Inc. CR Rel-15 38.331 15.3.0 0296 - F NR_newRAT-Core
=> To be updated to reflect decision of R2-1814255
=> Apply the default configuration for SRB1 when the re-establishment procedure is initiated
=> Discuss offline whether anything is needed for measurement gaps
=> Last 2 changes are kept in the CR
=> Revised in R2-1815832 (Offline discussion 23)

R2-1815832 Corrections on re-establishment procedure MediaTek Inc. CR Rel-15 38.331 15.3.0 0296 1 F NR_newRAT-Core
=> Agreed in principle

R2-1815998 Discussion on measurement gap configuration in re-establishment procedure MediaTek Inc. discussion Rel-15 NR_newRAT-Core

Agreements
1: UE shall release the measurement gap configuration after receiving the RRCReestablishment message.

R2-1814917 Security Handling in re-establishment procedure Ericsson discussion Rel-15 NR_newRAT-Core

Other

R2-1813605 CR to RRC connection reestablishment Google Inc. CR Rel-15 38.331 15.3.0 0180 - F NR_newRAT-Core
- ZTE think LTE doesn't do this so wonder why it is needed. SRB1 is suspended and so no measurement report will be transmitted.
- LG think this can be handled by UE implementation.
=> Not agreed

R2-1815358 Correction for the default value of T311 Samsung Electronics CR Rel-15 38.331 15.3.0 0468 - F NR_newRAT-Core
- DOCOMO explain that 30s was an intentional value when it was agreed. As UE will go to idle after this time it doesn’t matter that it is very long.
- Intel think the default should be a reasonable value. ZTE think the consequence is that network will always provide a non default value in SIB1 which impacts size.
- Ericsson is concerned that this very long timer could lead to the UE being stuck unable to select a cell in some cases.
=> Offline discussion to conclude the value of T311 (Offline discussion 24, Samsung)
- Update from offline discussion. Many companies want to keep the default value of 30s and hence no changed is needed.

R2-1815357 Discussion on default value of T311 Samsung Electronics discussion Rel-15 NR_newRAT-Core

R2-1813747 RRC establishment cause in RRC reestablishment procedure Sharp discussion Rel-15 NR_newRAT-Core
- Qualcomm think it is not needed for the reestablishment case. The gNB is aware of any overload.
- ZTE think the establishment cause is not essential in the initial setup message according to the RAN3/CT1 specification. But maybe we should still inform RAN3/CT1
- Intel think we should ask CT1 is it is essential.
- SHARP think that although the field is optional in RAN3 it may still be essential information.
- Huawei think that there would be no cause in the UE to provide.
=> Draft LS to CT1/RAN3 to explain that in the re-establishment fallback case the establishment cause will not be available in the gNB and hence not be able to be provided to CN. Ask if this is causes any problem.

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=> LS may also include any information to be provided to CT1 as a result of offline discussion 18.

R2-1814280 Draft LS on RRC establishment cause in RRC reestablishment fallback case Sharp LS out Rel-15 NR_newRAT-Core To:RAN3
=> Revised in R2-1815833 to reflect the decisions taken for the paper above (Offline discussion 25, Sharp)

R2-1815833 [DRAFT] LS on RRC establishment cause in RRC reestablishment fallback case Sharp LS out Rel-15 NR_newRAT-Core To:CT1, RAN3
=> Approved in R2-1816013

R2-1814681 Re-establishment causes in Msg3 and Msg5 Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814682 Re-establishment causes in Msg3 and Msg5 (38.331) Ericsson CR Rel-15 38.331 15.3.0 0369 - F NR_newRAT-Core

R2-1815410 Consideration on the RRC re-establishment across E-PLMN ZTE Corporation, Sanechips discussion NR_newRAT-Core

R2-1815411 CR to 38.331 on the RRC re-establishment across E-PLMN ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0481 - F NR_newRAT-Core

10.4.1.3.6 Connection resume procedure

Including success, reject, fallback to connection establishment, and release to idle cases.

Security - MAC-I calculation

R2-1814077 Cell ID in MAC-I calculation at resume and reestablishment Ericsson discussion Rel-15 NR_newRAT-Core

P1

- ZTE agree with the proposal and note a similar issue also exists in LTE resume and a CR has been agreed for that at this meeting. Intel also agree

P2

- ZTE prefer to keep aligned to LTE and not agree P2. Think there are enough other pieces of information to separate the MAC-Is
- Ericsson think this was overlooked in LTE and we should avoid the token being valid in multiple cells.
- Huawei wonder in which scenarios this would become a security threat. Ericsson explain the case that the token is obtained in one cell but it did not reach the cell. Then there would be no relocation and it could be used in another cell.
- Samsung think nothing else is required and if anything is needed it should come from SA3.
- Ericsson think we should explain to SA3 that the cell id is the only parameter related to the target cell.

Agreements
1 The UE uses the cell identifier associated with the first PLMN in the PLMN-IdentityInfoList as input to the resumeMAC-I and shortMAC-I calculation.

R2-1814078 CR to 38.331 on Cell Identifier for MAC-I calculation at resume and reestablishment Ericsson CR Rel-15 38.331 15.3.0 0250 - F NR_newRAT-Core

R2-1814079 Draft LS on usage of Cell Identifier in MAC-I calculation at resume and reestablishment Ericsson LS out Rel-15 NR_newRAT-Core To:SA3

R2-1814166 Ambiguity of targetCellIdentity in Resume Short MAC-I calculation ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1815205 CR to 38.331 on the ambiguity of targetCellIdentity in Resume/Reestablishment MAC-I calculation ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0454 - F NR_newRAT-Core

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=> Remove editor's note " Editor's Note: FFS Additional input to VarResumeMAC-Input (replay attacks mitigation)." as SA3 have confirmed this will not be addressed in R15
=> Revise title to be applicable to both resume and re-establish.
=> Agreed in principle in R2-1815834

R2-1814096 Resume discriminator for generation of short MAC-I in NR and eLTE Ericsson discussion Rel-15 NR_newRAT-Core, LTE_5GCN_connect-Core

Other security related

R2-1813970 Handling on security keys for resume procedure (I774) Intel Corporation, MediaTek Inc. CR Rel-15 38.331 15.3.0 0238 - F NR_newRAT-Core
- Huawei think the current text in 5.3.11 related to the current security context and not the keys derived in 5.3.13.3
- Ericsson think the discussion on AS context might help to find good wording.
=> Remove the " derived in accordance with 5.3.13.3" from 5.3.11
=> Detailed wording can be progressed offline
=> Revised in R2-1815835 (Offline discussion 26)

R2-1815835 Handling on security keys for resume procedure (I774) Intel Corporation, MediaTek Inc. CR Rel-15 38.331 15.3.0 0238 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814130 CR on handling of security key for RRC_INACTIVE [H247] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0263 - F NR_newRAT-Core

R2-1814377 Correction on UE security context Google Inc. CR Rel-15 38.331 15.3.0 0312 - F NR_newRAT-Core

R2-1814913 Discussion paper for AS context during Reject Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814914 CR for AS context during Reject Ericsson CR Rel-15 38.331 15.3.0 0399 - F NR_newRAT-Core

Simultaneous AS/NAS events

R2-1814729 The handling of AS and NAS triggered simultaneously Xiaomi Communications discussion P1
- ZTE think that the NAS will always give an AC and cause with any NAS PDU and hence nothing more needs to be specified. Qualcomm think this makes sense in principle but not sure anything needs to be specified
- Intel support the proposal as if the cause value for RNAU is used then the gNB may move the UE back to inactive. Ericsson have the same view.
- Nokia think the spec is already described in this way, but wonder whether it is ok for the network to not know about the RNAU.
- LG think this is not a frequent case and hence does not need to be specified. Wonder what is the definition of simultaneously apart from the case of TA and RNA boundary.

Agreements
1 Procedure text order for applying access barring and cause value is RAN paging, else NAS triggered events else RNAU.

R2-1814832 Consideration on RRC_INACTIVE state handling Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1814833 RRC_INACTIVE state handling Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0385 - F NR_newRAT-Core

R2-1813685 Handling of simultaneous NAS and AS triggered events Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0201 - F NR_newRAT-Core

R2-1814961 Clarifications on RNA update and CN registration (N023) Ericsson CR Rel-15 38.331 15.3.0 0411 - F NR_newRAT-Core

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=> Agreed in principle

R2-1813968 Handling on simultaneously triggered NAS/AS events (I770) Intel Corporation CR Rel-15 38.331 15.3.0 0237 - F NR_newRAT-Core
=> Agreed in principle

R2-1814725 How to use the AC barring parameters when TAU and RNAU are triggered simultaneously Xiaomi Communicationsdiscussion

R2-1815541 The handling of AS and NAS events triggered simultaneously Xiaomi CommunicationsCR Rel-15 38.331 15.3.0 0498 - F NR_newRAT-Core

Pending RNAU

R2-1814099 Pending RNAU on cell reselection while T302 is running Ericsson discussion Rel-15 NR_newRAT-Core
P1
- ZTE think we agreed in Busan not to optimise when cell reselection happens while T302 is running and instead rely on NAS recovery. The only question is whether NAS can handle this unsolicited input from AS to NAS but this is needed even in case of RNAU failure.
- Ericsson think remaining in inactive is more consistent way of handling barring timers.
- LG support the Ericsson approach.
- Intel think we either send an LS to CT1 to ask whether NAS can handle this case or we just wait for CT1 to discuss. ZTE have similar view.

=> Noted

R2-1814100 CR to 38.331 on pending RNAU on cell reselection while T302 is running Ericsson CR Rel-15 38.331 15.3.0 0258 - F NR_newRAT-Core

R2-1814157 CR on 38.331 for pendingRnaUpdate Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0276 - F NR_newRAT-Core

R2-1814253 Further Discussion on RNA updating Sharp discussion NR_newRAT-Core

R2-1814314 UE behaviour upon cell re-selection while T302 is running [L211] LG Electronics France CR Rel-15 38.331 15.3.0 0309 - F NR_newRAT-Core

R2-1814311 UE behaviour upon cell re-selection while T302 is running LG Electronics France discussion Rel-15 NR_newRAT-Core

R2-1814638 CR to 38.331 on pendingRNAUpdate setting Ericsson CR Rel-15 38.331 15.3.0 0375 - F NR_newRAT-Core
=> Revised in R2-1815578

R2-1815578 CR to 38.331 on pendingRNAUpdate setting Ericsson CR Rel-15 38.331 15.3.0 0375 1 F NR_newRAT-Core
=> Remove the " if that is set to 'TRUE';"
=> Agree in principle R2-1815836

Other

R2-1814911 CR for 38.331 for UE AS context Alt Ericsson CR Rel-15 38.331 15.3.0 0397 - F FS_5G_eval

R2-1814912 CR for 38.331 for UE AS context Al2 Ericsson CR Rel-15 38.331 15.3.0 0398 - F NR_newRAT-Core
=> Agreed to use a definition for the UE Context instead of a UE variable
=> Definition doesn't need to refer to PDCP state (only mention RoHC state)
=> Further details of definition and corresponding updates to the procedure description to be progressed offline.
=> Revised in R2-1815837 (Offline discussion 27)

R2-1815837 CR for 38.331 for UE AS context Al2 Ericsson CR Rel-15 38.331 15.3.0 0398 1 F NR_newRAT-Core

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=> Postponed
=> Checking needed before next meeting whether this would clash with other CRs and merge if necessary

R2-1813601 Handling of Resume Failure Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0179 - F NR_newRAT-Core
=> CR for transition to IDLE is agreed in principle in R2-1815838

R2-1813823 [C204] Handling of timer T380 CATT CR Rel-15 38.331 15.3.0 0219 - F NR_newRAT-Core
=> Agreed in principle

R2-1814643 CR to 38.331 on handling of timer T380 Ericsson CR Rel-15 38.331 15.3.0 0373 - F NR_newRAT-Core
=> Revised in R2-1815582

R2-1815582 CR to 38.331 on handling of timer T380 Ericsson CR Rel-15 38.331 15.3.0 0373 1 F NR_newRAT-Core

R2-1814642 Handling of timer T380 Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815581

R2-1815581 Handling of timer T380 Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814169 Handling of T380 [L210] LG Electronics France CR Rel-15 38.331 15.3.0 0285 - F NR_newRAT-Core

R2-1813824 [C206] Handling of subsequent access attempt during resume procedure CATT discussion Rel-15 NR_newRAT-Core R2-1811236
- CATT explain that AS triggers resume and before it is completed the NAS triggers a request to resume.
- Ericsson think this can just be addressed by UE implementation.
- Intel think this is a modelling issue and can be left to UE implementation
- CATT think we have a behaviour for simultaneous triggered events but in this case they are not simultaneous. Think alternative 2 can save some time.
- Samsung this this can be left to UE implementation. MediaTek also have the same view and think it is a very small optimisation.

=> We will not specify behaviour for this case
=> Noted.

R2-1813825 [C206] Alt1 for subsequent access attempt during resume procedure CATT CR Rel-15 38.331 15.3.0 0220 - F NR_newRAT-Core R2-1811237

R2-1813826 [C206] Alt2 for subsequent access attempt during resume procedure CATT CR Rel-15 38.331 15.3.0 0221 - F NR_newRAT-Core R2-1811238

R2-1814639 Handling of subsequent NAS request in the middle of procedures Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815579

R2-1815579 Handling of subsequent NAS request in the middle of procedures Ericsson discussion Rel-15 NR_newRAT-Core

R2-1813971 RIL I556, I557, I558 on RB handling when resuming Intel Corporation CR Rel-15 38.331 15.3.0 0239 - F NR_newRAT-Core
=> Remove the change in 5.3.11
=> Check the spec for other cases where it might use 'established or suspended' in a misleading way
=> Further details of the wording can be concluded offline
=> Revised in R2-1815839 (Offline discussion 28)

R2-1815839 RIL I556, I557, I558 on RB handling when resuming Intel Corporation CR Rel-15 38.331 15.3.0 0239 1 F NR_newRAT-Core
=> In 5.3.11 and 5.3.3.4, remove the "or suspended"

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=> RAN2 understand that established RBs includes suspended RBs.
=> Agreed in principle in R2-1816052

R2-1814653 Procedures for full config at RRC Resume (38.331) Ericsson CR Rel-15 38.331 15.3.0 0364 - F NR_newRAT-Core
=> Agreed in principle

R2-1814910 E573 Configuration of SRB1 during Resume Ericsson CR Rel-15 38.331 15.3.0 0396 - F FS_5G_eval
=> PDCP-Config needs to be changed to refer to the field name
=> Revised in R2-1815952 (Offline discussion 72)

R2-1815952 E573 Configuration of SRB1 during Resume Ericsson CR Rel-15 38.331 15.3.0 0396 1 F FS_5G_eval
=> Agreed in principle

R2-1814444 New indication to inform the upper layers for Reject in RRC_INACTIVE [L212] LG Electronics France CR Rel-15 38.331 15.3.0 0332 - F NR_newRAT-Core
=> Offline discussion to conclude (Offline discussion 73, LG)
- Update from offline: Concluded that no change to RAN2 is needed but LS to CT1 is needed.

R2-1815987 [DRAFT] LS on Resume failure in RRC_INACTIVE LGE LS out Rel-15 NR_newRAT-Core To:CT1
=> Approved in R2-1816031

R2-1814443 New indication to inform the upper layers for Reject in RRC_INACTIVE [L212] LG Electronics France discussion Rel-15 NR_newRAT-Core

R2-1814641 AS/NAS interaction upon reception of RRC Reject Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815580

R2-1815580 AS/NAS interaction upon reception of RRC Reject Ericsson discussion Rel-15 NR_newRAT-Core

R2-1815388 Discussion on NAS-AS misaligned issues in INACTIVE state Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1815389 NAS-AS misaligned issues in INACTIVE state Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0478 - F NR_newRAT-Core

R2-1815363 Correction on Qoffset_temp condition Samsung Electronics CR Rel-15 38.331 15.3.0 0472 - F NR_newRAT-Core
=> Not agreed

R2-1814727 CR to 38.331 on the usage of Qoffset upon T319 expiry Ericsson CR Rel-15 38.331 15.3.0 0370 - F NR_newRAT-Core

R2-1814726 Usage of Qoffset temp upon T319 expiry Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814635 Further aspects of PLMN information in 2-step resume procedures Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815575

R2-1815575 Further aspects of PLMN information in 2-step resume procedures Ericsson discussion Rel-15 NR_newRAT-Core

R2-1813625 On selecting a new PLMN in RRC_INACTIVE Samsung discussion Rel-15 NR_newRAT-Core CR Rel-15 38.331 15.3.0 0272 - F NR_newRAT-Core

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R2-1814921 CR to 38.331 on missing ResumeRequest1 message Ericsson CR Rel-15 38.331 15.3.0 0401 - F NR_newRAT-Core

R2-1814260 Correction on suspend/resume procedure MediaTek Inc. CR Rel-15 38.331 15.3.0 0297 - F NR_newRAT-Core

R2-1814297 Correction for the Start Condition on T319 (S025) Samsung Electronics CR Rel-15 38.331 15.3.0 0304 - F NR_newRAT-Core

R2-1814406 Correction on RRC resume Google Inc. CR Rel-15 38.331 15.3.0 0319 - F NR_newRAT-Core

R2-1813611 Correction to RRC connection resume Google Inc. CR Rel-15 38.331 15.3.0 0182 - F NR_newRAT-Core

R2-1814900 CR to 38.331 on AS-NAS interaction for RRC Reject Ericsson LM CR Rel-15 38.331 15.3.0 0394 - F NR_newRAT-Core
=> Revised in R2-1815599

R2-1815599 CR to 38.331 on AS-NAS interaction for RRC Reject Ericsson LM CR Rel-15 38.331 15.3.0 0394 1 F NR_newRAT-Core

R2-1814916 CR to 38.331 on MAC configuration during Reject Ericsson CR Rel-15 38.331 15.3.0 0400 - F NR_newRAT-Core

R2-1814915 MAC configuration during reject Ericsson discussion Rel-15 NR_newRAT-Core

R2-1815114 CR on 38331 RRC connection resume procedure ITRI CR Rel-15 38.331 15.3.0 0443 - F NR_newRAT-Core

Withdrawn

R2-1814422 Resume handling details Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0323 - F NR_newRAT-Core Late

R2-1814640 CR to 38.331 on AS-NAS interaction for RRC Reject Ericsson CR Rel-15 38.331 15.3.0 F NR_newRAT-Core Withdrawn

Late

R2-1815560 CR on TS38.331 for T390 in UAC Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0500 - F NR_newRAT-Core Late

10.4.1.3.7 Connection release procedure

Including release from connected to inactive and connected to inactive.

Security for release

R2-1813999 Security for RRC connection release Intel Corporation discussion Rel-15 NR_newRAT-Core

- Ericsson think the security content is not always needed, and the eNB already has the ability to request the UE context if it wants it.
- ZTE think that there could be a fraud BS or a bad eNB implementation that that cause the problem for proposal 4. For the fraud case we should specify that the UE should not act on the message. MediaTek think we still need the UE to go to idle.
- ZTE think the UE should ignore the message because the proper BS might still reply.
- Ericsson thinks that we can rely on the generic handling to cover this erroneous message which results in the UE going to idle.
- Intel think what we have so far is that the UE ignores non comprehended fields.
- Apple think network should follow the rule and otherwise the UE should go to idle
- Qualcomm think the better approach is for the UE to ignore the whole message without transition
- MediaTek think it is not a problem that a fake gNB can send the UE to idle.
- Nokia think that it is ok for UE to go to idle.

Agreements

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1: Integrity protection required for RRC connection release carrying Re-direction, Dedicated frequency reselection priorities, De-prioritisation information, and SuspendConfig. (When integrity protection is started ciphering will also be started according to our protocol design)
2: RAN2 understand that CN will provide the UE security context for the cases that the gNB wants to be able to provide these parameters in the release.
3: RRC Release can be sent before AS security activation.
4: UE shall release the RRC connection but ignore the Re-direction, Dedicated frequency reselection priorities, De-prioritisation information, and SuspendConfig fields if included in an RRC release message received before security activation.

=> Whether NAS recovery needs to be triggered can be discussed as part of the offline in the LS, and CT1 could be added to the LS if needed
=> Draft LS to SA3 in R2-1815957 to explain our agreements(Offline discussion 74, Intel)

R2-1815957 [DRAFT] Reply LS on security requirements for RRC connection release Intel LS out Rel-15 NR_newRAT-Core To:SA3
=> Approved in R2-1816053

R2-1814000 Security for RRC connection release Intel Corporation CR Rel-15 38.331 15.3.0 0242 - F NR_newRAT-Core
=> Add the fields into the table
=> Agreed in principle in R2-1815958

R2-1814167 Resolving security requirements in RRC connection release LG Electronics France CR Rel-15 38.331 15.3.0 0284 - F NR_newRAT-Core
R2-1814080 Integrity protection of RRC Release including redirect info Ericsson discussion Rel-15 NR_newRAT-Core
R2-1814081 CR to 38.331 on removing support for re-direct prior to RRC security establishment Ericsson CR Rel-15 38.331 15.3.0 0251 - F NR_newRAT-Core
R2-1815390 on security of RRC Release Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0479 - F NR_newRAT-Core
R2-1815391 Draft LS for the security of RRC Release Huawei, Hisilicon LS out Rel-15 NR_newRAT-Core To:SA3

Other

R2-1814826 Removal of UE context in case of PLMN change in INACTIVE state [H323] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0382 - F NR_newRAT-Core
=> Move the NAS spec reference into the normative text and remove the note completely
=> Revised in R2-1815959 (Offline discussion 75)

R2-1815959 RRC connection release triggered by upper layers [H323] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0382 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814923 RRC Connection Release triggered by upper layer Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814088 CR to 38.304 on Release and Redirect in 2-step procedure Ericsson CR Rel-15 38.304 15.1.0 0056 - F NR_newRAT-Core
=> Reword " On transition from RRC_CONNECTED to RRC_IDLE state or RRC_INACTIVE state " to allow the redirection to be performed for Release in response to Resume Request
=> Revised in R2-1815961 (Offline discussion 76)

R2-1815961 CR to 38.304 on Release and Redirect in 2-step procedure Ericsson CR Rel-15 38.304 15.1.0 0056 1 F NR_newRAT-Core
=> Agreed in principle

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R2-1814086 Release and Redirect in 2-step procedure Ericsson discussion Rel-15 NR_newRAT-Core
R2-1814087 CR to 38.300 on Release and Redirect in 2-step procedure Ericsson CR Rel-15 38.300 15.3.0 0085 - F NR_newRAT-Core

R2-1814298 Aligning the Text Procedure for the Suspend RBs Samsung Electronics discussion Rel-15 NR_newRAT-Core
R2-1814299 CR on Aligning the Text Procedure for the Suspend RBs in NR Samsung Electronics CR Rel-15 38.331 15.3.0 0305 - F NR_newRAT-Core
R2-1814352 CR on Aligning the Text Procedure for the Suspend RBs in LTE Samsung Electronics CR Rel-15 36.331 15.3.0 3606 - F NR_newRAT-Core

R2-1814160 CR on UE handling for suspendConfig Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0279 - F NR_newRAT-Core
=> To be considered as part of the offline ion the AS context stored in inactive

R2-1814920 Handling of timer T320 (cell reselection priorities) upon RRCRelease Ericsson discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814951 Correction on CN type indication for Redirection from NR to E-UTRA Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0406 - F NR_newRAT-Core
=> The CR should be aligned to the outcome of the offline discussion triggered by the eLTE session
=> Revised in R2-1815962 (Offline discussion 77)

R2-1815962 Correction on CN type indication for Redirection from NR to E-UTRA Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0406 1 F NR_newRAT-Core
=> Agreed in principle

R2-1815126 Discussion on releaseCause in RRCRelease Samsung Electronics discussion
=> Remove the " Editor's Note: FFS Whether there needs to different release causes and actions associated. ". To be included in the rapporteur clean-up CR.

R2-1814628 Slicing based waitTimer Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815570
R2-1815570 Slicing based waitTimer Ericsson discussion Rel-15 NR_newRAT-Core
R2-1815316 Timer based RRC state transition from INACTIVE to IDLE Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core
R2-1815317 Discussion on timer based state transition from CONNECTED to inactive Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

Withdrawn

R2-1814300 CR on Aligning the Text Procedure for the Suspend RBs in LTE Samsung Electronics CR Rel-15 38.331 15.3.0 0306 - F NR_newRAT-Core Withdrawn

10.4.1.3.8 Security procedures

Including initial security activation and counter check procedure.

R2-1814285 Clarification on Counter check procedure Samsung Research America CR Rel-15 38.331 15.3.0 0302 - C NR_newRAT
=> Change to Cat F
=> Impact analysis also need to be updated
=> Add spec reference to PDCP spec
=> Agreed in principle in R2-1815963

R2-1815240 Avoiding unnecessary derivation of user plane keys [H241] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0455 - F NR_newRAT-Core
=> Not agreed

R2-1814922 Derivation of user plane keys Ericsson discussion Rel-15 NR_newRAT-Core
R2-1813791 38.331CR Corrections on UP security activation OPPO CR Rel-15 38.331 15.3.0 0213 - F NR_newRAT-Core
=> Remove all the changes to the procedure text
=> Field description updates can be discussed offline
=> Revised in R2-1815965 (Offline discussion 78)

R2-1815965 38.331CR Corrections on UP security activation OPPO CR Rel-15 38.331 15.3.0 0213 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814085 CR to 38.331 on protection of RRC messages table Ericsson CR Rel-15 38.331 15.3.0 0252 - F NR_newRAT-Core
=> Agreed in principle

R2-1815175 Further consideration on handling of DRB integrity verification failure LG Electronics Inc. discussion Rel-15 NR_newRAT-Core R2-1812585

Withdrawn

R2-1814845 Avoiding unnecessary derivation of user plane keys [H241] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0386 - F NR_newRAT-Core Withdrawn

10.4.1.3.9 Inactive

Including aspects of inactive not addressed by the AI 10.4.1.3.6 on the resume procedure
Including the confirmation, or otherwise, of the working assumption from RAN2 NR AH1807 on behaviour of a UE in Inactive going out of service.

Working assumtpion on behaviour of a UE in Inactive going out of service

R2-1813969 Handling out-of-coverage during RRC_INACTIVE (I251) Intel Corporation discussion Rel-15 NR_newRAT-Core R2-1811652

Show of hands

a/ goes to IDLE immediately (could be specified in AS or NAS) [5]

b/ remains in RRC_INACTIVE and then goes to IDLE when RNAU update timer expires or until the UE NAS initiates signalling (RRC also to be updated to ensure that RNAU is not triggered on acceptable cell) [12]

Agreements
1 If the UE enters "Any cell selection" the UE remains in RRC_INACTIVE
2 If the UE camps on an acceptable cell (i.e. “Camped on any cell” state) the UE remains in RRC_INACTIVE and then goes to IDLE when RNAU update timer expires or until the UE NAS initiates signalling (RRC also to be updated to ensure that RNAU is not triggered on acceptable cell)

=> Draft LS to CT1 in R2-1815988 to inform them of our decisions (Offline discussion 84, Samsung)
=> Samsung to submit a CR (or CRs) to next meeting

R2-1815988 [DRAFT] LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service Samsung LS out Rel-16 NR_newRAT-Core To:CT1
=> Update next meetings
=> Approved in R2-1816014

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R2-1813624 On UE behaviour upon going out of service Samsung discussion Rel-15 NR_newRAT-Core R2-1812958

R2-1815350 Emergency Call for RRC Inactive UE Camped on Any Cell MediaTek Inc. discussion R2-1811175

R2-1814425 Working assumption of INACTIVE state Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1814830 State transition for inactive UE Lenovo, Motorola Mobility discussion Rel-15 NR_newRAT-Core R2-1812757

R2-1815109 Discussion on the working assumption for RNAU handling ITRI discussion NR_newRAT-Core R2-1812707

RNAU without UE context relocation

R2-1814133 Support of RNA update without context relocation Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> Draft LS to RAN3 in R2-1815989 to inform them that we have discussed this issue and do not intend to modify RAN2 specs to resolve the problem, and leave RAN3 to conclude how it can be addressed without RAN2 impact (Offline discussion 85, Huawei)

R2-1815989 [DRAFT] LS on RNAU without context relocation Huawei LS out Rel-15 NR_newRAT-Core To:RAN3
=> Approved in R2-1816057

R2-1814134 CR on resumeMAC-I calculation to support RNAU without context relocation Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0264 - F NR_newRAT-Core

R2-1814131 Security of MSG4 in case of RNAU without context relocation Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814132 Draft LS on RNAU without relocation Huawei, HiSilicon LS out Rel-15 NR_newRAT-Core To:SA3
=> No agreement to send LS to SA3

R2-1813602 RNAU without UE context relocation Qualcomm Incorporated discussion R2-1811698

R2-1813973 RNAU without UE context relocation Intel Corporation discussion Rel-15 NR_newRAT-Core

Other

R2-1814135 Discussion on security algorithm negotiation issue for Resume, RNAU and Reestablishment Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814824 Introduction of algorithm in RRCRelease Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0380 - F NR_newRAT-Core

R2-1814825 Introduction of algorithm in RRCReestablishment Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0381 - F NR_newRAT-Core

R2-1815528 CR on security negotiation for resume procedure (fallback) Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0495 - C NR_newRAT-Core

R2-1814423 Unnecessary limitation in RAN area configuration Nokia, Nokia Shanghai Bell, Samsung discussion Rel-15 NR_newRAT-Core

R2-1814424 Unnecessary limitation in RAN area configuration Nokia, Nokia Shanghai Bell, Samsung CR Rel-15 38.331 15.3.0 0324 - F NR_newRAT-Core

R2-1814004 RIL I118 on release case to upper layers for CN paging for a UE in RRC_INACTIVE Intel Corporation CR Rel-15 38.331 15.3.0 0244 - F NR_newRAT-Core

R2-1814381 [RIL]G107 Correction on going to RRC_IDLE behviours Google Inc. CR Rel-15 38.331 15.3.0 0313 - F NR_newRAT-Core

R2-1815318 Discussion on RNA configuration Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1815277 RRC State Mismatch Problem with RRC_Inactive Samsung discussion NR_newRAT-Core

10.4.1.3.10 Access control

RAN specific AC

R2-1813644 Addition of RAN specific Access Category Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0188 - F NR_newRAT-Core
=> Fix editorial on the quotes
=> Revised to R2-1816029

R2-1816029 Addition of RAN specific Access Category Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0188 2 F NR_newRAT-Core
=> Agreed in principle

R2-1814089 CR to 38.331 on access category for RNA update Ericsson CR Rel-15 38.331 15.3.0 0253 - F NR_newRAT-Core

T302 stopping

R2-1813972 Handling on T302 Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1814187 Remaining issue on T302 handling vivo discussion Rel-15 NR_newRAT-Core
- Discussed jointly with the previous paper
- Qualcomm support to leave it running
- LG think we should aligned with the barring timer and so it can be stopped in this case.
- Ericsson also agree to align with T390 and if network has provided resources for the UE then it might as well be allowed to do other things
- MediaTek think the timer should be stopped
- Xiaomi think the timer should be left running.
- Huawei think it is simpler to let it continues and avoids other potential corner cases to address.
- Samsung share the view that the timer should be stopped. CATT also think the timer should be stopped.

Agreement
1 The wait timer T302 (if running) is stopped when UE receives RRC Resume or RRC Setup message to enter RRC CONNECTED.

R2-1814097 Stopping T302 and related UE actions Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814098 CR to 38.331 on stopping T302 and related UE actions Ericsson CR Rel-15 38.331 15.3.0 0257 - F NR_newRAT-Core

R2-1814742 The discussion on wait timer T302 Xiaomi Communications discussion

R2-1815128 Remaining issues on T302 Handling Samsung Electronics discussion R2-1812855

R2-1814420 T302 stopping procedural text Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0321 - F NR_newRAT-Core

R2-1813820 Remain issue for T302 and T390 CATT CR Rel-15 38.331 15.3.0 0216 - F NR_newRAT-Core
=> Revised just stop T302
=> Offline discussion to conclude the UE behaviour when the UE receives a Reject message (with and without wait timer) when the wait timer is running
=> Revised in R2-1815992 (Offline discussion 86)

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R2-1815992 Remain issue for T302 and T390 CATT CR Rel-15 38.331 15.3.0 0216 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814129 Discussion on stopping of T302 upon paging Huawei, HiSilicon discussion NR_newRAT-Core

Other

R2-1814102 CR to 38.331 on stopping T390 and UE related actions Ericsson CR Rel-15 38.331 15.3.0 0259 - F NR_newRAT-Core
=> Add that T390 is stopped for all access categories
=> Cell selection case needs to be covered (including or Release and Re-establishment cases)
=> Further aspects to be discussed offline
=> Revised in R2-1815993 (Offline discussion 87)

R2-1815993 CR to 38.331 on stopping T390 and UE related actions Ericsson CR Rel-15 38.331 15.3.0 0259 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814101 Stopping T390 and UE related actions Ericsson discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814247 T302 timer exemption for MPS Vencore Labs, OEC CR Rel-15 38.331 15.3.0 0293 - F NR_newRAT-Core
=> Draft LS in R2-1815994 to SA1 (cc CT1) asking about the requirements regarding MPS (Offline discussion 88, Vencore)

R2-1815994 [DRAFT] LS to SA1 on RRCReject T302 Timer Exemption for MPS and MCS Vencore Labs LS out Rel-15 NR_newRAT-Core To:SA1 Cc:CT1

✉ **[103bis#03][NR] MPS LS to SA1 (Vencore)**
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18

R2-1813646 Clarification to no barring configuration for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0189 - F NR_newRAT-Core

R2-1813648 Correction to Access Category and barring config determination for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0190 - F NR_newRAT-Core

R2-1813821 [C245] Corrrection on barring alleviation notification procedure CATT CR Rel-15 38.331 15.3.0 0217 - F NR_newRAT-Core

R2-1814827 CR to correct alleviation of access barring [H248] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0383 - F NR_newRAT-Core

R2-1814090 CR to 38.331 on access barring check after handover Ericsson CR Rel-15 38.331 15.3.0 0254 - F NR_newRAT-Core

R2-1814091 CR to 36.331 on access barring check after handover Ericsson CR Rel-15 36.331 15.3.0 3593 - F LTE_5GCN_connect-Core

R2-1814092 CR to 38.331 on removal of access control related FFS Ericsson CR Rel-15 38.331 15.3.0 0255 - F NR_newRAT-Core

R2-1815487 The handling of exceptional cases for UAC Xiaomi Communications CR Rel-15 38.331 15.3.0 0490 - F NR_newRAT-Core

R2-1815461 The handling of exceptional cases for UAC Xiaomi Technology discussion

Late

R2-1814732 The remaining issues of T390 Xiaomi Communications discussion Late

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10.4.1.3.11 Other

Including corrections related to RLM/RLF
Including output of email discussion [103#45][NR] RLC failure information reporting (Samsung)
Including overheating for NR standalone as requested by RAN in RP-182074.

RLC failure information reporting

R2-1814746 Report of [103#45][NR] RLC failure information reporting Samsung Telecommunications report Rel-15 NR_newRAT-Core

Agreements
1: Re-use the following existing principles:
a) Transfer/ SRB options: re-use existing principles
   1) For MCG RLC bearers, RLC failure is reported via SRB1
   2) For SCG RLC bearers, RLC failure is reported via SRB3, if configured, and via SRB1 otherwise
b) LTE message for reporting failing MCG RLC bearers, re-use message introduced for HRLLC duplication
   1) Use the LTE RRC FailureInformation message to report RLF failure of MCG RLC bearers
c) Messages used to report failing SCG RLC bearers via SRB1/ LTE: re-use existing principles
   1) Transfer an NR RRC message within the ULInformationTransferMRDC message (alike for NR MeasurementReport)
   2) Use the same NR RRC message as used when reporting the failure via SRB3
d) Configurability: none i.e. alike for SCG failure and routing of NR MR messages
   1) A UE configured with CA duplication always reports RLC failure and uses the direct path if available and the indirect path otherwise (i.e. no configuration)

2: The NR RRC message for reporting of RLC failures should re-use the same message contents as the LTE RRC equivalent message (failing logical channel identity, cell group and failure type)

3 The NR RRC message for reporting of RLC failures should be designed to support indication of other failure information (i.e. the RLC failure information should be optional in the message), alike in LTE

4 SCG failure (for late drop cases) should be reported by means of a NR RRC message separate from the one used for reporting of RLC failures

5: The NR RRC message for reporting of RLC failures does (for now) not include measurement results.

R2-1814747 Introducing procedure for reporting RLC failures Samsung Telecommunications CR Rel-15 38.331 15.3.0 0376 - B NR_newRAT-Core
=> Correct " FailureInfoRLF-Bearer " in the ASN.1
=> Other details can be progressed offline
=> Revised in R2-1815966 (Offline discussion 79)

R2-1815966 Introducing procedure for reporting RLC failures Samsung Telecommunications CR Rel-15 38.331 15.3.0 0376 1 B NR_newRAT-Core
=> Agreed in principle

R2-1814748 Corrections regarding RLC failure reporting Samsung Telecommunications CR Rel-15 36.331 15.3.0 3629 - F NR_newRAT-Core, LTE_HRLLC-Core
=> Revised in R2-1815967 (Offline discussion 79)

R2-1815967 Corrections regarding RLC failure reporting Samsung Telecommunications CR Rel-15 36.331 15.3.0 3629 1 F NR_newRAT-Core, LTE_HRLLC-Core
=> Agreed in principle

R2-1815522 RLC max retransmissions report for non-duplication case [S057] Samsung discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1815523 RLC Failure Information on max RLC retransmissions for general case [S057] Samsung CR Rel-15 38.331 15.3.0 0493 - F NR_newRAT-Core

Overheating

R2-1815142 UE overheating support in NR SA scenario Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

Agreements
1: Similar to LTE, the gNB configures the UE to report the overheating assistance information in the RRC Reconfiguration message.
2: Similar to LTE, the UE reports the overheating assistance information in the UE Assistance Information message.
3 The UE's request for reconfiguration should be able to include the following: Reduced number of CCs (UL and DL)
4: Introduce an UE capability to indicate whether the UE supports overheating assistance information.
5 Introduce prohibit timer to prohibit frequent report of the overheating assistance information.
6 Overheating assistance info can be passed from source to target at handover

FFS whether any other content could be included in the request (e.g. Reduced MIMO rank (UL and DL), Reduced BWP width (UL and DL), PSCell/SCell(s) to be released, Requests can be per UE or per CC or per FR, Aggregated BW across all carriers, FR indication, etc)

✉ **[103bis#16][NR] Overheating (Huawei)**
Progress the content of the overheating assistance information and progress the CR
Intended outcome: Report to next meeting, draft CR to the next meeting
Deadline: Thursday 2018-11-01

R2-1815143 CR on signalling introduction of UE overheating support in NR SA scenario Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0451 - F NR_newRAT-Core

R2-1815144 CR on introduction of UE overheating support in NR SA scenario Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0046 - F NR_newRAT-Core

R2-1814966 Introduction of overheating indication for NR SA Intel Corporation CR Rel-15 38.331 15.3.0 0413 - F NR_newRAT-Core

R2-1814970 Introduction of overheating indication for NR SA Intel Corporation CR Rel-15 38.306 15.3.0 0041 - F NR_newRAT-Core

R2-1814182 Temporary capability restriction for overheating vivo discussion Rel-15 NR_newRAT-Core

R2-1814500 Temporary UE Capability Restriction for Overheating Issues OPPO discussion

R2-1814578 UE overheating and capability restrictions Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814579 UE overheating and capability restrictions Ericsson CR Rel-15 38.331 15.3.0 0356 - F NR_newRAT-Core

R2-1813672 Temporary capability restriction for UE overheating MediaTek Inc. discussion Rel-15 NR_newRAT-Core

R2-1814753 UE assistance parameters for overheating with NR Samsung Telecommunications discussion Rel-15 NR_newRAT-Core

RRC processing delay

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R2-1814556 RRC UE processing time for Standalone NR to reach ITU target Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814248 NR RRC Processing Time MediaTek Inc. discussion NR_newRAT-Core R2-1811303
- Discussed together with the previous paper
- Huawei think for IMT2020 we should not spend too much time trying to achieve the required value, but instead focus on completing the requirements of the spec. Think we must have some improvement over LTE.
- Qualcomm also think that IMT2020 needs to be discussed separately as it is a very specific case, but we need to consider worst case for the spec.
- Ericsson think we need a good baseline for all UEs and show that NR has performance advantage over LTE.
- Nokia also agree with Huawei and Ericsson. There needs to have been hardware improvements over LTE. CMCC share the view that NR performance should improve over LTE. ZTE share the view of the network vendors.
- Intel agree with Qualcomm and think LTE R15 is also submitted to IMT2020 and here we have a capability for the performance that meets the IMT 20202. OPPO also agree and tis that LTE can be taken as a baseline. LG support Intel and Qualcomm. Samsung also agree that s LTE is submitted to IMT2020 then it is reasonable to use LTE numbers as a baseline for NR.
- Apple think we need to think whether all UEs need to meet the same requirements give different form factors.
- MediaTek think it shouldn't be mandatory for all UEs to meet the IMT2020 requirement.

=> We aim that by the end of this quarter we agree the numbers for the RRC procedure performance table in 38.331. The focus should not be on IMT2020 requirements at this stage.

R2-1813930 RRC processing delay for BWP switching Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1813931 Introduction of processing delay requirements for RCCReconfiguration with BWP switching Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0230 - F NR_newRAT-Core

R2-1813996 RRC processing delay in NR Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1814250 NR RRC Processing Time MediaTek Inc. CR Rel-15 38.331 15.3.0 0294 - F NR_newRAT-Core

R2-1814557 RRC UE processing time for SA Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814558 RRC UE processing times in NR SA Ericsson CR Rel-15 38.331 15.3.0 0353 - F NR_newRAT-Core

R2-1814585 Discussion on processing Delay Requirements for RRC Procedures in NR Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core R2-1812941
=> Revised in R2-1815829

R2-1815829 Discussion on processing Delay Requirements for RRC Procedures in NR Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814590 CR on 38.331 to capture processing delay requirements Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0361 - F NR_newRAT-Core R2-1812459 Late

R2-1814820 RRC processing delay for RRC Resume Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1814822 Introduction of processing delay requirements for RRC Resume procedure Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0378 - F NR_newRAT-Core

R2-1815320 RRC processing delay requirement for NR Samsung Electronics GmbH discussion R2-1812575

R2-1815322 CR on RRC processing delay requirement Samsung Electronics GmbH CR Rel-15 38.331 15.3.0 0462 - F NR_newRAT-Core R2-1812576

R2-1814946 UE RRC Processing Delays in NR for EN-DC and SA Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

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Other

R2-1814239 EUTRA UE capability filtering Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0292 - F NR_newRAT-Core

R2-1814277 Reset RLF timer and counter while configuration change MediaTek Inc. CR Rel-15 38.331 15.3.0 0300 - F NR_newRAT-Core

R2-1814282 Default radio configurations in full configuration MediaTek Inc. CR Rel-15 38.331 15.3.0 0301 - F NR_newRAT-Core

R2-1814527 Miscellaneous corrections related to p-Max Ericsson CR Rel-15 38.331 15.3.0 0347 - F NR_newRAT-Core

R2-1815063 RIL G301: SRB3 integrity protection failure handling Ericsson CR Rel-15 38.331 15.3.0 0429 - F NR_newRAT-Core

R2-1813878 Miscellaneous corrections for 38.331 Spreadtrum Communications CR Rel-15 38.331 15.3.0 0228 - F NR_newRAT-Core

R2-1814302 CR on the Clarification for the support of the delay budget report in NR Samsung Electronics CR Rel-15 38.331 15.3.0 0307 - F NR_newRAT-Core

R2-1814301 Clarification for the Support of Delay Budget Report in NR Samsung Electronics discussion Rel-15 NR_newRAT-Core

R2-1815341 CR for TS38.331 on DelayBudgetReport Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0465 - F NR_newRAT-Core

R2-1814126 Discussion on support of mobility history information Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1811721

R2-1814659 SCell-RLF discussion Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814660 SCell-RLF (38.331) Ericsson CR Rel-15 38.331 15.3.0 0367 - F NR_newRAT-Core

R2-1814834 Mobility history information in NR Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1815359 The Necessity of T312 in NR Samsung Electronics discussion Rel-15 NR_newRAT-Core R2-1812700

R2-1814525 DRX value range in Idle and Inactive mode in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814526 Extension of the defaultpagingCycle range Ericsson CR Rel-15 38.331 15.3.0 0346 - F NR_newRAT-Core

Withdrawn

R2-1814528 Miscellaneous corrections Ericsson CR Rel-15 38.331 15.3.0 0348 - F NR_newRAT-Core Withdrawn

R2-1814683 RIL G301: SRB3 integrity protection failure handling Ericsson CR Rel-15 36.331 15.3.0 3625 - F NR_newRAT-Core Withdrawn

R2-1815482 Miscellaneous corrections related to p-Max Ericsson CR Rel-15 38.331 15.3.0 0488 - F NR_newRAT-Core Withdrawn

R2-1815483 Miscellaneous corrections Ericsson CR Rel-15 38.331 15.3.0 0489 - F NR_newRAT-Core Withdrawn

10.4.1.4 RRM measurements

No documents should be submitted to 10.4.1.4. Please submit to 10.4.1.4.x.

10.4.1.4.1 RRM

MO

R2-1814823 Correction of frequency band indication in MeasObjectNR Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0379 - F NR_newRAT-Core

- Huawei think this freq band must be provided if the measurement object is to be measured. Samsung think it is not needed in all cases.
- Intel think that currently it might not be needed in all cases but new bands can be added in future and then it will be required.

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=> Add in the field description that the freq band must be provided if the MO is to be measured.
=> RRC to be changed to RRM
=> Revised in R2-1815942 (Offline discussion 66)

R2-1815942 Correction of frequency band indication in MeasObjectNR Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0379 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814138 Inapplicability of SMTC in MeasObjectNR upon handover Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
- Ericsson think the network should be able to decide whether to reconfigure the SMTC after a handover.
- MediaTek agree that the network needs to do proper reconfiguration when the PCell timing changes.
- Nokia agree with the observations but think that nothing needs to be done as network can handle this.

=> RAN2 understand that it is up to the network to reconfigure SMTC after there is a change of timing due to PCell or PSCell change.

R2-1814828 Correction to configuration of measurement object [H349] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0384 - F NR_newRAT-Core
- Intel think the proposal is reasonable and think the restriction should also apply in case of EN-DC when same MO is configured by eNB and gNB. This is aligned to the high level assumption taken earlier that the eNB and gNB configurations are consistent.
- Nokia think this is resolved by the SSB to measure.
- Samsung think the proposal is reasonable and think we can just have a single SMTC within NR.
- ZTE think for intra-freq case we can have 2 SMTC configurations.
- Intel think the RSSI measurement also need to be aligned. ZTE think that RSSI can only be measured based on one MO. Huawei agrees for NR but not for EN-DC

=> To also capture the RSSI and EN-DC cases
=> Offline discussion to conclude the wording
=> Revised in R2-1815943 (Offline discussion 67)

R2-1815943 Correction to configuration of measurement object [H349] Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0384 1 F NR_newRAT-Core
=> Agreed in principle

Events

R2-1814457 On the neighbourhood in A3 and A6 events Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core R2-1812312
- Intel think that for A6 is only for intra-freq and intra-freq neighbours and hence cannot include SCells.
- Huawei think A6 uses a single measurement object and there is only one serving cell involved so it can't be triggered any other serving cell.

=> Noted

R2-1814458 A3 and A5 corrections - neighbouring cell definition Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0335 - F NR_newRAT-Core
=> Replace the text " for events involving a serving cell associated with a measObjectNR and neighbours associated with another measObjectNR " with explicit reference to event A3 or A5 (in a similar way to done for A1 and A2)
=> Revised in R2-1815944 (Offline discussion 68)

R2-1815944 A3 and A5 corrections - neighbouring cell definition Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0335 1 F NR_newRAT-Core
=> Agreed in principle

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R2-1814159 CR on threshold description for cell quality derivation Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0278 - F NR_newRAT-Core
=> Agreed in principle

R2-1815012 Clarification on measurement event Apple discussion Rel-15 NR_newRAT-Core
- ZTE think we need to discuss whether the PSCell and SCells can trigger the B1 in LTE when EN-DC is active.
- Apple agree that B1 should be discussed.
- Samsung assume that the serving cells triggering B events would not be consistent with the stage 2 agreement that we took that SN manages the mobility for the SCG cells. Huawei think this would require extra requirements in LTE spec which will be more complex for the UE.

=> Offline discussion on whether NR PSCell and SCells can trigger B events for EN-DC case (Offline discussion 69, Apple)

R2-1815996 Summary of offline discussion 69 (i.e. B event in EN-DC) Apple discussion

Agreement
1: Event B1 and B2 can be configured on NR serving frequencies in EN-DC.
2: NR PSCell and NR SCells can trigger event B1 and event B2 in EN-DC.

R2-1815997 Clarification on B events in EN-DCApple CR Rel-15 36.331 15.3.0 3679 F NR_newRAT-Core
=> Change sentence to "consider a serving cell, if any, on the associated NR frequency as neighbouring cell"
=> Agreed in principle in R2-1816032

Reporting

R2-1814156 Correction on cell sorting for periodical measurement reporting Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0275 - F NR_newRAT-Core
- ZTE prefer to place this in 5.5.5.2 to avoid duplication
- Qualcomm suggest a new section with all the sorting rules

=> Aim to capture all the soring rules, including the missing ones identified by this CR, in a single section to avoid duplication.
=> CR to be submitted to the next meeting

R2-1814162 Discussion on NR serving cell measurement result inclusion in measurement reportHuawei, HiSilicon discussion Rel-15 NR_newRAT-Core
- MediaTek think this is a real issue to be addressed and think it can be resolved by a default value. Nokia would prefer to define default values in order to reduce spec impact.
- LG would prefer to add the missing parameters. Vivo would prefer to add the missing parameters.
- Huawei clarify the missing parameters only relate to things added with SA and not EN-DC
- Qualcomm think we can just define a default.

✉ **[103bis#17][NR] NR serving cell measurements (Huawei)**
Discuss how to address the issues identified in R2-1814162
Intended outcome: Agreeable CR (if needed)
Deadline: Thursday 2018-11-01

R2-1814163 CR on NR serving cell measurement result inclusion in measurement report Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0281 - F NR_newRAT-Core

R2-1814161 CR on value range for RSRQ-Range Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0280 - F NR_newRAT-Core
=> Not agreed (RAN4 can define 127 in their specs if they need to use it)

Location info

R2-1813817 CR to 38.331 on removing FFS of locationInfo Qualcomm Incorporated draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core
- Vivo think this is not needed as MDT is not supported this release.
- Nokia also think this can be discussed in the MDT SI.
- Ericsson think this is useful to include this information as in LTE.
- ZTE also think this can be discussed in release 16

=> locationInfo will not be supported in R15
=> CR is agreed in principle

R2-1814644 Location Information configuration and reporting Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815583

R2-1815583 Location Information configuration and reporting Ericsson discussion Rel-15 NR_newRAT-Core

R2-1815315 Discussion on location information supported in measurement report Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

SFTD measurements

R2-1813943 Further clarification on SFTD measurement ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core
- Ericsson think this information is already provide from the SN to the MN to enable MN to set the frequency.
- Huawei agree that this is already provided.
- ZTE think we only have an FR1/FR2 indication but no ARFCN.
- Nokia agree the information is not present but think it can be fixed by approach 3 and instead think the MN can configure the MO with any frequency.
- MediaTek understand that the MO should indicate the correct frequency of the PScell. Intel also prefer the correct frequency is used. LG have same view. Qualcomm have same view.
- Nokia think it is a big burden for SN to always have to inform the MN of the PSCell
- ZTE think this is only needed after SN change case.

=>

Agreements
1: In EN-DC, when reportSFTD-Meas is set to PSCell, MN includes the frequency of PSCell in the associated MeasObjectNR.
2: SN can inform the frequency of selected PSCell to MN at least upon PSCell Addition procedure.

R2-1813944 CR for introducing PSCell frequency in CG-Config ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0235 - F NR_newRAT-Core
=> Clarification regarding agreement 1 above should be added
=> Revised in R2-1815948 (Offline discussion 70)

R2-1815984 Clarification on measObjectNR of SFTD between PCell and PSCell ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3678 F NR_newRAT-Core
=> Agreed in principle

R2-1815948 CR for introducing PSCell frequency in CG-Config ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0235 1 F NR_newRAT-Core
=> Agreed in principle

SMTC in HO/redirection

R2-1814183 Missing SMTC for HO and intra-NR redirection vivo discussion Rel-15 NR_newRAT-Core

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- Nokia think it is a valid case that this will not be provided, and that it shouldn't be left to implementation but that a 5ms periodicity should be assumed
- Vivo think the offline from last meeting there was agreement that this information would always be provided. So wonder why it can be provided in SIB but not in the release.
- Huawei think if the network has it in the SIB then it should provide it in the redirection.
- MediaTek think that UE doesn’t have SIB4 in connected so we should not rely on UE reading SI.

=> RAN2 understand that upon NR redirection and HO the SMTC information of the target frequency should be notified to UE if gNB has such information, otherwise, the UE will follow the cell search procedure in 4.1 of TS 38.213

=> Can be discussed at next meeting based upon CRs whether anything needs to be captured in the specification.

R2-1814447 Usage of SMTC information from SIB in Release and Redicted Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814539 On Usage of SMTC information from SIB in Release and Redicted Ericsson CR Rel-15 38.331 15.3.0 0351 - F NR_newRAT-Core

Other

R2-1814158 CR on measurement related actions upon handover and re-establishment Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0277 - F NR_newRAT-Core

=> Postponed for next meeting

R2-1813986 Issues on SCG Failure measurement reporting Intel Corporation discussion Rel-15 NR_newRAT-Core

- Huawei agree that the situation is fuzzy for the CSI-RS case but think the meas ID wouldn’t help as the MN doesn't know the measurement configuration.
- Ericsson would propose to provide the SCS.
- Huawei think multiple SCS on the same frequency so it might not a solution for all cases. The only real solution it to provide the exact configuration that was measured.
- ZTE think that SCS is sufficient to solve the issue. Think it too late for EN-DC but it could be fixed for other cases.
- MediaTek think this is just assistance info to the network so this is not very critical to solve.
- Samsung would prefer nothing for now and discuss for a future release. Qualcomm have the same view.
- ZTE would like to fix it for NR-NR DC

=> This issue will not be fixed for EN-DC. Can still consider whether to fix it for NR-NR-DC

R2-1814164 CR to avoid unnecessary L3 filtered beam measurements Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0282 - F NR_newRAT-Core

=> Agreed in principle

R2-1814968 Invalid measurement configuration Intel Corporation, MediaTek Inc, Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0415 - F NR_newRAT-Core

=> Not agreed

R2-1814505 On procedural correction on measurements Ericsson CR Rel-15 38.331 15.3.0 0342 - F NR_newRAT-Core

=> Agreed in principle

Optimisations

R2-1814139 Discussion on measObject swapping upon handover Huawei, HiSilicon, Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1814459 Corrections to measId linking upon the handover Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0336 - F NR_newRAT-Core

R2-1814140 Ensuring that all candidate cells for handovers are reported Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814141 CR on reporting measurement results of cells within x dB of best triggered cell Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0265 - F NR_newRAT-Core

R2-1814142 Removal of measurement reporting entries upon modification of measurement object or report configuration Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814143 CR on unnecessary removing measurement reporting entry Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0266 - F NR_newRAT-Core

R2-1814439 Triggering conditions for A1-A6 events in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814440 Impact of cell quality scaling in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814441 Measurement priority handling in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814442 Triggering of L3 filtered beam measurements Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814448 Measurement related actions upon handover and re-establishment Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814449 On MeasSubframePatternNeigh in measObjectEUTRA in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1815314 Discussion on measurement priority handling in NR Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1814445 s-Measure configuration and UE behaviour Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814583 CR on s-Measure to 36.331 Ericsson CR Rel-15 38.331 15.3.0 0358 - F NR_newRAT-Core R2-1812256

R2-1815352 Applicability of s-measure in NR Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1815353 CR to 38331 for applicability of s-Measure in NR Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0466 - F NR_newRAT-Core

Withdrawn

R2-1814446 SSBurst and SSB relations in 38.300 Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1814543 freqBandIndicator clarifications in measObjectNR Ericsson CR Rel-15 38.331 15.3.0 0352 - F NR_newRAT-Core Withdrawn

Late

R2-1814485 Measurement object configured by both eNB and gNB Intel Corporation discussion Rel-15 NR_newRAT-Core Late

10.4.1.4.2 Measurement gaps

R2-1814455 Editorial and clarifications on measurement gaps Ericsson CR Rel-15 38.331 15.3.0 0334 - F NR_newRAT-Core

=> Remove from the spec text the "i.e...." related to measurement gaps
=> Change in 5.5.1 is not needed
=> To be included in the rapporteur's misc CR

R2-1814484 CR for measurement and measurement gap Intel Corporation CR Rel-15 38.331 15.3.0 0337 - F NR_newRAT-Core

- Qualcomm explain in LTE we have general principles about the need for gaps in stage 2 and more specific details related to UE capabilities in the UE capability description.

=> The information received from RAN1/4 about when gaps are required should be captured somewhere within stage 2.

✉ **[103bis#18][NR] Measurement gaps (Intel)**
Conclude how to capture the condition under which measurement gaps are required.
Intended outcome: Agreeable CR to stage 2.

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Deadline: Thursday 2018-11-01

R2-1815086 CR for measurement and measurement gap Intel Corporation CR Rel-15 36.331 15.3.0 3648 - F NR_newRAT-Core

R2-1814531 Discussion on gap configuration for CSI-RS measurement Nokia, Nokia Shanghai Bell discussion R2-1812753
=> Noted

R2-1814532 [DRAFT] LS on gap configuration clarification for CSI-RS measurement Nokia LS out Rel-15 NR_newRAT-Core R2-1812756 To:RAN4

R2-1814136 NCSG Support in NR Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814137 Measurement Gap Capability Feedback Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

10.4.1.4.3 Inter-RAT measurements

Inter-RAT E-UTRA measurements for the purpose of inter-RAT handover from NR to E-UTRA

R2-1814452 On field descriptions on measObjectEUTRA Ericsson CR Rel-15 38.331 15.3.0 0333 - F NR_newRAT-Core
=> Agreed in principle

10.4.1.4.4 ANR

All cases of ANR (i.e. inter-RAT ANR from E-UTRA, inter-RAT ANR from NR, and intra-RAT ANR within NR) and hence both 36.331 and 38.331 impacts should be discussed in this agenda item.

Autonomous gaps

R2-1813704 Autonomous Gap capability for CGI reporting vivo discussion Rel-15 NR_newRAT-Core
- Intel think RAN4 will not complete requirements in R15 so there is no need to do this for R15
- Vivo the RAN4 response is just that there will be no performance requirements. Ericsson have same view that we could define the functionality in Rel-15
- Nokia think we could define it but think it can't be used without performance requirements. Samsung have the same view as Intel and Nokia. DOCOMO also have the same view that without performance there is no point to define signalling. MediaTek also have the same view.
- Intel think a UE can’t implement it without performance requirements.
- Huawei think the only impact would be a capability so we could do this in Rel-15
- ZTE think there is also an explicit configuration to enable autonomous gaps.

=> We will not add autonomous gaps in Rel-15

R2-1813705 [Draft] Reply LS on autonomous gap capability vivo LS out Rel-15 NR_newRAT-Core To:RAN4

R2-1814645 [E533] Autonomous gaps for CGI reporting Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815584

R2-1815584 [E533] Autonomous gaps for CGI reporting Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814646 CR to 38.331 on autonomous gaps for CGI acquisition in NR Ericsson CR Rel-15 38.331 15.3.0 0372 - F NR_newRAT-Core
=> Revised in R2-1815585

R2-1815585 CR to 38.331 on autonomous gaps for CGI acquisition in NR Ericsson CR Rel-15 38.331 15.3.0 0372 1 F NR_newRAT-Core

R2-1814647 LS to RAN4 about autonomous gaps for CGI reporting Ericsson LS out Rel-15 NR_newRAT-Core To:RAN 4
=> Revised in R2-1815586

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R2-1815586 LS to RAN4 about autonomous gaps for CGI reporting Ericsson LS out Rel-15 NR_newRAT-Core To:RAN 4

T321

R2-1814649 [E255] CR to 38.331 on corrections related to CGI reporting timer T321 Ericsson CR Rel-15 38.331 15.3.0 0371 - F NR_newRAT-Core
=> Revised in R2-1815588

R2-1815588 [E255] CR to 38.331 on corrections related to CGI reporting timer T321 Ericsson CR Rel-15 38.331 15.3.0 0371 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814650 CR to 36.331 on addition of CGI reporting timer T321 for NR Ericsson CR Rel-15 36.331 15.3.0 3628 - F NR_newRAT-Core
=> Revised in R2-1815589

R2-1815589 CR to 36.331 on addition of CGI reporting timer T321 for NR Ericsson CR Rel-15 36.331 15.3.0 3628 1 F NR_newRAT-Core
=> Agreed in principle

R2-1813702 CR on ANR Agreements for 38331 vivo CR Rel-15 38.331 15.3.0 0203 - F NR_newRAT-Core

R2-1813703 CR on ANR Agreements for 36331 vivo CR Rel-15 36.331 15.3.0 3558 - F NR_newRAT-Core

MN/SN coordination

R2-1813706 ANR coordination between MN and SN vivo discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814981 MN/SN coordination for reportCGI Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1813995 [RIL: I873] Inter-node coordination for ANR for EN-DC Intel Corporation discussion Rel-15 NR_newRAT-Core
=> Offline discussion to conclude between the 2 proposals (Offline discussion 71, Intel)
- Update from offline: The topic is postponed to next meeting

R2-1816000 Report of offline discussion 71 on ANR coordination Intel Corporation report

R2-1813994 [RIL: I873] Inter-node coordination for ANR for EN-DC Intel Corporation CR Rel-15 38.331 15.3.0 0241 - F NR_newRAT-Core

R2-1814982 CR on MN/SN coordination for report CGI procedure Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0423 - F NR_newRAT-Core

Other

R2-1814165 CR on CGI reporting Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0283 - F NR_newRAT-Core
=> Postponed to next meeting

R2-1814648 SSBs without SIB1 in CGI reporting Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815587

R2-1815587 SSBs without SIB1 in CGI reporting Ericsson discussion Rel-15 NR_newRAT-Core

10.4.1.6 System information

No documents should be submitted to 10.4.1.6. Please submit to 10.4.1.6.x.

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10.4.1.6.1 System information content/structure

Corrections to broadcast parameters required for idle mobility should be discussed in 10.4.5.x

R2-1814519 Clarification for absense of nr-NS-PmaxList IE Ericsson CR Rel-15 38.331 15.3.0 0344 - F NR_newRAT-Core
=> Agreed in principle

R2-1814518 Signalling of default spectrum emission requirements Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814028 Correction on the field description for BCCH-Config in TS38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0245 - F NR_newRAT-Core
=> Not agreed

R2-1815072 Corrections to the field decriptions of System Information Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0431 - F NR_newRAT-Core
=> "and so on" removed from BCCH-Config
=> Remove the condition for presence of areaScope and further clarify the field description
=> Remove the 2nd issue - already covered by the rapporteur clean up CR
=> Revised in R2-1815910 (Offline discussion 55)

R2-1815910 Corrections to the field decriptions of System Information Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0431 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814274 SIB size limitation [M201] MediaTek Inc. CR Rel-15 38.331 15.3.0 0298 - F NR_newRAT-Core R2-1811300
=> Change SIB to SIB1 and place SIB1 and SI message in italics
=> Agreed in principle in R2-1815911

Withdrawn

R2-1815473 Signalling of default spectrum emission requirements Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1815474 Clarification for absense of nr-NS-PmaxList IE Ericsson CR Rel-15 38.331 15.3.0 0485 - F NR_newRAT-Core Withdrawn

10.4.1.6.2 System information procedures

Corrections to SI procedures including stored SI, SI modification, SI scheduling, stored SI, etc but not including on demand SI.

PWS reception

R2-1814947 Considerations on PWS notification Qualcomm Incorporated, Apple discussion Rel-15 NR_newRAT-Core

- Nokia wonder whether this is needed or not. Ericsson also question whether it is needed given that these warning systems are not used frequently and so it is not likely a big power consumption impact in the UE. It has not been a problem in other RATs.
- Interdigital think the main benefit is power saving but they can only be seen in rare emergency situations.
- Qualcomm think this is a frequency events in Japan.
- CATT share the view of Ericsson and Nokia. If the PWS bit in DCI is not set to one then the UE knows it doesn't need to continue receiving. Qualcomm explain that the paging is repeated for new UEs coming into the cell so the UE already in the cell can't tell anything.
- LG think the problem is due to frequent messages coming together which can happen with CMAS but not ETWS as once the secondary notification is sent there will not be another message in the modification period.
- Apple think SIB1 is sent more often than new message and would like to avoid the UE repeatedly having to receive duplicates of the same message.

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- Samsung understand the SIB content should not change within a single modification period. Qualcomm think these SIBs can change in a notification period. Ericsson also understand that a new warning message will always trigger a paging from the network, and there is no restriction when to start or when to change the content.

=> Noted

R2-1814948 Corrections for PWS notifications Qualcomm Incorporated, Apple CR Rel-15 38.331 15.3.0 0404 - F NR_newRAT-Core

R2-1813827 UE power saving of receiving PWS CATT CR Rel-15 38.331 15.3.0 0222 - F NR_newRAT-Core

R2-1814402 Considerations on value tags for PWS related SIBs Ericsson discussion Rel-15 NR_newRAT-Core

R2-1813621 Considerations on PWS valueTag KDDI Corporation discussion

R2-1815071 Considerations on additional mechanism to assist UE to know if the PWS message content has changed Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1812423

R2-1815347 PWS warning notification change indication Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

PDCCH monitoring within SI window

R2-1813693 PDCCH Monitoring Occasions in SI Window Samsung Electronics Co., Ltd discussion Rel-15 NR_newRAT-Core

- Huawei have a similar understand but it looked more like option1. Vivo also prefer option 1 as it is slightly quicker for a UE entering the cell.
- Qualcomm think that option 1 is better for time diversity but option 2 is better for power consumption.
- DOCOMO can understand that both options have some benefit but think it very unlikely an operator will select an option to use cell by cell.
- MediaTek agree we should have a single option and prefer option 2.
- Ericsson prefer option 1 as it uses faster beam sweeping.
- LG thinks that option 1 is a better choice. ZTE also prefer option 1
- CATT prefer option 1
- Ericsson wonder if paging, SIB1 and other SIs can be transmitted at the same time. Qualcomm think it should be possible. Samsung think for default association it is certainly possible but not sure for the non default case.

Agreements
1 In case of non-default association (i.e. when osi-SearchSpace is not zero), the mapping between PDCCH monitoring occasions in SI window and SSBs is determined as follows:
(x*N+K)th PDCCH monitoring occasion(s) in SI window corresponds to Kth transmitted SSB
- N is the number of transmitted SSBs. K = 1, 2,…N;
- x = 0, 1, …X-1; X = (Number of PDCCH monitoring occasions in SI Window/N)

R2-1813694 PDCCH Monitoring Occasions in SI Window_Option 1 Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0435 - F NR_newRAT-Core

R2-1813695 PDCCH Monitoring Occasions in SI Window_Option 2 Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0436 - F NR_newRAT-Core

=> Revised to reflect the agreements above

=> Revised in R2-1815912 (Offline discussion 56)

R2-1815912 PDCCH Monitoring Occasions in SI Window_Option 2 Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0436 1 F NR_newRAT-Core

=> Agreed in principle

R2-1815069 Discussion to clarify the relationship between OSI monitor occasion and SSB Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1815070 Addition of the relationship between OSI monitor occasion and SSB Huawei, HiSilicon
CR Rel-15 38.331 15.3.0 0430 - F NR_newRAT-Core

R2-1814949 Considerations on SI scheduling Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1814950 Corrections for SI scheduling Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0405 - F NR_newRAT-Core

SI validity check

R2-1813700 PLMN Identity selection for SI Validity Check (S016) Samsung Electronics Co., Ltd
discussion Rel-15 NR_newRAT-Core
- Nokia think this is good to clarify.
- Vivo think that option 1 is more clear. ZTE also prefer option 1
- Ericsson think referring to stored SIB1 is misleading as SIB1 is not stored.
- LG prefer option 3 and also think some clarification is needed for the cell scope case as well.
- Huawei think both option 1 and 3.

=> Noted

R2-1814178 CR on SI validity check for stored system information vivo CR Rel-15 38.331 15.3.0 0286 - F NR_newRAT-Core

R2-1814400 Validity of stored cell specific SIB at NW sharing (M211) Ericsson CR Rel-15 38.331 15.3.0 0317 - F NR_newRAT-Core

R2-1814431 SI storing and validity clarification Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0329 - F NR_newRAT-Core
=> Revised to not mandate the storing of this information in case of an implementation that always reads SI every cell, but clarify that if stored this other information on PLMN, etc is required.
=> Can also include other clean up
=> Revised in R2-1815913 (Offline discussion 57)

R2-1815913 SI storing and validity clarification Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0329 1 F NR_newRAT-Core
=> Revised to R2-1816027

R2-1816027 SI storing and validity clarification Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0329 2 F NR_newRAT-Core
=> In 5.3.5.5.2 change >2 bullets to >1
=> In 5.2.2.3.1 last 4 bullets to be indented one more level
=> Add the field names for "common search space configured"
=> Agreed in principle in R2-1816034

Other

R2-1814401 Removal of System Information related Editor's Notes and FFSs Ericsson CR Rel-15 38.331 15.3.0 0318 - F NR_newRAT-Core
=> To be merged into R2-1815913 (Offline discussion 57)

R2-1814427 SIB1 missing or not scheduled UE behaviour Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0325 - F NR_newRAT-Core
- Vivo support the intent but think it is captured in 38.304.

=> Offline discussion to conclude
=> Revised in R2-1815914 (Offline discussion 58)

R2-1815914 SIB1 missing or not scheduled UE behaviour Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0325 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814426 SIB1 missing or not scheduled UE behaviour Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1814490 Corrections to the SIB1 acquisition procedure Intel Corporation CR Rel-15 38.331 15.3.0 0340 - F NR_newRAT-Core
- Qualcomm wonder when SIB1 acquisition is not required. Chair explain this case if for an EN-DC UE
- Vivo think we had an agreement that the configuration from SIB1 would not be applied in connected. Intel understood that the agreement was referring to the case where there is no SIB1 broadcast and then only reconfiguration with sync could be used to update these parameters.

=> Remove " if received from broadcast SIB1" from the second change
=> Last 2 bullets from 5.2.2.3.1 to be indented one more step
=> Update coversheet to make it clear that first 2 changes do not have functional impact.
=> Agreed in principle in R2-1815915
Comeback requested for R2-1815915 due to additional change.
=> Addition change was agreed

R2-1814984 CR on UE behaviour upon lack of TAC in SIB1 Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0424 - F NR_newRAT-Core
- Ericsson think that barring the cell would prevent the UE from accessing this cell if the UE reselected to a different PLMN. Suggest it says the cell is not considered suitable for this PLMN.

=> The case where there is no TAC for the selected PLMN then the UE considers the cell as not suitable.
=> To be captured in 38.304
=> CR 0074 to 38.304 in R2-1815916 (Offline discussion 59, Nokia)

R2-1815916 CR on UE behaviour upon lack of TAC in SIB1 Nokia, Nokia Shanghai Bell CR Rel-15 38.304 15.1.0 0074 F NR_newRAT-Core
=> Revised in R2-1816035

R2-1816035 CR on UE behaviour upon lack of TAC in SIB1 Nokia, Nokia Shanghai Bell CR Rel-15 38.304 0074 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814983 UE behaviour upon lack of TAC in SIB1 Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core
- Ericsson think the this will cause the UE to acquire more than is required.
- Samsung think that nothing is needed for the failure case as T304 will expire.

=> Not agreed

R2-1814428 MIB reception failure for SCG Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0326 - F NR_newRAT-Core

R2-1814432 SIBs needed before connection setup Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0330 - F NR_newRAT-Core
=> Change the reference from 5.2.2.5 to 5.2.2.1
=> Agreed in principle in R2-1815917

R2-1815073 Corrections to System Information Procedures Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0432 - F NR_newRAT-Core
=> Second change on coversheet is not needed
=> Remove the PWS change
=> Remaining changed to be merged into R2-1815913 (Offline discussion 57)

Late

R2-1813622 Introducing Value Tags for PWS notifications KDDI Corporation CR Rel-15 38.331 15.3.0 0185 - C NR_newRAT-Core Late

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10.4.1.6.3 On demand system information

Start and stop of on demand SI reception

R2-1813696 On Demand SI Message Acquisition (E160) Samsung Electronics Co., Ltd discussion Rel-15 NR_newRAT-Core

- Huawei think neither option is needed. The UE can just start monitoring from the next window and up to the end of the modification period. So after the ACK is the same as any SI acquisition. Vivo agree with Huawei and prefer option 2. Nokia also agree with this comment and we don't need any parameter in SIB1. Qualcomm, LG also.
- Panasonic think both options force the network to send the SI quickly but the network might not want to do this. Apple have a similar concern and wonder if network will provide the SI as soon as possible after the ACK.
- Ericsson prefer option 2

Proposal: RAN2 to discuss and agree one of the following options for on demand SI message acquisition:

Option 2: After receiving the acknowledgment for SI request in modification period N, if there is at least one remaining SI Window of the requested SI message in modification period N, UE monitors the SI window(s) of the requested SI message in the modification period N. Otherwise UE monitors the SI window(s) of the requested SI message in the modification period N+1.

Agreements
1 UE starts to receive after receiving acknowledgment for SI request in the current modification period
2 UE continues to receive until the end of the modification period or until the SI is received.

R2-1813697 On Demand SI Message Acquisition_option 1 (E160) Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0437 - F NR_newRAT-Core

R2-1813698 On Demand SI Message Acquisition_option 2 (E160) Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0438 - F NR_newRAT-Core
=> Revised to capture the agreements above
=> Revised in R2-1815932 (Offline discussion 60)

R2-1815932 On Demand SI Message Acquisition_option 2 (E160) Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0438 1 F NR_newRAT-Core
=> Remove " NOTE 2: Handling of SI message acquisition if the concerned SI message was not received in the current modification period is left to UE implementation."
=> Agreed in principle in R2-1816036
=> UE behaviour if the concerned SI message is not received in the current modification period can be discussed in the next meeting.

R2-1813619 Remaining issues of on-demand SI Xiaomi Communications discussion Rel-15 R2-1811109

R2-1813829 Start time and duration for monitoring on-demand SI message CATT CR Rel-15 38.331 15.3.0 0224 - F NR_newRAT-Core

R2-1813871 Reception of on-demand SI Spreadtrum Communications discussion Rel-15 R2-1811405

R2-1814179 CR on SI reception after successful SI request (v111 v112 v122 v123) vivo CR Rel-15 38.331 15.3.0 0287 - F NR_newRAT-Core R2-1811222

R2-1814397 [E160] Duration of on-demand SI broadcast Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814398 Corrections to the duration of on-demand SI acquisition [E160] Ericsson CR Rel-15 38.331 15.3.0 0315 - F NR_newRAT-Core

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R2-1814429 SI request SI reception start and stop points Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0327 - F NR_newRAT-Core

R2-1815013 On demand SI reception Apple discussion Rel-15 NR_newRAT-Core

R2-1815110 Discussion on SI acquisition due to UE request ITRI discussion NR_newRAT-Core

R2-1815395 Clarification on SI monitoring after SI request LG Electronics Inc. discussion Rel-15 NR_newRAT-Core

R2-1814488 Remaining open issues on On-demand SI (RIL#I608) Intel Corporation CR Rel-15 38.331 15.3.0 0338 - F NR_newRAT-Core

R2-1815074 Corrections to on-demand SI request and acquisition procedure Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0433 - F NR_newRAT-Core

Other

R2-1813985 si-BroadcastStatus of SI in multi-beam deployment Intel Corporation discussion Rel-15 NR_newRAT-Core

- Panasonic think this can be addressed by sending the SI to multiple beams but not to all the beams.
- Samsung thinks we do not need to specify anything. The UE acquires cell specific information and the UE doesn't need to consider that it might be different on different beams.
- Qualcomm think that the beams should have the same content and we have similar statement for paging.
- Vivo think this should be captured and also for other SI as well.
- Huawei think we don't need to specify anything.
- OPPO think this can be clarified in the spec with a note.
- Samsung think it is clear that SIB1 is cell specific. LG think there is no UE requirement to re-receive when the beam is changed . CATT also think the current spec is
- Ericsson think this is clarified explicitly for paging and it is strange not to do it for SI.

=> RAN2 understanding is that SIB1 and SI content is the same on all beams.

R2-1813828 [167] Clean up of on-demand SI request procedures CATT CR Rel-15 38.331 15.3.0 0223 - F NR_newRAT-Core

=> Already covered

R2-1814029 CR on SI request procedure in TS38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0246 - F NR_newRAT-Core

=> Only change needed is to add "or si-RequestConfigSUL " in 2 locations. Other changes are not needed

=> Agreed in principle in R2-1815934

R2-1815934 CR on SI request procedure in TS38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0246 1 F NR_newRAT-Core

R2-1814180 CR for check si-BroadcastStatus at BCCH modification boundary(v120 v121 v124) vivo CR Rel-15 38.331 15.3.0 0288 - F NR_newRAT-Core R2-1811223

=> SIB1 acquisition at the end of the modification period if SI is not received does need to be clear and can be discussed as part of offline discussion 60

R2-1814430 SI request clarification which SIBs trigger reqeust procedure Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0328 - F NR_newRAT-Core

R2-1814036 CR for Cell reselection during on-demand system information acquisition (RIL660) ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0247 - F NR_newRAT-Core

R2-1814035 Cell reselection during on-demand system information acquisition (RIL 660) ZTE Corporation, Sanechips discussion Rel-15

R2-1813699 Handling Cell Reselection during SI Request Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0202 - F NR_newRAT-Core

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R2-1814374 [P002] Earlier Termination of the On-Demand SI Request Procedure PANASONIC R&D Center Germany CR Rel-15 38.331 15.3.0 0311 - F NR_newRAT-Core R2-1811428

R2-1815435 Concurrent triggers of SI Request and RRC Connection Establishment/Resume LG Electronics Inc. CR Rel-15 38.331 15.3.0 0483 - F NR_newRAT-Core R2-1812825

10.4.1.6.4 System information reception in connected mode

R2-1813830 [C203] CSS configuration for SI acquisition CATT CR Rel-15 38.331 15.3.0 0225 - F NR_newRAT-Core R2-1811231
=> in 5.3.5.3, remove "and pagingSearchSpace"
=> Remove the condition for the pagingSearchSpace (last change)
=> Merged into R2-1816034

R2-1814399 Clarification of MIB and SIB1 acquisition in RRC_CONNECTED [E576] Ericsson CR Rel-15 38.331 15.3.0 0316 - F NR_newRAT-Core
=> To be considered as part of offline discussion 57

R2-1814489 SI reception upon handover (RIL#I610, I611) Intel Corporation CR Rel-15 38.331 15.3.0 0339 - F NR_newRAT-Core
=> Remove the note
=> Agreed in principle in R2-1815935

R2-1815075 Correction to SI provision in connected mode Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0434 - F NR_newRAT-Core
=> Check what was agreed in previous meeting and ensure the coversheet is aligned.
=> Replace "ETWS or CMAS messages" with the SIBs that carry these messages.
=> Agreed in principle

R2-1813818 Correction of BCCH-Config CATT CR Rel-15 38.331 15.3.0 0214 - F NR_newRAT-Core

R2-1814498 CR on BWP Switching during SI Update OPPO CR Rel-15 38.331 15.3.0 0341 - F NR_newRAT-Core

R2-1813806 Discussion on BWP Switching during SI Update OPPO discussion Rel-15

10.4.1.9 Inter-Node RRC messages

No documents should be submitted to 10.4.1.9. Please submit to 10.4.1.9.x.

10.4.1.9.1 Inter-Node RRC messages for EN-DC

R2-1814144 CR on ssb-ToMeasure in MeasurementTimingConfiguration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0267 - F NR_newRAT-Core
=> Remove " When the field is absent the UE measures on all SS-blocks "
=> Untick the ME box
=> Agreed in principle in R2-1815937

R2-1814145 Handling of SSB information in MeasurementTimingConfiguration Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> To be left to RAN3 to discuss. If they concluded it should be handled by RAN2 via INMs then we can revisited.

R2-1814146 CR on SSB type indication Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0268 - F NR_newRAT-Core

R2-1814147 Inter node message for CSI-RS configuration Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
- Nokia wonder if this is relevant for EN-DC. Huawei think it is useful also for EN-DC.

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- Qualcomm think some timing information would be needed. Huawei explain timing is provided with the SSB and the same SMTC would be used for CSI-RS measurements.
- Nokia think CSI-RS should be UE specific information.

=> Offline discussion to try to conclude (Offline discussion 61)

- Update from offline: RAN3 discussed and they will work on it much later (Feb next year) and hence it can be postponed in RAN2.

R2-1814387 Interoperability issue when handling of the candidateCellInfoList IE in EN-DC (unresolved ASN.1 issue N105) Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

- Catt think that the MN must be able to request a blind addition of the SCG. Nokia think in the blind case how the SN know which node to select. When we previously discuss blind addition it was to allow 2x to be configured but not the case where SCG is used.
- ZTE tends to agree with Nokia. Even for blind addition the cell should be selected by MN.

=> RAN2 understand that if MN requests SN terminated SCG or Split bearer and the candidateCellInfoList is absent, the SN may reject the SN addition procedure (i.e. 3/3X case).

=> A CR to capture this in 37.340 can be submitted to next meeting

R2-1814536 ASN.1 correction to fr-InfoListSCG in CG-Config Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0350 - F NR_newRAT-Core

=> Change the field description to clarify why the constant -1 is used

=> Revised in R2-1815938 (Offline discussion 62)

R2-1815938 ASN.1 correction to fr-InfoListSCG in CG-Config Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0350 1 F NR_newRAT-Core

=> Agreed in principle

R2-1814962 Missing optionality bit in CG-ConfigInfo Ericsson, Qualcomm Inc CR Rel-15 38.331 15.3.0 0412 - F NR_newRAT-Core

=> To be revised to be backwards compatible

=> Revised in R2-1815939 (Offline discussion 63)

R2-1815939 Missing optionality bit in CG-ConfigInfo Ericsson, Qualcomm Inc CR Rel-15 38.331 15.3.0 0412 1 F NR_newRAT-Core

=> Agreed in principle

R2-1815334 CR on scgFailureInfo Samsung Electronics GmbH CR Rel-15 38.331 15.3.0 0464 - F NR_newRAT-Core

R2-1815512 CR on MeasurementTimingConfiguration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0492 - F NR_newRAT-Core

=> Do not removed "eNB to en-gNB2"

=> " The timing is based on source cell." needs to be corrected as this is not a handover case where there is a source and target

=> Revised in R2-1815940 (Offline discussion 64).

R2-1815940 CR on MeasurementTimingConfiguration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0492 1 F NR_newRAT-Core

=> Postponed

R2-1815378 correction on the allowedBC-ListMRDC Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0475 - F NR_newRAT-Core

=> Agreed in principle

R2-1815098 for source EN-DC context (H703) Huawei, Hisilicon CR Rel-15 36.331 15.3.0 3649 - F NR_newRAT-Core R2-1812954

=> "SCG-" to be removed from SCG-ConfigRestrictInfoSCG. To be captured in the rapporteur CR

10.4.1.9.2 Inter-Node RRC messages for standalone operation

R2-1814661 UE context handling during inter RAT handover Ericsson discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814662 UE context handling during handover to NR (38.331) Ericsson CR Rel-15 38.331 15.3.0 0368 - F NR_newRAT-Core
=> Revised in R2-1815964

R2-1814663 UE context handling during handover to LTE-5GC (36.331) Ericsson CR Rel-15 36.331 15.3.0 3622 - F NR_newRAT-Core
=> To be updated to the latest version of the spec
=> Update general description of message to cover Inter-RAT case
=> To be finalised offline
=> Revised in R2-1815941 (Offline discussion 65)

R2-1815941 UE context handling during handover to LTE-5GC (36.331) Ericsson CR Rel-15 36.331 15.3.0 3622 1 F NR_newRAT-Core
=> Add eLTE WI code to coversheet
=> Agreed in principle

R2-1815964 UE Context handling during handover to NR Ericsson CR Rel-15 38.331 15.3.0 0368 - F NR_newRAT-Core
=> Agreed in principle

R2-1813618 Correction to handover preparation (G201) Google Inc. CR Rel-15 36.331 15.3.0 3552 - F LTE_5GCN_connect-Core, NR_newRAT-Core
=> Consider in offline discussion 65

R2-1814124 Corrections for HandoverPreparationInformation Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0261 - F NR_newRAT-Core
=> Not agreed

R2-1813831 Correction on the direction of MeasurementTimingConfiguration CATT CR Rel-15 38.331 15.3.0 0226 - F NR_newRAT-Core
=> To be discussed as part of offline discussion 64.

10.4.1.10 Other (non EN-DC)

Other RRC related corrections

10.4.2 LTE changes related to NR

No documents should be submitted to 10.4.2. Please submit to 10.4.2.x.

10.4.2.1 RRM measurements

R2-1813877 Correction to inter-RAT measurement for NR Spreadtrum Communications CR Rel-15 36.331 15.3.0 3577 - F NR_newRAT-Core
=> In 5.5.5.3 instead of the proposed change, just add "-NR" to event B1 and event B2
=> Agreed in principle in R2-1815850

R2-1814284 NR serving frequency reporting in LTE measurement report MediaTek Inc. CR Rel-15 36.331 15.3.0 3603 - F NR_newRAT-Core

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R2-1814879 Correction on measurement reporting for best neighbour NR cells in events A3, A4 and A5 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3638 - F NR_newRAT-Core
=> To be revised to also clarify the case how to sort NR serving cells for the case that they are reported in a report triggered by event B1-NR or B2-NR.
=> Revised in R2-1815851 (Offline discussion 38)

R2-1815851 Correction on measurement reporting for best neighbour NR cells in events A3, A4 and A5 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3638 1 F NR_newRAT-Core

✉ **[103bis#19][NR] Sorting of NR cells in measurement reports in LTE (Huawei)**
Intended outcome: CR submitted to next
Deadline: Thursday 2018-11-01

R2-1814283 RSRP result in SFTD measurement report MediaTek Inc. CR Rel-15 36.331 15.3.0 3602 - F NR_newRAT-Core
=> Impact analysis to be improved
=> Revised in R2-1815852 (Offline discussion 39)

R2-1815852 RSRP result in SFTD measurement report MediaTek Inc. CR Rel-15 36.331 15.3.0 3602 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814436 On a remaining SFTD key use case Ericsson, MediaTek, Nokia, Nokia Shanghai Bell, ZTE, Huawei discussion Rel-15 NR_newRAT-Core
- Vivo think this carrier is already synchronised so wonder why we need an additional report from the UE.
- Qualcomm share the same understanding as Vivo, so don't see why this is an important scenario to add at this late stage.
- OPPO share the same concern that this is not an important scenario.
- Nokia think RAN4 doesn't consider tha the network is already synchronised especially for FR1 and FR2 cells
- Samsung wonder whether this timing drift is important to address.
- Intel think there are other UEs that can provide the timing information.

=> For Rel-15 it is not critical to support SFTD reporting of NR neighbour cells within the monitored SMTC window when the UE is configured with an NR PSCell.

R2-1814437 [Draft] Reply LS on SFTD measurements Ericsson LS out Rel-15 NR_newRAT-Core To:RAN4

sMeasure

R2-1815354 Applicability of s-measure in LTE Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1815355 CR to 38331 for applicability of s-Measure in LTE Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0467 - F NR_newRAT-Core

R2-1814546 CR on s-Measure Ericsson CR Rel-15 38.331 15.3.0 0357 - F NR_newRAT-Core R2-1812257

Withdrawn

R2-1814155 Correction on measurement reporting for best neighbour NR cells in events A3, A4 and A5 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0274 - F NR_newRAT-Core Withdrawn

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10.4.2.2 Inter-RAT Handover

Including both 36.331 and 38.331 correction of both inter-RAT HO from NR to LTE and from LTE to NR should be discussed in this AI. Idle mobility from LTE to NR should be discussed in 10.4.5.7
Including output of email discussion [103#44][NR] LTE/NR mobility capability and eLTE capability (Intel)

HO related capabilities

R2-1813978 email discussion report on 103#44 Intel Corporation report Rel-15 LTE_5GCN_connect-Core

P1

- Huawei think this could be mandatory for a UE that support VoLTE
- Qualcomm think a capability is needed but could reuse the existing bit. Ericsson share Qualcomm's view.
- Qualcomm also think it needs to be considered for the different architecture options.
- Intel think separate bits are needed for EN-DC and eLTE. CMCC also agree a separate bit is better

P5a

- Ericsson think that we will have 8 capabilities if we differentiate FDD/TDD on the target side as well

P6a

- H/w think that redirection is fundamental and no capability bits are needed. Ericsson agree. ZTE also have the same view.
- Qualcomm see IOT bits are important also for redirection.

Agreements
1 Introduce an LTE capability bit for support of IMS voice over E-UTRA/5GC (common for FDD/TDD). The feature is mandatory if the UE support IMS voice in upper layers. (The bit is separate from the VoiceOverMCGBearer added for EN-DC)
FFS Whether this bit is applicable for option 7 will be discussed as part of the late drop.
2i HO from eLTE to NR: Mandatory with capability signalling (diff for LTE FDD/TDD, diff for NR FR1/FR2, NR FDD/TDD).
2ii HO from LTE to NR: Mandatory with capability signalling (diff for LTE FDD/TDD, diff for NR FR1/FR2, NR FDD/TDD).
FFS Redirection from E-UTRA/EPC to NR: Mandatory with capability signalling if the UE supports the associated RAT(diff for LTE FDD/TDD, diff for NR FR1/FR2, NR FDD/TDD).
FFS Redirection from E-UTRA/5GC to NR: Mandatory with capability signalling if the UE supports the associated RAT(diff for LTE FDD/TDD, diff for NR FR1/FR2, NR FDD/TDD).
FFS Redirection between E-UTRA/5GC and E-UTRA/EPC), ask RAN2 to further discuss whether it is mandatory or optional.
3 Introduce an optional LTE capability bit for E-UTRA/5GC (diff for FDD/TDD)

=> Offline discussion to try to resolve the FFS points on redirection above (Offline discussion 01, Intel)

- Update from offline: No consensus to the FFS can be postponed to next meeting. The CR will not include this aspect

R2-1816037 Summary on offline discussion 001 Intel Corporation discussion
=> Postponed to the next meeting

R2-1813979 TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC Intel Corporation CR Rel-15 36.331 15.3.0 3589 - F LTE_5GCN_connect-Core
=> Revised to reflect the agreements above
=> Revised in R2-1815793 (Offline discussion 01, Intel)
=> Postponed

R2-1815793 TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC Intel Corporation CR Rel-15 36.331 15.3.0 3589 1 F LTE_5GCN_connect-Core

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R2-1815344 TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC Intel Corporation CR Rel-15 36.306 15.2.0 1660 - F LTE_5GCN_connect-Core
=> Revised in R2-1815794 (Offline discussion 01, Intel)

R2-1815794 TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC Intel Corporation CR Rel-15 36.306 15.2.0 1660 1 F LTE_5GCN_connect-Core
=> Postponed

R2-1814497 Introduction of ims-VoiceOverNR for voice continuity Intel Corporation CR Rel-15 36.331 15.3.0 3617 - F NR_newRAT-Core
=> Agreed to be merged into R2-1815793

R2-1814969 Introduction of ims-VoiceOverNR for voice continuity Intel Corporation CR Rel-15 36.306 15.2.0 1658 - F NR_newRAT-Core
=> Agreed to be merged into R2-1815794

Other

R2-1814624 Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331) Ericsson CR Rel-15 36.331 15.3.0 3631 - F NR_newRAT-Core
=> Revised in R2-1815567

R2-1815567 Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331) Ericsson CR Rel-15 36.331 15.3.0 3631 1 F NR_newRAT-Core
- Huawei think Inter-RAT handover to EN-DC will have impacts on the inter-node messages
- Huawei see the use case is that the network hands the UE over to LTE for voice service but wants to enable high data rate as well via an EN-DC.
=> Offline discussion whether to support this case of handover into LTE with EN-DC configured, and if supported the full solution including whether to support delta signalling, capability, inter-node messages, if RAN3 would need to do anything, etc (Offline discussion 40, Ericsson)

R2-1816040 Offline discussion report on [103bis#40][NR] Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA Ericsson discussion
=> Revised to R2-1816040

R2-1816045 Offline discussion report on [103bis#40][NR] Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA Ericsson discussion
=> Postponed
=> CR to be provided to the next meeting including all inter-node message impacts so that people can see all the impacts a final decision can be made.

R2-1816002 Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331) Ericsson CR Rel-15 36.331 15.3.0 3631 2 F NR_newRAT-Core

R2-1813949 CR for security handling upon handover to eLTE in 36.331 ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3583 - F NR_newRAT-Core
=> Revised in R2-1815792

R2-1815792 CR for security handling upon handover to eLTE in 36.331 ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3583 1 F NR_newRAT-Core
=> Add eLTE WI to the coversheet
=> Agreed in principle

R2-1813950 CR for security handling upon handover to eLTE in 38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0236 - F NR_newRAT-Core
=> Need to add extra case for the first configuration in 5GC
=> Clarify the first bullet 2 is only meant to apply to handover to LTE/5GC.
=> Revised in R2-1815853 (Offline discussion 41)

R2-1815853 CR for security handling upon handover to eLTE in 38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0236 1 F NR_newRAT-Core
=> Agreed in principle

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R2-1813981 Security handling on inter RAT HO Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1814122 Corrections for handover between NR and E-UTRA Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0260 - F NR_newRAT-Core
=> Change in 5.4.3.3 can be agreed
=> Also consider whether the specification has the normative requirements that describe this behaviour and if not to consider to add such requirements and remove or reduce the note.
=> If existing note is to be kept then at least reword " If PDCP-config IE or SDAP-config IE exists, the PDCP entity or SDAP entity established with source cell of the DRBs is reconfigured for the target cell of the target RAT " to make it clear that it refers to the presence of the IEs in the handover message.
=> Revised in R2-1815854 (Offline discussion 42)

R2-1815854 Corrections for handover between NR and E-UTRA Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0260 1 F NR_newRAT-Core
=> Change note to "... the delta configuration for PDCP and SDAP can be used ..."
=> Agreed in principle in R2-1816038

✉ **[103bis#20][NR] Inter-RAT HO (Huawei)**
Conclude how to specify the clean-up of resources, etc in NR on handover to LTE
Intended outcome: Draft CR submitted to next meeting
Deadline: Thursday 2018-11-01

R2-1815090 CR on Update of nas-SecurityParamFromNR according to LS from SA3 Ericsson LM CR Rel-15 38.331 15.3.0 0439 - F NR_newRAT-Core
=> Agreed in principle

R2-1814123 Corrections for handover between NR and E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3597 - F NR_newRAT-Core
=> The addition of the node needs to be discussed as part of Offline discussion 42
=> Revised in R2-1815855 (Offline discussion 43)

R2-1815855 Corrections for handover between NR and E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3597 1 F NR_newRAT-Core
=> Note 3 to be simplified
=> Revised in R2-1816015

R2-1816015 Corrections for handover between NR and E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3597 2 F NR_newRAT-Core
=> Change note to "... the delta configuration for PDCP and SDAP can be used ..."
=> Agreed in principle in R2-1816039

R2-1815401 Corrections for Inter-RAT handover from E-UTRA in TS36.331 Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core
=> Update the title to correctly describe the case as inter-system intra-E-UTRA handover
=> Coversheet summary of changes to be corrected to describe the actual changes in the CR
=> Change WI code to eLTE
=> Revised R2-1815856 (Offline discussion 44)

R2-1815856 Corrections for Inter-RAT handover from E-UTRA in TS36.331 Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core
=> Agreed in principle

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R2-1814251 Cleanup on handover to EUTRA procedure Google Inc. CR Rel-15 36.331 15.3.0 3600 - F NR_newRAT-Core, LTE_5GCN_connect-Core
=> Remove the "(if the RRCConnectionReconfiguration message does not include the fullConfig)"
=> Remove the sections that were included for reference
=> Remove change 4 as already covered by previous CRs.
=> Revised in R2-1815857 (Offline discussion 45)

R2-1815857 Cleanup on handover to EUTRA procedure Google Inc. CR Rel-15 36.331 15.3.0 3600 1 F NR_newRAT-Core, LTE_5GCN_connect-Core
=> Agreed in principle

R2-1814623 CR on Correction to clarify configuration aspects for handover between NR and E-UTRA (38.331) Ericsson CR Rel-15 38.331 15.3.0 0374 - F NR_newRAT-Core
=> Revised in R2-1815566

R2-1815566 CR on Correction to clarify configuration aspects for handover between NR and E-UTRA (38.331) Ericsson CR Rel-15 38.331 15.3.0 0374 1 F NR_newRAT-Core
=> To be considered as part of offline discussion 42

R2-1816001 CR on Correction to clarify configuration aspects for handover between NR and E-UTRA (38.331) Ericsson CR Rel-15 38.331 15.3.0 0374 2 F NR_newRAT-Core
=> Withdrawn

R2-1814625 Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-DC (36.300) Ericsson CR Rel-15 36.300 15.3.0 1200 - F NR_newRAT-Core
=> Revised in R2-1815568

R2-1815568 Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-DC (36.300) Ericsson CR Rel-15 36.300 15.3.0 1200 1 F NR_newRAT-Core
=> Change the notes normative text
=> Revised in R2-1815858 (Offline discussion 46)

R2-1815858 Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-DC (36.300) Ericsson CR Rel-15 36.300 15.3.0 1200 2 F NR_newRAT-Core
=> Agreed in principle

R2-1814626 CR on Inter-RAT handover between E-UTRAN with EN-DC configuration to GERAN or UTRAN (36.331) Ericsson CR Rel-15 36.331 15.3.0 3632 - F NR_newRAT-Core
=> Revised in R2-1815569

R2-1815569 CR on Inter-RAT handover between E-UTRAN with EN-DC configuration to GERAN or UTRAN (36.331) Ericsson CR Rel-15 36.331 15.3.0 3632 1 F NR_newRAT-Core
=> Not agreed

R2-1815400 Corrections for intra E-UTRA/5GC handover in TS36.331 Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

Withdrawn

R2-1813980 TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC Intel Corporation CR Rel-15 36.331 15.3.0 3590 - F LTE_5GCN_connect-Core Withdrawn

R2-1814627 CR on Update of nas-SecurityParamFromNR according to LS from SA3 (38.331) Ericsson CR Rel-15 38.331 15.3.0 F NR_newRAT-Core Withdrawn

R2-1814664 UE context handling during inter-RAT HO in case of non-5GC case (36.331) Ericsson CR Rel-15 36.331 15.3.0 3623 - F NR_newRAT-Core Withdrawn

R2-1814926 CR on Update of nas-SecurityParamFromNR according to LS from SA3 (38.331) Ericsson LM CR Rel-15 38.331 15.3.0 0403 - F NR_newRAT-Core Withdrawn

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=> Revised in R2-1815598

R2-1815598 CR on Update of nas-SecurityParamFromNR according to LS from SA3 (38.331) Ericsson LM CR Rel-15 38.331 15.3.0 0403 1 F NR_newRAT-Core

10.4.2.3 Others

Other corrections to LTE RRC for EN-DC and SA
Including handling SCG failure with split SRB

SCG failure with split SRB

R2-1814655 UL path switch in case of SCG failure in EN-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1813832 UE Behaviors after CG failure with some special cases CATT discussion Rel-15 NR_newRAT-Core R2-1811245

R2-1814689 Discussion on the UL path of split SRB in EN-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

- Discussed jointly with the papers above
- Intel think the Huawei proposal is sufficient
- Interdigital prefer the Ericsson proposal and thinks it reverts a previous agreement to support split SRB on UL.
- Samsung also agree with Huawei as not sure of the benefit.
- Vivo support Huawei's approach. OPPO also support Huawei's approach and consider the Ericsson approach as a kind of optimisation. ZTE also support the Huawei approach but open to rediscuss for other options.
- Nokia see some value in the Ericsson approach and think the DRB behaviour could also be changed to autonomous switch.
- MediaTek also support Huawei's proposal.
- Qualcomm have sympathy for Ericsson proposal but think that for R15 the Huawei approach is sufficient.
- LG also support the Huawei approach.

Agreements
1: In EN-DC, for UL split SRB, primary path is always MCG.
2: In NGEN-DC, NE-DC and NR DC, for UL split SRB, primary path is always MCG.
(Note: Still possible for UL duplication to be configured for an SRB)

=> Check offline that the spec is clear that with duplication configured the SCG failure triggers SCG Failure message to MN and MCG failure triggers re-establishment (Offline discussion 47, CATT)

- Update from offline discussion: For EN-DC concluded the spec is clear and nothing needs to be changed. For other cases they can be discussed as part of the later drop.

R2-1815058 SCG failure handling for split bearer Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1813833 CR for 36.331 on UE behavior after SCG failure with UL SRB in SCG only for EN-DC CATT CR Rel-15 36.331 15.3.0 3575 - F NR_newRAT-Core R2-1812963

R2-1813834 CR for 38.331 on UE behavior after SCG failure with UL SRB in SCG only for EN-DC CATT CR Rel-15 38.331 15.3.0 0227 - F NR_newRAT-Core R2-1812964

R2-1814690 CR on 37.340 for split SRB UL configuration Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0067 - F NR_newRAT-Core

=> Agreed in principle

R2-1815332 UL split SRB and SCG failure Samsung Electronics GmbH discussion R2-1812586

R2-1815333 CR on UL split SRB and DRB Samsung Electronics GmbH CR Rel-15 38.331 15.3.0 0463 - F NR_newRAT-Core R2-1812587

R2-1814656 UL path switch in case of SCG failure in EN-DC (37.340) Ericsson CR Rel-15 37.340 15.3.0 0066 - F NR_newRAT-Core

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R2-1814657 UL path switch in case of SCG failure in EN-DC (36.331) Ericsson CR Rel-15 36.331 15.3.0 3621 - F NR_newRAT-Core

R2-1814658 Primary path switch for SRBs (38.331) Ericsson CR Rel-15 38.331 15.3.0 0366 - F NR_newRAT-Core

Other

R2-1813751 Clarification on PDCP-configration upon bear type change vivo CR Rel-15 36.331 15.3.0 3559 - F NR_newRAT-Core

- Ericsson think it is clear today that pdpc-Config in LTE spec refers to the LTE PDCP.

=> "nr-" to added to " nr-radioBearerConfig1/2" in the rapporteur misc CR (revision of R2-1814763)

=> CR is not agreed

R2-1814899 Change of logical channel ID via reconfiguration of RLC bearer ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3639 - F NR_newRAT-Core

- ZTE think last time we agreed this case was already supported by the ASN.1. We think the ASN.1 is clear but we clarify the procedure description. Ericsson think even in legacy a UE will process the new logical channel identity even without this procedure text.

=> To be checked offline whether the CR is required or whether the behaviour is already clear. (Offline discussion 48, ZTE)

=> Revised in R2-1815947

R2-1815947 Change of logical channel ID via reconfiguration of RLC bearer ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3639 1 F NR_newRAT-Core

=> Postponed

R2-1814084 [E201] CR to 36.331 on handling of mapped GUMMEI at idle mode mobility from 5GS to EPS Ericsson CR Rel-15 36.331 15.3.0 3592 - F NR_newRAT-Core, LTE_5GCN_connect-Core R2-1811161

=> Remove " For ASN.1 compatibility, "

=> Field name changed to italics

=> Add the indication for GUAMI type for the LTE/EPC to LTE/5GC case

=> Impact analysis can be updated

=> Revised in R2-1815859 (Offline discussion 49)

R2-1815859 [E201] CR to 36.331 on handling of mapped GUMMEI at idle mode mobility from 5GS to EPS Ericsson CR Rel-15 36.331 15.3.0 3592 1 F NR_newRAT-Core, LTE_5GCN_connect-Core

=> Agreed in principle

R2-1814083 [E201] Handling of mapped GUMMEI at idle mode mobility from 5GS to EPS Ericsson discussion Rel-15 NR_newRAT-Core, LTE_5GCN_connect-Core R2-1811160

R2-1814737 Gummei-Type field setting when UE moved from 5GC Sony CR Rel-15 36.331 15.3.0 3627 - F NR_newRAT-Core

R2-1814570 Clarification on SupportedbandListNR Ericsson CR Rel-15 36.306 15.2.0 1653 - F NR_newRAT-Core

R2-1814571 Clarification on SupportedbandListNR Ericsson CR Rel-15 36.331 15.3.0 3618 - F NR_newRAT-Core

- Qualcomm think in the past this capability also included the need for gaps which we don't yet have to EN-DC. Do we need to keep it applicable for EN-DC for future compatibility when need for gaps is added.
- Intel think if the network asked for filtered bands in the MRDC list then the network wouldn't know the UE supports other NR bands.
- Samsung think this was intentionally added for EN-DC.
- Nokia think the LTE MN uses this list and the list of bands supported by the SN to select which bands to filter in the capability enquiry.

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=> Offline discussion to conclude (Offline discussion 50, Ericsson)
- Update from offline: More time is needed to resolve.

✉ **[103bis#21][NR] SupportedbandListNR (Ericsson)**
Progress discussion of SupportedbandListNR from R2-1814570
Intended outcome: CR submitted to next meeting
Deadline: Thursday 2018-11-01

R2-1814763 Some NR SA related corrections Samsung Telecommunications CR Rel-15 36.331 15.3.0 3634 - F NR_newRAT-Core
=> This will be used as the 36.331 rapporteur CR for small misc corrections
=> Revised in R2-1815860

R2-1815860 Some NR SA related corrections Samsung Telecommunications CR Rel-15 36.331 15.3.0 3634 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814700 Discussion on SN counter for EN-DC and LTE DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814701 CR on 36.331 to use different counter value for LTE DC and EN-DC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3626 - F NR_newRAT-Core

R2-1814751 IDC reporting with NR Samsung Telecommunications discussion Rel-16 NR_newRAT-Core

R2-1814752 Corrections to IDC reporting with NR Samsung Telecommunications CR Rel-15 36.331 15.3.0 3630 - F NR_newRAT-Core

10.4.4 UE capabilities

No documents should be submitted to 10.4.4. Please submit to 10.4.4.x.

10.4.4.1 TS

38.306 rapporteur inputs, etc

R2-1814492 Update of NR L2/3 feature lists Intel Corporation discussion Rel-15 NR_newRAT-Core
=> Endorsed as the latest version of the feature list

R2-1814491 Update of UE capabilities Intel Corporation CR Rel-15 38.306 15.3.0 0036 - F NR_newRAT-Core Late
=> To be discussed as part of email discussion

R2-1814254 Update of L1/RF capabilities NTT DOCOMO, INC. CR Rel-15 38.331 15.3.0 0295 - F NR_newRAT-Core Late
- DOCOMO explain this included NBC changes and think we should consider a NBC change for the UE capabilities.
- Qualcomm cannot accept NBC changes any more. Huawei have the same view.
=> To be made clear on the coversheet that for the capabilities that are changed then UE and network will both need to support the change for the functionality to work
=> Revised to add the changes to the ASN.1 in a backwards compatible manner

✉ **[103bis#22][NR] UE capabilities (DOCOMO/Intel)**
Intended outcome: Agreeable CR for 38.331 and 38.306
Deadline: Thursday 2018-11-01

10.4.4.2 UE capabilities for EN-DC

General

R2-1814979 Relation of feature sets and band combinations Ericsson other Rel-15 NR_newRAT-Core
- Qualcomm think the network should be able to request LTE capability first and then NR and MRDC capabilities. Ericsson agree and this speaks against the solution where all need to be provided in a single enquiry procedure. In this case the UE has no idea which feature sets is should include in the LTE capability for a later MRDC enquiry.
- Qualcomm think the LTE feature set overhead is not that large.
- Intel wonders how the network can ensure that the UE reports its full feature set, but this implies that the capabilities can never change. Ericsson think after indicating the change of capabilities the feature sets could change but they then need to be consistent until the next capability change.
- Nokia wonder if all 3 are requested in one message and the UE sets them according to the filter then how big is the issue in Rel-15 if we assuming filtering is used. Qualcomm think that we will for sure have issues if all 3 need to be included in a single enquiry. Ericsson is also concerned that only one set can be stored in the CN and this could lead to more frequent enquiry procedures.

=> Offline discussion to progress (Offline discussion 52, Ericsson)
- Update from offline: Companies agree there is a problem to solve but more time is needed to consider the options.
- Nokia is still not convinced that there is a problem to solve. It would only be if all 3 containers are requested at the same time and we also need to look at how effective the filtering option is.
- Ericsson think that at least the LTE feature set requirements need to be specified

✉ **[103bis#23][NR] Relation of feature sets and band combinations (Ericsson)**
Progress the discussion on relation of feature sets and band combinations
Intended outcome: Report to next meeting, and draft CR if possible
Deadline: Thursday 2018-11-01

R2-1814980 Correction to UE capability procedures Ericsson CR Rel-15 38.331 15.3.0 0422 - F NR_newRAT-Core
=> Remove the EN " Editor's Note: FFS whether NR UECapabilityEnquiry is also used for EN-DC."
=> Check that the 2 requested band lists are correctly addressed
=> Revised in R2-1815862 (Offline discussion 53)
- Update from offline discussion: This CR will be considered as part of the email discussion on relation of feature sets and band combinations

R2-1815862 Correction to UE capability procedures Ericsson CR Rel-15 38.331 15.3.0 0422 1 F NR_newRAT-Core

R2-1815137 Introdcution of including EUTRA UE capability for MRDC usage Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3525 1 F NR_newRAT-Core R2-1812560
=> Deletion of text is correct but additional text is to be discussed in offline discussion 52
=> Revised on only include the deletion.
=> Agreed in principle in R2-1815863

R2-1813582 Correction to UE capability enquiry Google Inc. CR Rel-15 36.331 15.3.0 3550 - F NR_newRAT-Core
=> To be discussed in offline discussion 52

R2-1814228 Handling of FDD/TDD and FR1/FR2 capability differences Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core R2-1811134
=> Noted

R2-1814229 Handling of FDD/TDD and FR1/FR2 capability differences Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0032 - F NR_newRAT-Core

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=> Postponed to the next meeting (and people are encouraged to provide feedback before the meeting)

RF parameters

R2-1814235 Correction on frequency separation class Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0034 - F NR_newRAT-Core

=> Draft LS in R2-1815864 to RAN4 to ask them if multiple bands entries for the same band in a band combination would have the same frequency separation class or whether they could have different frequency separation class. Also ask whether the frequency separation class is applicable now or possibly in the future to intra-band MRDC band combinations. (Offline discussion 54, Qualcomm)

- Update from offline: Found not necessary to ask about MRDC band combinations and hence this was not included in the LS.

R2-1815864 [DRAFT] LS on frequency separation class Qualcomm LS out Rel-15 NR_newRAT-Core To:RAN4

=> Approved in R2-1816016

R2-1814236 Correction on frequency separation class Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0290 - F NR_newRAT-Core

R2-1814957 UE capability correction for Intraband contiguous MR_DC T-Mobile USA Inc. CR Rel-15 38.331 15.3.0 0408 - F NR_newRAT, NR_newRAT-Core

=> Postponed until we have a response from RAN4 to the questions raised from R2-1814235

R2-1814964 UE capability correction for Intraband contiguous MR_DC T-Mobile USA Inc. CR Rel-15 38.306 15.3.0 0040 - F NR_newRAT, NR_newRAT-Core

R2-1815145 Discussion on EN-DC contiguous and non-contiguous signalling Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1815140 Avoiding duplication BCs report in NR SA and MR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

=> To be discussed as part of Offline discussion 52,

R2-1815141 Avoiding duplication BCs report in LTE SA capability and MR-DC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3650 - F NR_newRAT-Core

R2-1814388 Conflicting understanding in interpreting MIMO capabilities in EN-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

- DOCOMO think the maxLayersMIMO from the LTE capabilities is applicable also for EN-DC operation. Ericsson think that falling back to the LTE SA capabilities if the 4layer MIMO is not signalled is difficult. Intel agree with Ericsson.

=> We will not specify a principle that we fallback to the LTE only capability if a parameter is not signalled in the LTE feature set, but instead will specify case by case what is the meaning when a parameter is not included in the feature set (in general if the parameter is absent it would mean the feature is not supported)

=> CR to address this can be submitted to next meeting

R2-1814389 Clarification to TS 36.306 on MIMO capabilities in EN-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

=> Noted

SRS antenna switching

R2-1814242 SRS antenna switching UE capabilities Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core R2-1811133

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R2-1815338 Discussion on SRS switching capability Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

- DOCOMO explain that RAN1/4 replied that they would like to stick to the LTE signalling approach.
- Ericsson suggest that the UE could indicate a single worst case value, maybe per band, or per band combination. Value is up to 900us.
- DOCOMO think compared to the measurement gaps these interruptions are tiny and winder why we need to care.

✉ **[103bis#24][NR] SRS switching capability (Huawei)**
Discuss potential compromise solutions that could provide some useful information to the network but not at the granularity of per band pair per band combination
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

R2-1815138 Signalling introduction of SRS switching capability Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0450 - F NR_newRAT-Core

R2-1815139 Introduction of SRS switching capability Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0045 - F NR_newRAT-Core

L1 parameters

R2-1814230 Timer based BWP switching Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0033 - F NR_newRAT-Core
=> Agreed principle

R2-1815099 to introduce a capability of UlOverlappingTxPaPhaseContinuity Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0440 - F NR_newRAT-Core

R2-1815100 to introduce a capability of UlOverlappingTxPaPhaseContinuity Huawei, Hisilicon CR Rel-15 38.306 15.3.0 0042 - F NR_newRAT-Core

R2-1815105 Introducing capability of A-CSI-RS beam switching timing [H375] Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0442 - F NR_newRAT-Core

R2-1815106 Introducing capability of A-CSI-RS beam switching timing Huawei, Hisilicon CR Rel-15 38.306 15.3.0 0043 - F NR_newRAT-Core

R2-1815382 Introduction of UE capability for pi/2 BPSK modulation with power boosting capability Indian Institute of Tech (M), Indian Institute of Tech (H), CEWiT CR Rel-15 38.306 15.3.0 0049 - B NR_newRAT-Core

R2-1815146 Clarification on physical layer parameters of UE capability Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0047 - F NR_newRAT-Core
=> Agreed in principle

L2 parameters

R2-1813884 Clarifications to NR PDCP capabilities in LTE RRC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3579 - F NR_newRAT-Core
=> Not agreed

R2-1815556 Correction to FDD/TDD Diff for NR PDCP Capabilities Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3674 F NR_newRAT-Core
=> Agreed in principle

Measurement parameters

R2-1814537 Clarification for Interruption-based and gap-based SFTD measurement Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.3.0 0016 3 F NR_newRAT-Core R2-1812751
=> Agreed in principle

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R2-1815107 clarification of SFTD Huawei, Hisilicon CR Rel-15 38.306 15.3.0 0044 - F NR_newRAT-Core

R2-1814538 Clarification to UE capability of independentGapConfig for inter-RAT NR measurement not yet configured with EN-DC Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.3.0 0037 - F NR_newRAT-Core
=> Agreed in principle

Other

R2-1814233 UE capabilty for IDC mechanism for EN-DC operation Qualcomm Incorporated CR Rel-15 36.306 15.2.0 1652 - F NR_newRAT-Core
=> Agreed in principle

R2-1814234 UE capabilty for IDC mechanism for EN-DC operation Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3599 - F NR_newRAT-Core
=> otherParameters-v15xy does not need to be optional
=> Agreed in principle in R2-1815866

R2-1813882 Clarification on capabilities transferring Google Inc. CR Rel-15 36.331 15.3.0 3578 - F NR_newRAT-Core
=> Agreed in principle

Withdrawn

R2-1813773 Clarifications to NR PDCP capabilities in LTE RRC Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0210 - F NR_newRAT-Core Withdrawn

R2-1814150 Clarification on UE capability for measurement on non-monitored carrier Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0031 - F NR_newRAT-Core Withdrawn

10.4.4.3 UE capabilities for standalone

R2-1814591 Discussion on the details of voice capability HUAWEI TECH. GmbH discussion Rel-15 NR_newRAT-Core R2-1812942

- Nokia think the UE that supports IMS voice needs to be capable of having a session with the appropriate 5QI for voice configured.
- Qualcomm would like to differentiate the existing capability between FR1 and FR2 as the jitter could be quite different and hence implementation different in the UE.

Agreements
1 We do not define an additional AS UE capability(ies) for support of IMS voice beyond what is already specified.
2. The existing IMS voice capability is defined to be different for FR1/FR2 but not different for FDD/TDD,
3 IMS voice over NR capability in UE-EUTRA-Capability is defined to be different for FR1/FR2

=> 2 to be captured in a rapporteur CR to 38.331/38.306
=> 3 to be captured in CR resulting from inter-RAT HO discussion

R2-1814226 Remaining Issues in UE Radio Capability for IMS Voice Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

Agreements
1 Define VoLTE-5GC capability in UE-NR-Capability for gNB

=> To be captured in a rapporteur CR to 38.331/38.306

R2-1814595 CR to 36.331 introducing voice over NR capability HUAWEI TECH. GmbH CR Rel-15 36.331 15.3.0 3620 - F NR_newRAT-Core R2-1812943
=> Revised in R2-1815830

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R2-1815830 CR to 36.331 introducing voice over NR capability HUAWEI TECH. GmbH CR Rel-15 36.331 15.3.0 3620 1 F NR_newRAT-Core

R2-1814237 Additional UE capabilities for NR standalone Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0291 - F NR_newRAT-Core
=> Remove the handoverENDC
=> Agreed in principle in R2-1815887

R2-1814238 Additional UE capabilities for NR standalone Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0035 - F NR_newRAT-Core
=> Remove the handoverENDC
=> Agreed in principle in R2-1815888

R2-1814533 UE Per-FR measurement capability supporting for SA Nokia, Nokia Shanghai Bell discussion

R2-1814534 Add UE per-FR measurement capability for standalone Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0349 - F NR_newRAT-Core

R2-1815263 Correction on definition of supportedGapPattern CMCC CR Rel-15 38.306 15.3.0 0048 - F NR_newRAT-Core
=> Correct the specification reference for this field in the 38.306 rapporteur CR

R2-1815262 On UE capability of supportedgappattern CMCC discussion NR_newRAT-Core

R2-1815264 Reply LS on measurement gap applicability CMCC LS out NR_newRAT-Core To:RAN4

R2-1814573 Update on L2 capabilities Ericsson CR Rel-15 38.306 15.3.0 0038 - F NR_newRAT-Core
=> Agreed in principle

R2-1814574 Update on L2 capabilities Ericsson CR Rel-15 38.331 15.3.0 0355 - F NR_newRAT-Core
=> Agreed in principle

R2-1814944 Split DRB-IP data rate for UL and DL Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1815089 Integrity Protection data rate enumeration Qualcomm Incorporated discussion Rel-15

10.4.4.4 Other

10.4.5 Idle/inactive mode procedures

This AI addresses the idle and inactive behaviour specified in 38.304 or 36.304. Other aspects related to inactive (e.g. state transitions or other behaviour triggered by cell reselection, out of coverage, etc) are covered under RRC agenda items (10.4.1.x)

Documents in this agenda item will be handled in a break out session

10.4.5.1 TS

Rapporteur inputs.

R2-1815446 CR to introduction of MICO mode Fujitsu CR Rel-15 38.304 15.1.0 0068 - F NR_newRAT-Core

10.4.5.2 Cell selection/reselection

Corrections to criteria and rules for cell selection and reselection

Camped on any cell and Any cell selection:

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R2-1814508 Corrections on cell selection and reselection states Ericsson CR Rel-15 38.304 15.1.0 0008 2 F NR_newRAT-Core R2-1812280

R2-1813835 Correction on UE behavior in inactive state CATT CR Rel-15 38.304 15.1.0 0028 1 F NR_newRAT-Core R2-1811248
=> Revised to R2-1815814

R2-1815814 Correction on UE behavior in inactive state CATT CR Rel-15 38.304 15.1.0 0028 2 F NR_newRAT-Core R2-1811248

R2-1813778 Discussion on Camped on any cell and Any cell selection for RRC_INACTIVE OPPO discussion Rel-15 NR_newRAT-Core

R2-1813782 Connections on cell reselection for inactive OPPO CR Rel-15 38.304 15.1.0 0050 - F NR_newRAT-Core

R2-1815064 Discussion on cell selection in case of state transition Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

BWP related:

R2-1814433 Reselection to cell with intiail BWP that has BW not supported by UE Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814495 Initial DL BWP and cell reselection Intel Corporation discussion Rel-15 NR_newRAT-Core
=> Noted
- Qualcomm, Samsung and CATT support the proposal from Intel.
- Ericsson support Nokia proposal.
=> Waiting for the progress of the UE capability discussion in main room.

R2-1814434 Reselection to cell with intiail BWP that has BW not supported by UE Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0331 - F NR_newRAT-Core

Other small correction:

R2-1815066 Clarification on final suitability check Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0062 - F NR_newRAT-Core
- Samsung and Intel prefer to not have the behaviour in spec.
CB on Thursday: Revised in R2-1815776 (offline# 210, Huawei)
=> Find a proper section or place to capture the behaviour.

R2-1815776 Clarification on final suitability check Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0062 1 F NR_newRAT-Core
=> change criteria to criterion
=> With this change CR is in principle agreed in R2-1816004.

R2-1815121 Correction to Ambiguous Terminologies with respect to Cell Ranking Samsung Electronics CR Rel-15 38.304 15.1.0 0063 - F NR_newRAT-Core
=> Change CAT F to D
=> Cover page should be improved
=> With these changes the CR is in principle agreed in R2-1815975

R2-1813836 Correction on UE behaviour in inactive state upon inter-RAT cell (re)selection CATT CR Rel-15 38.304 15.1.0 0052 - F NR_newRAT-Core
=> not pursued.

R2-1815259 Corrections on P-Max description CMCC CR Rel-15 38.331 15.3.0 0457 - F NR_newRAT-Core
=> CR is agreed in principle.

R2-1815260 Add p-Max for SUL in SIB2 and SIB4 CMCC CR Rel-15 38.331 15.3.0 0458 - F NR_newRAT-Core
=> Not pursued

R2-1815261 Correction on definition of PEMAX1, PEMAX2 CMCC CR Rel-15 38.304 15.1.0 0066 - F NR_newRAT-Core

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=> Add impact analysis should be added.
CB on Thursday: Revised in R2-1815777 (CMCC, offline# 222)

R2-1815777 Correction on definition of PEMAX1, PEMAX2 CMCC CR Rel-15 38.304 15.1.0 0066 1 F NR_newRAT-Core
=> Agreed in principle.

R2-1815362 Correction on the conditional presence of CellSelectionInfo in SIB1 Samsung Electronics CR Rel-15 38.331 15.3.0 0471 - F NR_newRAT-Core

R2-1815363 Correction on Qoffset_temp condition Samsung Electronics CR Rel-15 38.331 15.3.0 0472 - F NR_newRAT-Core

R2-1815460 Clarifiaction of definition of Qoffsettemp LG Electronics Deutschland CR Rel-15 38.304 15.1.0 0069 - F NR_newRAT-Core
=> Not pursued

R2-1815364 Correction on connection establishment failure counting for Qoffset_temp Samsung Electronics CR Rel-15 38.331 15.3.0 0473 - F NR_newRAT-Core

R2-1815393 clarification of mobility state detection criteria Huawei, Hisilicon CR Rel-15 38.304 15.1.0 0067 - F NR_newRAT-Core
=> Change to “less than or equal to”.
=> CR is agreed in principle in R2-1815976.

R2-1815446 CR to introduction of MICO mode Fujitsu CR Rel-15 38.304 15.1.0 0068 - F NR_newRAT-Core
CB on Thursday: Agree the intention and improve the wording in offline #223 (R2-1815778, Fujitsu)

R2-1815778 Introduction of MICO mode Fujitsu discussion
=> Noted
=> Postponed to next meeting

Others:

R2-1815179 CR on introduction of load redistribution in RRC_IDLE and RRC_INACTIVE in TS38.304 China Telecom, ZTE Corporation, Sanechips CR Rel-15 38.304 15.1.0 0064 - B NR_newRAT-Core
=> Not pursued in this release.

R2-1813623 Speed dependent cell reselection priority KDDI Corporation, Kyocera discussion R2-1811277

R2-1814471 Inter-frequencycell Redistribution in RRC_IDLE and RRC_INACTIVE China Telecom, ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1814509 Handling RAT priorities in low freq NR deployment scnearios Ericsson discussion Rel-15 NR_newRAT-Core R2-1812279

R2-1814510 Cell-specific priority based cell re-selection Ericsson discussion Rel-15 NR_newRAT-Core R2-1804721

R2-1814511 Cell-specific priority based cell re-selection Ericsson CR Rel-15 38.304 15.1.0 0058 - F NR_newRAT-Core

R2-1814512 Cell-specific priority based cell re-selection Ericsson CR Rel-15 38.331 15.3.0 0343 - F NR_newRAT-Core

R2-1814520 Measurement threshold with different power class UEs Ericsson discussion Rel-15 NR_newRAT-Core R2-1812278

R2-1814521 Correction for Pcompensation Ericsson CR Rel-15 38.304 15.1.0 0059 - F NR_newRAT-Core

R2-1814767 Mobility scaling for idle mode measurements Sequans Communications discussion R2-1805767

R2-1815065 Correction to cell selection in case of state transition Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0061 - F NR_newRAT-Core

R2-1815067 Consideration on cell reselection in multi-beam scenario Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

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R2-1815159 CR on introduction of load redistribution in RRC_IDLE and RRC_INACTIVE in TS38.331 China Telecom, ZTE corporation, Sanechips CR Rel-15 38.331 15.3.0 0452 - B NR_newRAT-Core

R2-1815248 Mobility-state-based cell reselection in NR for HSDN CMCC discussion NR_newRAT-Core R2-1811505

R2-1815249 38331 CR to introduce mobility-state-based cell reselection for NR HSDN CMCC CR Rel-15 38.331 15.3.0 0035 1 F NR_newRAT-Core R2-1811506

R2-1815250 38304 CR to introduce mobility-state-based cell reselection for NR HSDN CMCC CR Rel-15 38.304 15.1.0 0065 - F NR_newRAT-Core R2-1811507

R2-1815463 Corrections on cell selection and reselection states Ericsson CR Rel-15 38.304 15.1.0 0008 3 F NR_newRAT-Core R2-1812280 Withdrawn

R2-1815464 Handling RAT priorities in low freq NR deployment scnearios Ericsson discussion Rel-15 NR_newRAT-Core R2-1812279 Withdrawn

R2-1815465 Cell-specific priority based cell re-selection Ericsson discussion Rel-15 NR_newRAT-Core R2-1804721 Withdrawn

R2-1815466 Cell-specific priority based cell re-selection Ericsson CR Rel-15 38.304 15.1.0 0070 - F NR_newRAT-Core Withdrawn

R2-1815467 Cell-specific priority based cell re-selection Ericsson CR Rel-15 38.331 15.3.0 0484 - F NR_newRAT-Core Withdrawn

R2-1815475 Measurement threshold with different power class UEs Ericsson discussion Rel-15 NR_newRAT-Core R2-1812278 Withdrawn

R2-1815476 Correction for Pcompensation Ericsson CR Rel-15 38.304 15.1.0 0071 - F NR_newRAT-Core Withdrawn

R2-1815501 Miscellaneous corrections Nanjing Ericsson Panda Com Ltd CR Rel-15 38.304 15.1.0 0072 - F NR_newRAT-Core

R2-1815543 Correction to cell reselection in multi-beam scenario Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0073 - F NR_newRAT-Core

10.4.5.3 Idle/inactive paging

Corrections to paging

R2-1813609 Clarification of Paging Monitoring Occasion Qualcomm Incorporated CR Rel-15 38.304 15.1.0 0047 - F NR_newRAT-Core
=> Postponed
CB on Thursday:=> Agree the change “The starting symbols of PDCCH monitoring occasions can span multiple periodicities signalled in the *paging-SearchSpace.*” And the wording can be improved in offline discussion #234 (Qualcomm, R2-1815779). Also discuss the clarification of paging for better wording.

R2-1815779 Clarification of Paging Monitoring Occasion Qualcomm Incorporated CR Rel-15 38.304 15.1.0 0047 1 F NR_newRAT-Core
=> Remove “where the first PO starts in the PF” in 7.1
=> Update the note to capture the case of PO in span multiple frames
=> RAN2 confirms that the first PO may not be in the PF.
=> With these changes CR is agreed in principle in R2-1816005.

R2-1814030 CR on PDCCH monitoring occasions for paging in TS 38.304 ZTE Corporation, Sanechips CR Rel-15 38.304 15.1.0 0055 - F NR_newRAT-Core
=> Remove “If *pagingSearchSpace* is not configured, UE does not receiving paging in this BWP.”
=> With this change CR is agreed in principle in R2-1815978

R2-1814435 non default association correction Nokia, Nokia Shanghai Bell CR Rel-15 38.304 15.1.0 0057 - F NR_newRAT-Core

R2-1813687 Correction to description of default and non-default association for paging Samsung Electronics Co., Ltd CR Rel-15 38.304 15.1.0 0048 - F NR_newRAT-Core

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R2-1813689 Correction to description of PO for default association Samsung Electronics Co., Ltd CR Rel-15 38.304 15.1.0 0049 - F NR_newRAT-Core
CB on Thursday: Revised in R2-1815780 (Offline#235, Samsung)

R2-1815780 Correction to description of PO for default association Samsung Electronics Co., Ltd CR Rel-15 38.304 15.1.0 0049 1 F NR_newRAT-Core
=> Agreed in principle

R2-1813784 Connections on 38.304 OPPO CR Rel-15 38.304 15.1.0 0051 - F NR_newRAT-Core
=> The first and second changes should be removed
=> Change perfrom to perform
=> With these changes the CR is agreed in principle in R2-1815977

R2-1814186 Discussion on RAN1 LS for PF and PO configuration vivo discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1815488 Reply LS on further clarification on PF and PO vivo LS out Rel-15 NR_newRAT-Core To:RAN1
=> Noted

R2-1814955 [DRAFT] Reply LS on Further Agreements on Paging Occasions Futurewei Technologies response Rel-15
- vivo think we should clarify the overlapping case in the LS.
CB on Thursday: Draft reply LS in R2-1815781 (Offline 250, Futurewei)based on R2-1814955 and also including the clarification of overlapping problem mentioned in R2-1815488.

R2-1815781 [DRAFT] Reply LS on Further Agreements on Paging Occasions Futurewei Technologies response Rel-15
=> LS is approved in R2-1816006.

R2-1814522 Paging occasions in NR Ericsson discussion Rel-15 NR_newRAT-Core
=> Not treated

R2-1814523 Paging in connected mode Ericsson discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814524 Clarification on paging in connected mode Ericsson CR Rel-15 38.331 15.3.0 0345 - F NR_newRAT-Core
=> Remove “NOTE: If the UE in RRC_CONNECTED is not able to re-acquire *SIB1* or other *SIBs* the UE forwards the *etwsAndCmasIndication* to upper layer. ”
CB on Thursday:=> Improve it to some simple wording through offline discussion (Offline#251, Ericsson, R2-1815782)

R2-1815782 Clarification on paging in connected mode Ericsson CR Rel-15 38.331 15.3.0 0345 1 F NR_newRAT-Core
=> Agreed in principle

R2-1814493 Paging reception for a UE in camped on any cell state Intel Corporation discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814494 Draft LS on the need of paging reception for the call-back when a UE is in limited service state Intel Corporation LS out Rel-15 NR_newRAT-Core To:SA2
CB on Thursday on the updated draft LS in R2-1815783 (Offline#255, Intel)

R2-1815783 Draft LS on the need of paging reception for the call-back when a UE is in limited service state Intel Corporation LS out Rel-15 NR_newRAT-Core To:SA2, SA1
=> change to “RAN2 respectfully asks SA2/SA1 to provide the information on the requirement of paging message reception for the call-back to the emergency call while the UE is in limited service state. If there is no such a requirement currently, would it be introduced in future? ”
=> With this change, LS is approved in R2-1816007.

R2-1815125 Discussion on Paging Monitoring in Camped on Any Cell state Samsung Electronics discussion

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R2-1813614 Clarification of PO offset definition Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0184 - F NR_newRAT-Core
=> Not pursued.

R2-1813779 Discussion on paging reception failure for RRC_INACTIVE state OPPO discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1814853 CR for TS38.304 on paging Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0060 - F NR_newRAT-Core

R2-1814513 Paging duration in RAN Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814514 LS on paging duration in RAN Ericsson LS out Rel-15 NR_newRAT-Core To:RAN3, SA2

R2-1814516 LS on UE identity to calculate PF and PO in NR Ericsson LS out Rel-15 NR_newRAT-Core To:RAN3, SA2, CT1
=> LS is approved in R2-181xxxx

R2-1813780 Discussion on SI change indication for RRC_CONNECTED UE OPPO discussion Rel-15 NR_newRAT-Core

R2-1813781 38.331CR on SI change indication for RRC_CONNECTED UE OPPO CR Rel-15 38.331 15.3.0 0212 - F NR_newRAT-Core

R2-1813783 Draft LS on the SI change indication OPPO LS out Rel-15 NR_newRAT-Core To:RAN1

R2-1813837 Correction for paging search space CATT CR Rel-15 38.304 15.1.0 0053 - F NR_newRAT-Core

R2-1813876 Corrections on DRX Value Calculation in Paging Spreadtrum Communications CR Rel-15 38.304 15.1.0 0054 - F NR_newRAT-Core

R2-1814252 Clarifications on default and non-default associations Sharp discussion Rel-15 NR_newRAT-Core

R2-1815337 Remaining issues for PO LG Electronics Inc. discussion NR_newRAT-Core

R2-1815468 Paging duration in RAN Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1815469 LS on paging duration in RAN Ericsson LS out Rel-15 NR_newRAT-Core To:RAN3, SA2 Withdrawn

R2-1815470 UE identity to calculate PF and PO Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1815471 LS on UE identity to calculate PF and PO in NR Ericsson LS out Rel-15 NR_newRAT-Core To:RAN3, SA2, CT1 Withdrawn

R2-1815472 Correction on paging for LTE connected to 5GC Ericsson CR Rel-15 36.304 15.1.0 0753 - F NR_newRAT-Core Withdrawn

R2-1815477 Paging occasions in NR Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1815478 Paging in connected mode Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1815479 Clarification on paging in connected mode Ericsson CR Rel-15 38.331 15.3.0 0486 - F NR_newRAT-Core Withdrawn

10.4.5.4 Idle mobility from LTE to NR

Corrections to LTE TS 36.304 on idle mobility from LTE to NR.

10.5 Late Drop

10.5.1 NG-EN DC, NE-DC and NR-NR DC common aspects

Stage 2 aspects that are common to NG-EN-DC and NE-DC. Some aspects may also be common to NR-NR DC

Including output of email discussion [103#47][NR late drop] 37.340 agreements [ZTE]
Including output of email discussion [103#50][NR late drop] MR-DC configuration in INACTIVE [Interdigital]:
Including output of email discussion [103#51][NR late drop] MR-DC security aspects [Huawei]:
Including output of email discussion [103#52][NR late drop] MR-DC measurement and gap configuration framework [CATT]:

Email discussion #47

R2-1814891 Summary of [103#47][NR late drop] - 37.340 agreements ZTE Corporation discussion Rel-15 NR_newRAT-Core

Agreements
1a RAN2 confirm that, for SN terminated bearers, the SN is responsible to assign the DRB IDs.
1b: The MN indicates to the SN the DRB IDs within which the SN can allocate the IDs by itself.
2: There is at most only one default DRB per PDU session, also in case of a split PDU session.

R2-1814893 Introduction of NR-DC ZTE Corporation CR Rel-15 37.340 15.3.0 0072 - B NR_newRAT-Core
=> Remove " For intra-gNB NR-DC " from 4.2.1
=> We will merge into a single stage 2 CR for all MRDC options.
=> To be merged into R2-1815969

R2-1814894 Agreements for MR-DC with 5GC ZTE Corporation CR Rel-15 37.340 15.3.0 0073 - F NR_newRAT-Core
=> Check if " split PDU sessions " is the correct terminology
=> Remove " a range of " from 8.2
=> Revised in R2-1815969 (Offline discussion 80)

R2-1815969 Agreements for MR-DC with 5GC ZTE Corporation CR Rel-15 37.340 15.3.0 0073 1 F NR_newRAT-Core
=> Revised in R2-1816017

R2-1816017 Agreements for MR-DC with 5GC ZTE Corporation CR Rel-15 37.340 15.3.0 0073 2 F NR_newRAT-Core

✉ **[103bis#09][NR] Late drop 37.340 CR (ZTE)**
Capture agreements from this meeting
Intended outcome: CR to be submitted to next meeting
Deadline: Thursday 2018-10-25

Email discussion #50 - inactive

R2-1814021 Summary of [103#50][NR late drop] - MR-DC configuration in INACTIVE (Interdigital) InterDigital discussion Rel-15 NR_newRAT-Core

Agreements
1: For NE-DC, NGEN-DC, and NR-DC, the UE stores the PDCP/SDAP configuration when moving to INACTIVE. When resuming, the UE applies the stored PDCP/SDAP configuration as in NR SA/LTE.
2 A UE releases its lower-layer SCG configuration in RRC_INACTIVE
3 RAN2 understand that discussion on keeping the lower layer SCG configuration in Inactive would fit within the existing scope of the DC/CA enhancements WI
4 RAN2 understand that before suspend or in the resume message, the network should reconfigure any SCG only bearers so that at completion of the resume the UE is not left with any DRB without any RLC bearer (may not need to be captured in the specification)

R2-1814394 On retaining lower layer configuration of SCG in RRC_INACTIVE Nokia, Nokia Shanghai Bell, Apple Inc., Intel Corporation, MediaTek Inc, NTT DOCOMO. discussion Rel-15 NR_newRAT-Core

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- ZTE think whether to keep the lower layer config is a RAN2 decision and not SA2 decision.
- IDC think that we can go beyond meeting the SA2 requirements.
- Huawei think that time is short for R15 and we should complete the essential parts. We should not optimise now.
- Qualcomm think we don't need to be limited by SA2.
- Intel think that reconfiguring in the Resume will require MN/SN coordination before Msg 4 which will add delay to the resume. It will only save some bytes in the reconfiguration message.
- Ericsson think the impacts of keeping SCG is very small and that it can reduce latency, and the size saving can be significant.
- Vivo think we should discuss the whole picture in Rel-16
- MediaTek think it may not reduce the overhead if the physical layer config changes and it can only give benefit if the UE remains in the same location.
- Apple think it is better to just release the lower layer configuration.
- LG thinks it is possible to release the SCG in message 4 and so it is not necessary to coordinate with SN before resuming.
- Samsung agree it would be technically better to configure based on measurement report which would be part of the Rel16 SI.

=> Noted

R2-1813945 Further consideration on SCG Reconfiguration for RRC_INACTIVE ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1813600 MR-DC in RRC_INACTIVE State Qualcomm Incorporated discussion R2-1811860

R2-1813788 INACTIVE state supporting for MR-DC with 5GC OPPO discussion Rel-15 NR_newRAT-Core

R2-1814666 Secondary Node Resume in NE-DC and NR-DC (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1815204 Handling of Lower Layer SCG Configuration in RRC_INACTIVE III discussion NR_newRAT-Core

Email discussion #51 - security

R2-1814693 [103#51][NR late drop] MR-DC security aspects Huawei (Rapporteur) discussion Rel-15 NR_newRAT-Core Late

Agreements

1: The key derivation principles for NGEN-DC, NE-DC and NR-DC are:

1) For NGEN-DC, S-KgNB is derived from sk-Counter-r15 and KeNB
2) For NE-DC, S-KeNB is derived from sk-Counter-r15 and KgNB
3) For NR-DC, S-KgNB is derived from sk-Counter-r15 and KgNB

2a: The principles of SN key change initiation for NGEN-DC (same EN-DC):

- PSCell change does not always require a security key change
- S-KgNB change may be initiated by the MN, e.g. upon KeNB change (e.g. due to change of PCell or before COUNT wrap around for MN-terminated bearers) or upon MN-initiated PSCell change when there are SN-terminated bearers
- S-KgNB change may be initiated by the SN, e.g. upon SN-initiated PSCell change when there are SN-terminated bearer or before COUNT wrap around for SN-terminated bearers

2b: The principles of SN key change initiation for NE-DC:

- PSCell change always requires a security key change (since handover without key change is not supported in E-UTRAN)
- S-KeNB change may be initiated by the MN, e.g. upon KgNB change (e.g. due to change of PCell or to before COUNT wrap around for MN-terminated bearers) or upon MN-initiated PSCell change when there are SN-terminated bearers
- PCell change without KgNB change does not require S-KeNB change
- S-KeNB change may be initiated by the SN, e.g. upon SN-initiated PSCell change when there are SN-terminated bearer or before COUNT wrap around for SN-terminated bearers

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2c: The principles of SN key change initiation for NR-DC:
- PSCell change does not always requires a security key change
- S-KgNB change may be initiated by the MN, e.g. upon KgNB change (e.g. due to change of PCell or before COUNT wrap around for MN-terminated bearers) or upon MN-initiated PSCell change when there are SN-terminated bearers
- PCell change without KgNB change does not require S-KgNB change
- S-KeNB change may be initiated by the SN, e.g. upon SN-initiated PSCell change when there are SN-terminated bearer or before COUNT wrap around for SN-terminated bearers

3: For all MR-DC options:
- SN RRC configuration (IE or message) sent via (MN-terminated/MCG SRB) is ciphered and integrity protected by MN
- Except NE-DC, NR RRC message sent via SRB3 is ciphered and integrity protected by SN

4 MR-DC can only be configured after security activation in the MN.

=> Draft LS to SA3 in R2-1815979 to ask SA3 about the DRB IP requirements for NGEN-DC and NE-DC and NR-DC. Indicate that for NR-DC we do not envisage any additional work from RAN2 point of view to support (Offline discussion 81, Intel)

=> Also ask SA3, in case DRB IP is supported for an MR-DC option, when the policy for a PDU section with respect to DRB IP is "preferred", DRB IP should be either activated for all MN- and SN-terminated bearers or whether it is possible for MN and SN to make a different decision for DRB activation.

R2-1815979 [DRAFT] LS on security requirements for Integrity protection for DRBs in MR-DC Intel LS out Rel-15 NR_newRAT-Core To:SA3

=> Approved in R2-1816054

✉ **[103bis#25][NR] Remaining security issues for MR-DC (Intel)**
- Algorithm handling for NG-EN-DC and NE-DC – which algorithm to use, understand any differences, what specification updates are needed for the different options, how to ensure independent evolution of LTE and NR algorithms
- When should DRB-IP reconfiguration be supported (e.g. due DRB IP policy change)

Intended outcome: Report to next meeting and TP for the different options
Deadline: Thursday 2018-11-01

R2-1814614 User plane integrity protection for MR-DC China Telecom discussion

R2-1814094 Security configuration for eLTE and MR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814687 Clarification on the security for MR-DC under 5GC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814688 DRAFT reply LS on Dual Connectivity Huawei, HiSilicon LS out Rel-15 NR_newRAT-Core To:SA3

R2-1813669 DRAFT LS on Granularity of security protection for DRBs MediaTek Inc. LS out Rel-15 NR_newRAT-Core To:SA3

R2-1813707 Enable or disable DRB IP without MAC reset vivo CR Rel-15 38.331 15.3.0 0204 - F NR_newRAT-Core R2-1811978

R2-1813708 Enable or disable DRB IP without MAC reset vivo discussion Rel-15 NR_newRAT-Core R2-1811979

R2-1813786 the security open issues for MR-DC OPPO discussion Rel-15 NR_newRAT-Core

R2-1813790 37.340 Text proposal on security for MR-DC OPPO CR Rel-15 37.340 15.3.0 0057 - F NR_newRAT-Core

R2-1813990 Integrity protection of DRBs in MR-DC Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1814095 CR to 38.331 on security configuration for eLTE and MR-DC Ericsson CR Rel-15 38.331 15.3.0 0256 - F NR_newRAT-Core

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R2-1814222 Enabling and disabling integrity protection on a DRB in MR-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT R2-1811442

R2-1814672 [DRAFT] Reply LS to SA3 on LS on Dual Connectivity Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814898 UP Security indication for split PDU session ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core R2-1811738

R2-1815374 Discussion on security support for NE-DC and NGEN-DC Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1815377 clarificaiton on using different counter value Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

Email discussion #52 - measurements

R2-1813838 Summary of [103#52][NR late drop] MR-DC measurement and gap configuration framework CATT discussion Rel-15 NR_newRAT-Core

Show of hands

Proposal 6 option 1: [15]

Proposal 6 option 2: [5]

Agreements

1: Descriptions on measurement framework in TS 37.340 are applicable to NG-EN DC, NE-DC, and NR-DC, except that SN can only configure measurements embedded in MN RRC message via SRB1 for NE-DC.

2: Descriptions on coordination to avoid exceeding the maximum number of measured layers in TS 37.340 are applicable to NG-EN DC, NE-DC and NR-DC.

3: Descriptions on measurement result exchange between nodes in TS 37.340 are applicable to NG-EN DC, NE-DC and NR-DC, with the modification that measurement results are encoded according to SN's RRC instead of NR RRC when they are provided by MN to SN.

4: Descriptions on measurement gap/gap sharing configuration for EN-DC in TS 37.340 are applicable to NG-EN DC.

5: For NE DC, measurement gap(s)/gap sharing configuration are configured by MN, including per-UE gap, per FR1 gap and per FR2 gap.

6: For NR-DC, measurement gap(s) /gap sharing configuration are configured by MN, including per-UE gap, per FR1 gap and per FR2 gap.

7: Descriptions on measurement gap coordination for EN-DC in TS 37.340 are applicable to NG-EN DC.

8 Measurement gap coordination for NE-DC:

MN->SN: per UE or FR1 gap pattern

SN->MN: gap request (without frequency list)

9: Measurement gap coordination for NR-DC:

MN->SN: the configured per-UE or FR1 or FR2 measurement gap pattern and the gap purpose

SN -> MN: a list of SN configured frequencies in FR1 and FR2 measured by the UE

R2-1814674 Open issues on SCG measurement results and reporting for MR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814675 SCG measurement results and reporting for MR-DC (37.340) Ericsson CR Rel-15 37.340 15.3.0 0075 - B NR_newRAT-Core

R2-1814676 SCG measurement results and reporting for MR-DC (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1813815 Discussion on common framework of measurement gap configuration for NE-DC and NR-DC Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1814678 MR-DC measurement principles Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814679 MR-DC measurement principles (37.340) Ericsson CR Rel-15 37.340 15.3.0 0074 - B NR_newRAT-Core

R2-1815276 Measurement Gap Configuration for NE-DC and NR-DC CMCC discussion NR_newRAT-Core

R2-1815428 Measurement gap coordination for NE-DC and NR-DC NTT DOCOMO INC. discussion Rel-15 38.331 NR_newRAT-Core

CG failure handing

R2-1813841 CG failure handling for MR-DC CATT discussion Rel-15 NR_newRAT-Core

R2-1814945 SCG/MCG failure handling in MR-DC Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1814559 MCG failure handling in case of NE-DC and NR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814560 MCG failure handling in case of NE-DC and NR-DC Ericsson CR Rel-15 37.340 15.3.0 0062 - B NR_newRAT-Core

R2-1814561 MCG failure handling in case of NE-DC and NR-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814562 SCG failure handling in case of NE-DC and NR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814563 SCG failure handling in case of NE-DC and NR-DC Ericsson CR Rel-15 37.340 15.3.0 0063 - B NR_newRAT-Core

R2-1814697 CR on 37.340 on SCG/MCG failure handling Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0070 - F NR_newRAT-Core

Other

R2-1813785 Discussion on ANR in MR-DC OPPO discussion Rel-15 NR_newRAT-Core

R2-1813787 the SDAP supporting for MR-DC OPPO discussion Rel-15 NR_newRAT-Core

R2-1813789 37.340 CR on SDAP configuraiton for MR-DC OPPO CR Rel-15 37.340 15.3.0 0056 - F NR_newRAT-Core

R2-1813839 Bearer Type Negotiation for MR-DC with 5GC CATT discussion Rel-15 NR_newRAT-Core R2-1811225

R2-1814120 Analysis for supporting of inter-system MR-DC HO Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814307 QoS Aspects for MR-DC and NR-NR DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814308 In Order Delivery during QoS Flow Relocation in MR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814326 Bearer type selection for SN terminated DRB in MR-DC with 5GC NEC discussion Rel-15 37.340 NR_newRAT-Core

R2-1814390 DRB-ID assignment in dual connectivity with 5GC Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1814551 Inter-node RRC messages for MR-DC Ericsson CR Rel-15 37.340 15.3.0 0061 - B NR_newRAT-Core

R2-1814552 Support of SRBs for MR-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814576 Clarification on bearer type selection for MR-DC with 5GC Ericsson CR Rel-15 37.340 15.3.0 0065 - B NR_newRAT-Core

R2-1814668 Release of secondary cell group in NR-DC and NE-DC (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1814669 Support for inter-system MR-DC HO Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814670 Support for inter-system MR-DC HO (37.340) Ericsson CR Rel-15 37.340 15.3.0 0076 - B NR_newRAT-Core

R2-1814694 Control Plane for NGEN-DC and NE-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814699 Inter-node message for NGEN-DC and NE-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

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R2-1814896 RAN assisted codec adaptation in MR-DC ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core R2-1811739

R2-1814952 RRC impact in MR-DC Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1815094 Discussion on the bearer type negotiation for MR-DC with 5GC Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core R2-1812552

R2-1815095 Discussion on MR-DC UE Ccapabilities for Option4 and Option 7 Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core R2-1812553

Agreements
1 Introduce one per UE capability indication in UE-EUTRA-Capability to indicate support of option 7 and introduce one per UE capability indication in UE-NR-Capability to indicate support of option 4
2 NGEN-DC can reuse all the capabilities parameters of EN-DC.
3 Add ability to request NE-DC capabilities into NR RRC.

✉ **[103bis#26][NR] NE DC capability parameters (Huawei)**
Identify which parameters introduced for EN-DC are or are not applicable for NE-DC
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

R2-1815096 Draft LS to RAN4 on MR-DC UE capabilities Huawei, Hisilicon LS out Rel-15 NR_newRAT-Core To:RAN4
=> Add RAN1
=> Ask if the UE support a BC in EN-DC does it mean the UE supports the same band combination NE-DC
=> Ask RAN4 to confirm that a supported EN-DC BC is also support for EGEN-DC.
=> Ask if the UE supports a NR CA BC does it mean the UE supports the same band combination for NR-DC.

✉ **[103bis#04][NR] Late drop UE capabilities (Huawei)**
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18

R2-1815097 Discussion on SFTD measurement for late drop Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core R2-1812567

R2-1815188 DataInactivityTImer in NR LG Electronics Inc. discussion NR_newRAT-Core

R2-1815312 Management of SN-terminated DRBs Samsung Electronics GmbH discussion R2-1812537

R2-1815383 Inter-node messages for NGEN-DC, NE-DC and NR-NR DC Google Inc. discussion Rel-15 NR_newRAT-Core R2-1812898

R2-1815402 CR on 37.340 for inter-system MR-DC HO Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 F NR_newRAT-Core

R2-1815436 RRC Re-establishment Enhancement in MR-DC LG Electronics Inc. discussion Rel-15 NR_newRAT-Core R2-1812826

R2-1815540 CR on introduction of gap request to 38.331 CMCC CR Rel-15 38.331 15.3.0 0497 - F NR_newRAT-Core

R2-1814173 Consideration on the UL path of split SRB in re-establishment procedure LG Electronics France discussion Rel-15 NR_newRAT-Core

R2-1814421 SCG and resume Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0322 - F NR_newRAT-Core

10.5.2 NG-EN DC

Stage 2 aspects specific to NG-EN-DC

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R2-1814002 Security algorithm configuration for RBs in NG-EN-DC Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1814093 SN counter in resume operation for NGEN-DC Ericsson CR Rel-15 36.331 15.3.0 3594 - F LTE_5GCN_connect-Core

R2-1814507 Consideration on measurement configuration in NG-EN DC Nokia, Nokia Shanghai Bell discussion R2-1812712

R2-1814695 CR on 37.340 for PDCP version of SRBs in E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0069 - F NR_newRAT-Core

R2-1815542 Support of full configuration operation in NG-EN DC SHARP Corporation discussion

10.5.3 NE-DC

Stage 2 aspects specific to NE-DC

R2-1813812 Discussions on RRM in option 4 (NE-DC) Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core R2-1811855

R2-1813840 UE Behaviors after CG Failure in Case of NE-DC CATT discussion Rel-15 NR_newRAT-Core R2-1811227

R2-1813991 LTE RRC configuration for NE-DC Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1814506 Consideration on Measurement configuration in NE-DC Nokia, Nokia Shanghai Bell discussion R2-1812710

R2-1814547 Inter-node RRC messages for NE-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814548 Inter-node RRC messages for NE-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814553 SCG failure handling in case of NE-DC Ericsson draftCR Rel-15 36.331 15.3.0 NR_newRAT-Core

R2-1814554 SCG failure handling in case of NE-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814564 NR RRC design principles for NE-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814565 NR RRC details for NE-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814577 UE capabilities and band combinations for NE-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814667 Release of secondary cell group in NE-DC (36.331) Ericsson draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1814677 SCG measurement results and reporting for NE-DC (36.331) Ericsson draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1814696 Discussion on MCG/SCG failure handling for NE-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814698 Coordination between MN and SN in NE-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1815313 LTE RRC message transmission in NE-DC Samsung Electronics GmbH discussion R2-1812540

R2-1815375 control plane architecture for NE-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1815379 SCG failure in NE-DC Huawei, Hisilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

R2-1815380 SCG failure in NE-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1815427 RRM design consideration for NE-DC Samsung Electronics GmbH discussion R2-1812539

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Late

R2-1815376 inter-node message for NE-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core Late

10.5.4 NR-NR-DC

Stage 2 aspects specific to NE-DC
Including output of email discussion [103#48][NR late drop] RRC details for NR-DC [Ericsson]
Including output of email discussion [103#49][NR late drop] Capability coordination for NR-DC [Nokia]:

Email discussion #48 - RRC details

R2-1814575 Summary on email discussion [103#48] on RRC details for NR-DC Ericsson discussion Rel-15 NR_newRAT-Core

Agreements
1 A new field RadioBearerConfig2 is introduced in RRCReconfiguration as OCTET-STRING, to allow the configuration of bearers terminated in separate network nodes in NR-DC.

R2-1813992 RRC reconfiguration structure for NR-DC Intel Corporation discussion Rel-15 NR_newRAT-Core

- Intel clarify the proposal is the same as EN-DC which is to used full RRC message, and also the complete will be a full RRC message.
- Ericsson think for NR-DC it is a clumsy solution to have an NR RRC message in another NR RRC message and one complete message to the MN would be sufficient.
- ZTE agree the solution is a bit strange for NR-DC but agree that it can work with no extra complexity and just a few bits of overhead. Nokia agree with the ZTE comments and support the EN-DC approach.
- OPPO prefer to use a container to transfer the configuration.
- Huawei think we do not need 2 parallel RRC procedures at the UE side for one RAT.
- Samsung think for EN-DC approach we can just apply what we have and avoid extra discussions.
- Ericsson think the EN-DC approach is not so clean as it has both messages and IEs in containers.

=> Offline discussion to conclude (Offline discussion 82, Ericsson)

- Update from offline: It is proposed to support proposal B as a working assumption and confirm, or otherwise, at the next meeting. Also discussed radio bearer config in MCG branch that is not an octet string but handling would be the same as EN-DC in which either radio bearer config could use either key

Proposal A In NR-DC, the SCG configuration is carried from SN to MN as Information Element in a container, and from MN to UE as an Information Element in a container (can also be sent over SRB3)

Proposal B: Reuse the existing concept of full RRCReconfiguration message to carry SCG configuration for NR-DC (as in EN-DC).

Agreements
1: If SRB3 is configured, SN can provide measurement configuration directly to the UE over SRB3 and UE reports SN configured measurements to SN via SRB3 (as in EN-DC)
2: If SRB3 is not configured, SN can provide measurement configuration to the UE via MCG over SRB1 and UE reports SN configured measurements to SN via MCG over SRB1 (as in EN-DC)
3 Both radioBearerConfigs can be used to configure master or secondary key or algorithms

Working assumption:
1 Reuse the existing concept of full RRCReconfiguration message to carry SCG configuration for NR-DC (as in EN-DC).

Email discussion #49 - Capability coordination

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R2-1814391 Output of email discussion [103#49] [NR late drop] Capability coordination for NR-DC
Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

Agreements
1: For NGEN-DC and NE-DC, capability coordination does not require MN and SN to comprehend each other's UE configuration.
2a: For NR-DC, as a baseline is that capability coordination uses the same INMs as for EN-DC and can work without the MN and SN having to comprehend each other's UE configuration but not excluding that they can comprehend the others configuration.
FFS for NR-DC, that for capability coordination the MN may in addition include MCG configuration in the INM to the SN (but priority is to ensure that 2a mechanism is working)
3: For NGEN-DC and NE-DC, reuse the UE-MRDC-Capability.

✉ **[103bis#27][NR] NR-DC capabilities (Nokia)**
Discuss whether to include NR-DC band combination within the UE-MRDC-Capability IE or within the NR SA capabilities
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

Agreements
1 The late drop will be added to RRC specs in a backwards compatible manner

✉ **[103bis#10][NR/Late drop] 38.331 CR (Ericsson)**
Create draft 38.331 CR to introduce the late drop (single CR for all arch options). Also create a set of FFS points that need to be discussed online at the next meeting
Intended outcome: Draft CR and report to next meeting
Deadline: Thursday 2018-10-26

✉ **[103bis#11][NR/Late drop] 36.331 CR (Samsung)**
Create draft 38.331 CR to introduce the late drop (single CR for NGEN-DC and NE-DC ions). Also create a set of FFS points that need to be discussed online at the next meeting
Intended outcome: Draft CR and report to next meeting
Deadline: Thursday 2018-10-26

R2-1814117 UE capability in NR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1814116 Discussion on UE capability coordination in NR-NR DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1812307
R2-1814897 UE capability coordination for NR-DC ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core
R2-1815407 CR on 37.340 for UE capability coordination in NR-NR DC Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 F NR_newRAT-Core

Measurements

R2-1814114 Discussion of Measurement Aspects for NR-NR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1811714
R2-1813813 Discussions on measurement gap configuration and coordination in NR-DCQualcomm Incorporated discussion Rel-15 NR_newRAT-Core
R2-1813946 Discussion on FR2 gap configuration for NR-DC ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core
R2-1814486 NR-NR DC measurement configuration Intel Corporation discussion Rel-15 NR_newRAT-Core
R2-1814529 Consideration on Measurement configuration in NR-NR DC Nokia, Nokia Shanghai Bell discussion R2-1812714
R2-1814567 MN and SN measurement configuration in NR-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

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R2-1815404 CR on 38.331 for measurement configuration in NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

Other

R2-1814115 MCG SCG failure handling in NR-NR DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1811715

R2-1814118 Inter-node message for NR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814119 Details on RRCReconfiguration for NR-DC and NE-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814549 Inter-node RRC messages for NR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814550 Inter-node RRC messages for NR-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814555 SCG failure handling in case of NR-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814566 Bearer configuration for NR-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1814568 Handling of transaction identifiers in NR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1814569 Clarification of combined MN/SN RRC messages for NR-DC Ericsson CR Rel-15 37.340 15.3.0 0064 - B NR_newRAT-Core

R2-1814691 User plane integrity protection check failure handling in SCG for NR-NR DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1814692 UP IP check failure handling in SCG for NR-NR DC Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0068 - B NR_newRAT-Core

R2-1815319 QoS flow handling in NR-DC Samsung Electronics GmbH discussion

R2-1815403 CR on 37.340 for SCG failure handling in NR-DC Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 F NR_newRAT-Core

R2-1815405 CR on 38.331 for inter-node message in NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1815406 CR on 37.340 for RRC message handling in NR-NR DC Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 F NR_newRAT-Core

R2-1815408 CR on 38.331 to support UP IP check failure report Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1815409 CR on 38.331for SCG failure in NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

Late

R2-1814750 Defining baseline CR for NN DC Samsung Telecommunications discussion Rel-15 38.331 NR_newRAT-Core Late

11 Rel-16 NR Work Items

11.1 Study on Integrated Access and Backhaul for NR

(FS_NR_IAB; leading WG: RAN2; REL-16; started: Mar. 17; target: Dec. 18: SID: RP-181349)
Time budget: 2 TU
Documents in this agenda item will be handled in a break out session

11.1.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

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R2-1814069 TR 38.874 Qualcomm Inc (Rapporteur) draft TR Rel-15 38.874 0.5.0 FS_NR_IAB
=> The TR is agreed

11.1.2 User plane aspects

Including consideration of adaptation layer, multi-hop RLC ARQ, scheduler and QoS impacts
Including output of email discussion [103#53][IAB] E2E reliability in hop-by-hop RLC ARQ (LG)

RLC ARQ

R2-1815349 Summary of [103#53][IAB] E2E reliability in hop-by-hop RLC ARQ LG Electronics discussion NR_newRAT-Core
=> The TP is agreed

R2-1814362 Way forward on RLC termination Ericsson, AT&T, KDDI, LG, Kyocera, ZTE, Vivo, Intel discussion Rel-15 FS_NR_IAB
=> Noted

Unified design

R2-1815930 discussion UNIFIED DESIGN Rapporteur

Proposal 1: The IAB architecture should support many-to-one and one-to-one bearer mappings in a unified design since both mapping option provide benefits in different deployment and traffic scenarios.

Proposal 2: For many-to-one mapping, many UE-bearers are multiplexed to one BH RLC channel, while for one-to-one mapping, UE-bearer-specific QoS is supported on each BH link.

- Nokia thinks that we can achieve one-to-one without LCID space increase

Proposal 3: The unified design allows to mix many-to-one and one-to-one bearer mappings, where some UE-bearers are aggregated to a single RLC-channel while other UE-bearers each have their own RLC-channel.

- ZTE asks if we have any guidelines on how to do the mapping. Qualcomm thinks this applies only to N-to-1 mapping and implementation can take care of it.
- Nokia thinks this is too restrictive as we can map to logical channel and not RLC-channel

Proposal 4: The unified design supports hop-by-hop ARQ for RLC AM mode.

- Huawei thinks that end-to-to

Proposal 5: The unified design addresses LCID-space and LCG-space limitations to support fine-granular QoS for a sufficiently large number of bearers.

- Huawei thinks that we can change this to logical channel limitations and thinks we should move the LCG. Samsung explains that this is saying that we are addressing.

Proposal 6: The WI should aim for a deployable IAB system with both bearer mapping options for Rel.16

=> Noted

Agreements:
1. The IAB architecture should support many-to-one and one-to-one bearer mappings in a design since both mapping option provide benefits in different deployment and traffic scenarios.
2. The design should allow many-to-one and one-to-one bearer mappings to be used at the same time
3. The unified design supports hop-by-hop ARQ. End-to-end ARQ is not excluded for one-to-one mapping.
4. The unified design addresses LCID-space and LCG-space limitations to support fine-granular QoS for a sufficiently large number of bearers.
5. The WI should aim for a IAB system with both bearer mapping (N-to-1 and 1-to-1) options for Rel.16.

UL Scheduling

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R2-1814487 Control Plane Latency issues in IAB Intel Corporation discussion Rel-15 FS_NR_IAB
=> Moved from 11.1.3
=> Noted

R2-1814496 Text proposal for control plane latency issues in IAB Intel Corporation discussion Rel-15 FS_NR_IAB
=> Moved from 11.1.3

R2-1814365 Uplink Scheduling in IAB networks Ericsson discussion Rel-15 FS_NR_IAB
The BSR reporting framework for the MT part of the IAB node to be enhanced as compared to a rel-15 UE, by including the possibility to send a BSR even before data actually becomes available at the MT buffer.
- Intel assumes that this is dependent on the UE having a grant.

=> Noted

R2-1815192 Scheduling enhancement in IAB LG Electronics Inc. discussion FS_NR_IAB
=> Noted

R2-1815504 Pre-BSR Enabling Fast Scheduling Huawei Technologies France discussion Rel-15 R2-1812881
=> Noted

Discussion
- Ericsson thinks that we should capture at least that we should be able to send the BSR
- Sony asks how much of this needs to be specified

Agreements:
1. Capture in the TP the problem related to SR and BSR. The details of the content and triggers of SR and BSR are left for WI phase.

R2-1815873 TP on SR and BSR – Intel

✉ **[103bis#06][NR – IAB] TP on SR and BSR (Intel)**
Intended outcome: TP
Deadline: Thursday 2018-18-10

Adaptation layer (with or without IP)

R2-1815545 Adaptation layer design Futurewei Technologies discussion
=> Noted

R2-1814071 Comparison of Adapt with vs. without IP for IAB arch 1 Qualcomm Inc discussion
- Nokia points out that what is visible is the IP flow.
- Nokia doesn't agree with "Additional effort when upgrading IAB-nodes to IAB-donor-DUs"

=> Noted

✉ **[103bis#30][NR - IAB] Adaptation layer non-IP or IP (Ericsson)**
Intended outcome: Agree on TP for comparison between non-IP-based and IP-based Adapt for architecture 1a
Deadline: Thursday 2018-11-02

Discussion:
Downscoping of adaptation with or without IP
- KDDI thinks that we should identify what the problems are with each solution
- Ericsson would like to add some additional benefits to the comparison table
- ZTE thinks that we can keep the GTP header and then work on the other headers. Intel is concerned with the overhead. Nokia thinks the overhead is overestimated.
- Qualcomm explains that GTP header can still be there with the solution without IP.

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- AT&T and KDDI sees a complexity associated with integration of non-IP. Huawei doesn't see the issue.
- Nokia thinks we need take a closer look in more details, with the unified design in mind
- Huawei would like to see a paper from Ericsson explaining how security NDS would work. Qualcomm explains that NDS is known protocol and it should work.

R2-1814999 Adaptation layer in IAB MT Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB R2-1812303

Adaptation layer is always present for all the traffic exchanged between IAB nodes, i.e. for both traffic of Access UEs as well as for traffic terminated and originating in IAB node.

- Qualcomm indicates that we haven't even discussed MT UP support.

=> Noted

R2-1814073 UP support for IAB node in arch 1a Qualcomm Inc discussion

- Ericsson points out that GTP-U should be in Node 1.

=> Fix the figures with GTP-U the Node 1

- Ericsson thinks that Nokia's proposal can go in the section of advantages/disadvantages of TR

=> Include table with advantages/disadvantages and proposals from R2-1814999 in the TP.

=> Capture in the TP Protocol stack with adaptation layer and without adaptation layer

=> Noted

✉ **[103bis#31][NR - IAB] Adaptation layer in MT (Qualcomm)**
Intended outcome: TP
Deadline: Thursday 2018-11-02

R2-1813982 Analysis of options for Adaptation layer placement Intel Corporation discussion Rel-15 FS_NR_IAB

=> Noted

F1-U termination

R2-1814369 Way forward on F1-U termination Ericsson, AT&T, KDDI discussion Rel-15 FS_NR_IAB

Proposal 1. Further work on IAB for architecture group 1A should only consider solutions based on terminating GTP-U and NR user plane protocol in the IAB node.

- Qualcomm thinks that we can put some of the GTP-U can be included in the adapt header. Ericsson indicates that we also have the flow control.
- Qualcomm thinks that we should consider this with the unified design and consider user plane transport as well.
- Huawei and Intel thought this is RAN3. Qualcomm explains that this is F1-U and adaptation layer design.

Proposal 2 If the previous proposal is agreed, the remaining work on architecture group 1A should focus on alternatives d) and e) in figure 8.2.2 – 1 in TR 38.874.

- Qualcomm thinks that this is a WI level decision

=> Placement of the adaptation layer and details of the adaptation layer should be analysed in view of the unified design

=> Noted

✉ **[103bis#32][NR] Unified design (Qualcomm)**
Intended outcome: attempt to extract a set of limited aspects to help reaching consensus on UP transport of unified design. No new architecture options should be considered.
Deadline: Thursday 2018-11-02

Not treated

Flow control

R2-1815173 Further consideration on downlink data congestion handling LG Electronics Inc. discussion Rel-15 FS_NR_IAB

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R2-1814702 Discussion on flow control in IAB ZTE Corporation discussion FS_NR_IAB
R2-1815083 Queue Management vs Flow Control for Congestion Handling Sequans Communications discussion Rel-16 FS_NR_IAB
R2-1814593 Overview of flow control solutions for architecture 1 and 2 Samsung discussion Rel-15 FS_NR_IAB R2-1811056
=> moved from 11.1.3

R2-1814593 Overview of flow control solutions for architecture 1 and 2 Samsung discussion Rel-15 FS_NR_IAB R2-1811056
R2-1815513 Some considerations about flow control for IAB networks Huawei Technologies France discussion R2-1812711
R2-1813983 Downlink Flow Control and Congestion Control for IAB Intel Corporation discussion Rel-15 FS_NR_IAB
R2-1813710 consideration of flow control CATT discussion
R2-1814360 End to end flow control in multi-hop IAB networks Ericsson discussion Rel-15 FS_NR_IAB
R2-1814361 Hop by hop flow control in multi-hop IAB networks Ericsson discussion Rel-15 FS_NR_IAB
R2-1814378 E2E flow control based on ARQ mechanism PANASONIC R&D Center Germany discussion
R2-1815083 Queue Management vs Flow Control for Congestion Handling Sequans Communications discussion Rel-16 FS_NR_IAB
R2-1815509 Some considerations about congestion handling for IAB networks Huawei Technologies France discussion R2-1812711
R2-1815530 Discussion on flow control ITL discussion

Bearer mapping

R2-1814364 Way forward on Bearer Mapping Ericsson, AT&T, KDDI, LG, CATT, ZTE, Kyocera, Intel
R2-1814070 Comparison of IAB bearer mapping options Qualcomm Inc discussion Rel-15
R2-1813883 TP for TR 38.874 on L2 structures enabling one-to-one mapping between UE bearers and RLC BH channels Samsung R&D Institute UK discussion
R2-1813712 Bearer mapping and QoS Handling for IABCATT discussion
R2-1814723 Discussion on user plane bearer mapping and comparison ZTE Corporation discussion FS_NR_IAB
R2-1815516 Comparison between Bearer Mapping Solutions vivo discussion Rel-15 FS_NR_IAB
R2-1815520 IAB bearer mapping decisions Huawei Technologies France discussion Rel-15 R2-1812786

ARQ

R2-1815394 Summary of [103#53] E2E reliability in hop-by-hop RLC ARQ LG Electronics discussion NR_newRAT-Core Late
R2-1814072 Correction to ARQ comparison table for IAB arch 1Qualcomm Inc discussion
R2-1815176 Consideration on SN length for multi-hop RLC ARQ LG Electronics Inc. discussion Rel-15 FS_NR_IAB R2-1812520
R2-1815533 Analysis of impact of different ARQ modes on PDCP layer Huawei Technologies France discussion R2-1812854
R2-1815174 Consideration on disorder of data arriving at the PDCP layer in IAB LG Electronics Inc. discussion Rel-15 FS_NR_IAB
R2-1815054 Performance results for hop-by-hop vs. end-to-end RLC ARQ AT&T discussion
R2-1813711 lossless transmission for hbh ARQCATT discussion

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R2-1813868 Solutions for reliable IAB end-to-end transmission for the hop-by-hop RLC ARQ case Samsung R&D Institute UK discussion

R2-1814651 Consideration on Reliability Problem of Hop-by-hop RLC ARQ ZTE Corporation discussion FS_NR_IAB

R2-1814684 Comparison of hop by hop and end to end RLC ARQ ZTE Corporation discussion FS_NR_IAB

R2-1815538 Analysis of solutions for reliable transmission with HbH ARQ Futurewei Technologies discussion

R2-1815553 Further comparison between hop-by-hop ARQ and E2E ARQ Futurewei Technologies discussion

ARQ decision proposals

R2-1814362 Way forward on RLC termination Ericsson, AT&T, KDDI, LG, Kyocera, ZTE, Vivo, Intel discussion Rel-15 FS_NR_IAB

R2-1815055 E2E reliability in hop-by-hop RLC ARQ AT&T discussion

RLC – further enhancements

R2-1815132 Flexible hop-by-hop RLC ARQ LG Electronics Inc. discussion Rel-15 R2-1811865

R2-1814592 Overview of ARQ modes for NR relay networks Samsung discussion Rel-15 FS_NR_IAB R2-1811054

R2-1815547 Discussion on reassembly function for architecture 1a Futurewei Technologies discussion

Uplink Flow Control

R2-1815172 Further consideration on uplink data congestion handling LG Electronics Inc. discussion Rel-15 FS_NR_IAB

R2-1813984 Uplink Flow Control and Congestion Control for IAB Intel Corporation discussion Rel-15 FS_NR_IAB

MAC

R2-1814365 Uplink Scheduling in IAB networks Ericsson discussion Rel-15 FS_NR_IAB

R2-1815504 Pre-BSR Enabling Fast Scheduling Huawei Technologies France discussion Rel-15 R2-1812881

R2-1815192 Scheduling enhancement in IAB LG Electronics Inc. discussion FS_NR_IAB

R2-1814733 Resource allocation in IAB Sony discussion Rel-16 FS_NR_IAB R2-1811417

R2-1814363 Logical channel grouping for BSR in IAB networks Ericsson, AT&T, KDDI, LG, CATT, Kyocera, Intel discussion Rel-15 FS_NR_IAB

R2-1815230 Prioritization for IAB-node in random access procedure ASUSTeK discussion Rel-16 FS_NR_IAB R2-1812845

QoS

R2-1815518 QoS parameters for IAB QoS handling Huawei Technologies France discussion Rel-15 R2-1812786

L2 Architecture

R2-1814369 Way forward on F1-U termination Ericsson, AT&T, KDDI discussion Rel-15 FS_NR_IAB

R2-1815000 Comparison of Architecture 1a alternatives for user plane Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

R2-1815081 LTE Access Impact on UP architectures Sequans Communications discussion Rel-16 FS_NR_IAB

Latency Aware L2

R2-1814722 Latency analysis for IAB network ZTE Corporation discussion FS_NR_IAB

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Withdrawn

R2-1815183 Flow control for PDCP operation Sequans Communications discussion Rel-16 FS_NR_IAB R2-1812865 Late

R2-1815394 Summary of [103#53] E2E reliability in hop-by-hop RLC ARQ LG Electronics discussion NR_newRAT-Core Late

R2-1813866 Comparison between Bearer Mapping Solutions vivo discussion Rel-15 FS_NR_IAB Withdrawn

11.1.3 Control plane aspects

Including consideration of control plane protocol stack and control plane procedures (e.g. topology management, route management, etc)

Including output of email discussion [103#54][IAB] TP for Control Plane Transport (Ericsson)

R2-1814371 Summary of email discussion [103#54] on CP message transport in IAB Ericsson discussion Rel-15 FS_NR_IAB

- Huawei asks what the implications of Security: via NDS for Alt 4. Qualcomm thinks this is a WI phase issue.
- Samsung asks why the FFS is not there for alt.2.

=> The TP is agreed

R2-1814878 Comparison of Cplane protocol stack alternatives for Architecture 1a Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

- Ericsson asks why it is important to put adaptation layer. Nokia explains that adaptation layer placements has a few impacts.
- Samsung thinks that the heading should be QoS granularity

=> The TP is agreed

=> Noted

R2-1814368 Way forward on F1-AP termiantion Ericsson, AT&T, KDDI, Qualcomm discussion Rel-15 FS_NR_IAB

Proposal 1 In architecture option 1, all F1-AP signaling (including F1-AP message carrying RRC signaling) should be terminated in the access IAB node.

Proposal 2 Only 1A CP architecture variants 2 and 4 to be considered for further study.

- Samsung has a contribution to propose some enhancements to allow F1-AP to be encapsulated in RRC

=> Noted

R2-1815656 TP to capture downselection agreement Qualcomm

=> Fix editorial “mapping options”

=> The TP is agreed with change above

Agreements

=> Only 1A CP architecture variants 2 and 4 to be considered for further study

SRBs

R2-1814728 Discussion on bearer mapping for control plane signalling ZTE Corporation discussion FS_NR_IAB

Proposal 1: The IAB control plane signaling may be relayed via the following two schemes: 1) reusing legacy SRB; 2) defining dedicated SRB.

- Qualcomm asks if we would need a new SRB. ZTE thinks we can or reuse an existing SRB.
- Ericsson ask if this apply to specific alternatives.
- Samsung thinks this can a WI phase issue.

Proposal 2: When reusing legacy SRB, it is suggested to consider SRB1 or SRB2 of intermediate IAB node for the control plane signaling relaying.

=> This can be left to WI phase

=> Noted

R2-1814756 Enhancement to CP Alt. 2 for Architecture 1a Samsung pCR Rel-15 38.874 0.4.0 FS_NR_IAB
=> This can be left to WI phase
=> Add a Note that a RRC container may be required to carry F1-AP to meet the current understanding that RRC is transported over RRC.
=> Noted

R2-1815660 TP to capture note related to F1-AP Samsung
=> add ",": For CP Alternative 2, in order to carry F1-AP over an SRB, due to conventional RRC operation, RRC encapsulation of F1-AP may be required.
=> The TP is agreed with the change above

R2-1814757 Control plane data mapping for Architecture 1a Samsung pCR Rel-15 38.874 0.4.0 FS_NR_IAB
- Huawei ask if we allow other types of grouping.
- Ericsson consider option 2 as the best option.
- Samsung would prefer to not downselect
- Nokia doesn't think mapping many SRBs to a RLC channel
- Huawei considered that we can use the adaptation layer IDs similar to UP to identify the SRBs, combination of UE ID and SRB ID should be enough. Ericsson explains that we didn't agree that we would have a UE ID in the adaptation layer and that depends on the GTP-U decision. Qualcomm thinks that this needs more discussion.
- Huawei thinks this options are not exhaustive
- Qualcomm thinks that next meeting we should discuss the headers for SRBs

=> Capture in the TR the different options for SRB mappings and the impact
=> Noted

✉ **[103bis#05][NR] TP on SRB mapping (Samsung)**
Intended outcome: TP on SRB mapping options
Deadline: Thursday 2018-18-10

Not treated

R2-1815544 SRB Types for Control Plane Alternative 2 Huawei Technologies France discussion R2-1812819

R2-1815423 Supporting Prioritization of F1-AP message LG Electronics discussion Rel-15 FS_NR_IAB R2-1812862

Control Transport

R2-1814371 Summary of email discussion [103#54] on CP message transport in IAB Ericsson discussion Rel-15 FS_NR_IAB

R2-1814878 Comparison of Cplane protocol stack alternatives for Architecture 1a Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

R2-1814756 Enhancement to CP Alt. 2 for Architecture 1a Samsung pCR Rel-15 38.874 0.4.0 FS_NR_IAB

R2-1814370 Usage of SCTP over the IAB backhaul interface Ericsson discussion Rel-15 FS_NR_IAB

R2-1815551 Comparisons of C-plane alternatives Huawei Technologies France discussion R2-1812889

R2-1814724 Comparison of control plane alternatives of architecture 1a ZTE Corporation discussion FS_NR_IAB

R2-1814368 Way forward on F1-AP termination Ericsson, AT&T, KDDI, Qualcomm discussion Rel-15 FS_NR_IAB

Control plane transport – bearer mapping and prioritization

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R2-1814758 F1AP mapping options for IAB Samsung pCR Rel-15 38.874 0.4.0 FS_NR_IAB
R2-1814757 Control plane data mapping for Architecture 1a Samsung pCR Rel-15 38.874 0.4.0 FS_NR_IAB
R2-1814728 Discussion on bearer mapping for control plane signalling ZTE Corporation discussion FS_NR_IAB
R2-1815423 Supporting Prioritization of F1-AP message LG Electronics discussion Rel-15 FS_NR_IAB R2-1812862
R2-1815544 SRB Types for Control Plane Alternative 2 Huawei Technologies France discussion R2-1812819

Topology – Uu BH handling

R2-1814730 Discussion on IAB node discovery and selection ZTE Corporation discussion FS_NR_IAB
R2-1814703 Discussion on backhaul bearer setup in IAB network ZTE Corporation discussion FS_NR_IAB
R2-1814279 The mobility in IAB Potevio discussion Rel-15
R2-1814483 How to indicate which cell/IAB node support child IAB access Lenovo, Motorola Mobility discussion Rel-15 FS_NR_IAB
R2-1814819 Backhual link selection for IAB access Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IAB
R2-1814838 Consideration of RLF recovery in IAB Kyocera discussion
R2-1814997 IAB node discovery and monitoring Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB
R2-1815449 Consideration on cell reselection of IAB LG Electronics Inc. discussion Rel-15 FS_NR_IAB R2-1812796
R2-1815517 Selection of Parent for IAB-Node vivo discussion Rel-15 FS_NR_IAB R2-1811779

Topology – Relay handling

Moved from

R2-1815506 Route selection method for architecture 1a Huawei Technologies France discussion Rel-15 R2-1812892
R2-1814881 IAB Routing for Architecture 2a Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB R2-1812346
R2-1814734 Route management in IAB Sony discussion Rel-16 FS_NR_IAB R2-1811418
R2-1814821 Analysis on topology in IAB system Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IAB
R2-1814530 Setup procedure for adaptation layer Ericsson discussion Rel-15 FS_NR_IAB
R2-1815235 Consideration on routing table update in IAB ASUSTeK discussion Rel-16 FS_NR_IAB
R2-1815348 Discussion for routing operation of IAB topologies LG Electronics discussion NR_newRAT-Core R2-1812682
R2-1815135 Topology management for IAB KT Corp. discussion
R2-1814731 Consideration on Routing in IAB ZTE Corporation discussion FS_NR_IAB
R2-1815532 Support of Multiple connectivity for IAB nodes Futurewei Technologies discussion

Topology – Performance

R2-1814998 Service interruption time minimization for backhaul links Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB
R2-1815112 Service Interruption Minimization during Topology Adaptation ITRI discussion FS_NR_IAB R2-1812708

Performance

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R2-1814487 Control Plane Latency issues in IAB Intel Corporation discussion Rel-15 FS_NR_IAB
R2-1814496 Text proposal for control plane latency issues in IAB Intel Corporation discussion Rel-15 FS_NR_IAB

Other

R2-1814366 Supporting slicing in IAB networks Ericsson discussion Rel-15 FS_NR_IAB
R2-1814404 Discussion on UE performing cell selection/reselection for IAB node FibeHome discussion
R2-1814407 Consideration on IAB startup procedure FiberHome discussion
R2-1814735 Open issues related to IAB power on procedure Sony discussion Rel-16 FS_NR_IAB R2-1811419
R2-1815366 Consideration on backhaul link enhancement for IAB LG Electronics France discussion Rel-15
R2-1815437 Access Control for IAB node LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1812827
R2-1815505 Distributed RRC functions for IAB Huawei Technologies France discussion Rel-15 R2-1812830

Withdrawn

R2-1815161 Handling of the RLF on wireless backhaul link LG Electronics Inc. discussion FS_NR_IAB R2-1810529 Withdrawn
R2-1813709 Selection of Parent for IAB-Node vivo discussion Rel-15 FS_NR_IAB R2-1811779 Withdrawn

11.1.4 Other

R2-1814880 IAB Architecture comparison Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB
R2-1815345 Considerations on remaining “FFS” in the TR 38.874 KDDI Corporation discussion

11.2 Study on NR-based Access to Unlicensed Spectrum

(FS_NR_unlic; leading WG: RAN1; REL-16; started: Mar. 17; target: Jun. 18: SID RP-181339)
Time budget: 1 TU
Documents in this agenda item will be handled in a break out session

11.2.1 User plane

11.2.1.2 MAC

MAC impacts other than RACH

Scheduling Request

R2-1814293 On the impact of LBT on RA and SR procedures Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic

LG asks if LBT indication is needed. Interdigital thinks we shouldn’t start RAR in this case.

For P2, Interdigital says not increasing the counter is RAN1 recommendation. Nokia and Ericsson think this will create problems. Samsung asks what to do for Idle.

Agreements:
1. Power ramping is not applied when preamble is not transmitted due to LBT failure.
2. Discuss at next meeting to decide on whether *PREAMBLE_TRANSMISSION_COUNTER* should always be increased

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independently on the outcome of LBT

R2-1813723 Consideration on SR enhancement for NR-U ZTE Corporation discussion
R2-1815032 Scheduling request for NR-U Ericsson discussion FS_NR_unlic
R2-1813585 SR transmission and procedure for NR-U OPPO discussion
R2-1814009 SR and BSR in NR-U InterDigital discussion Rel-15 FS_NR_unlic R2-1811459
R2-1814264 Discussion on SR procedure vivo discussion R2-1811790
R2-1814331 SR in NR-U PANASONIC R&D Center Germany discussion
R2-1814862 Discussion on SR for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1815412 Discussion on SR transmission for NR-U Google Inc. discussion Rel-16 FS_NR_unlic R2-1812292

Configured Grant

R2-1815029 On Autonomous UL Transmissions for NR-U Ericsson discussion FS_NR_unlic
R2-1814059 Configured Grant enhancement Intel Corporation discussion Rel-15 FS_NR_unlic
R2-1814858 Transmission with configured grant for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1813588 Configured uplink transmission for NR-U OPPO discussion
R2-1813718 Configured Grants for NR Unlicensed Qualcomm Incorporated discussion R2-1811699
R2-1813875 Autonomous Uplink Transmission in NR-U Spreadtrum Communications discussion Rel-16
R2-1813966 Configured grant enhancements for NR-U MediaTek Inc. discussion Rel-16 FS_NR_unlic R2-1812340
R2-1813743 considerations on configured grant for NR-U ZTE Corporation discussion
R2-1815284 Autonomous uplink transmission for NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1812765
R2-1814265 Discussion on the configurations of configured grant vivo discussion R2-1811793

Enhanced Dynamic Scheduling

R2-1815133 UL scheduling enhancement in NR-U LG Electronics Inc. discussion Rel-15 R2-1811866
R2-1815273 UL Scheduling with Multiple TTIs for PUSCH in NR-U CMCC discussion

Other

R2-1815030 BSR/PHR report for NR-U Ericsson discussion FS_NR_unlic
R2-1814863 Discussion on general MAC aspects for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1815147 Considerations on Beam Failure Detection for NR-U LG Electronics Inc. discussion FS_NR_unlic R2-1812867

DRX

R2-1813590 DRX operation for NR-U OPPO discussion R2-1811068
R2-1813641 DRX for NR-U Samsung discussion Rel-15 FS_NR_unlic
R2-1814270 Discussion on single or muliple DRX configuration vivo discussion
R2-1814022 DRX in NR-U InterDigital discussion Rel-16 FS_NR_unlic
R2-1814327 DRX Procedure for NR-U PANASONIC R&D Center Germany discussion R2-1811920
R2-1814857 Discussion on DRX for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1815027 DRX enhancement for NR-U Ericsson discussion FS_NR_unlic
R2-1815189 DRX for unlicensed operation LG Electronics Inc. discussion FS_NR_unlic

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R2-1815274 DRX process in unlicensed spectrum CMCC discussion
R2-1814290 Discussion on DRX for NR-U Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic R2-1812310

BWP

R2-1813742 considerations on BWP for NR-U ZTE Corporation discussion
R2-1813589 BWP switching due to LBT OPPO discussion R2-1811066
R2-1814271 Discussion on the support of multiple active BWP vivo discussion
R2-1814859 Discussion on BWP operation for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1815150 Considerations on BWP operation for NR-U LG Electronics Inc. discussion FS_NR_unlic R2-1812831
R2-1815251 Considerations on BWP switching and multi-activation for NR-U CMCC discussion
R2-1815309 BWP selection based on HARQ process ID in NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1812789

Withdrawn

R2-1814023 Configured Grants in NR-U InterDigital discussion Rel-16 FS_NR_unlic Withdrawn
R2-1814504 Discussion on BWPs for NR-U Google Inc. discussion Rel-16 FS_NR_unlic Withdrawn

11.2.1.1 RACH

Including RACH 4-step, RACH 2-step
Including output of email discussion [103#55][NR-U] 2-step RACH Model and Initial Information Contents (Qualcomm)

RACH General and 4-step

R2-1813715 TP for RACH in NR-U Qualcomm Incorporated discussion
=> Change " Only CFRA on SCells and both on SpCell".
=> Clarify 2-step RACH is different than CFRA
=> Predetermined HARQ ID for msg3, not msg2.
=> Remove "when…" at the last part.
Revised in R2-1815889 (Offline discussion 103, Qualcomm)

R2-1814291 On the selection of PRACH resources for transmission of Msg1/MsgA in NR-U RA procedure Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic
R2-1814262 Enhance RACH with Additional Transmission Opportunities vivo discussion
R2-1815026 Discussions on RACH enhancement for NR-U Ericsson discussion FS_NR_unlic
R2-1815448 Issue in RA procedure due to LBT failure Fujitsu discussion Rel-15 FS_NR_unlic
R2-1814281 RACH design for NR-U Qualcomm Incorporated discussion
R2-1813586 Enhancements of 4-steps RACH in NR-U OPPO discussion
R2-1814836 Diversity in RACH transmissions Lenovo, Motorola Mobility discussion FS_NR_unlic R2-1812210
R2-1813987 Random access procedure for NR-u Intel Corporation discussion Rel-16 FS_NR_unlic
R2-1815028 Handling of RA counters and timers in NR-U Ericsson discussion FS_NR_unlic
R2-1814007 Random access in NR-U InterDigital discussion Rel-15 FS_NR_unlic
R2-1813874 Random Access Procedure in NR-U Spreadtrum Communications discussion Rel-16
R2-1813964 Enhancements to the RACH procedure for NR-U MediaTek Inc. discussion Rel-16 FS_NR_unlic R2-1812343
R2-1814438 Modifications to RACH procedure due to LBT Motorola Mobility, Lenovo discussion R2-1811416

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R2-1814866 Four-step RACH procedure for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1815190 Fast preamble transmission in NR-U LG Electronics Inc. discussion FS_NR_unlic
R2-1815111 RAR window extension for NR-U ITRI discussion FS_NR_unlic
R2-1815153 Enhanced RACH proceudre for NR-U LG Electronics Inc. discussion FS_NR_unlic
R2-1815194 Transmission counting in MAC with LBT LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1812665
R2-1815257 Consideration of RACH procedure in NR-U system CMCC discussion
R2-1815365 Impact on RACH related counters and windows for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1815447 On CFRA in NR-U Fujitsu discussion Rel-15 FS_NR_unlic R2-1812914
R2-1815502 RACH carrier selection for NR-U ITL discussion
R2-1813741 considerations on 4-step RACH procedure for NR-U ZTE Corporation discussion
R2-1813745 considerations on RAR window size for NR-U ZTE Corporation discussion
R2-1814580 RACH Enhancement in NR-U Apple Inc. discussion Rel-16 FS_NR_unlic

RACH 2-step

R2-1813690 Report of Email Discussion [103#55][NR-U] 2-step RACH Model and Initial Information Contents (Qualcomm) Qualcomm Incorporated report Late

HW doesn't think msgA may not have preamble-like and this is up to RAN1. ZTE agrees with the proposal. Sony also supports preamble-like. HW formally objects to "preamble-like".

Agreements:
1. From RAN2 perspective, the first message in 2-step RACH is a signal to detect the UE and a payload while the second message is for contention resolution for CBRA with a possible payload.
2. As a baseline, all the triggers for 4-step RACH are also applicable to 2-step RACH with the following caveats: 1-) SI request, BFR cases need further study. 2-) How timing advance and grants are obtained for first message should be taken into account.
3. The first message for 2-step RACH will at least include the equivalent information which is transmitted in msg3 for 4-step RACH. RAN1 input will be needed for the payload size.
4. CFRA for 2-step RACH is supported.
5. Contention resolution in 2-step RACH will be done by including a UE identifier in the first message which is echoed in the second message. The type of UE identifier(s) is FFS.
6. Fall-back from 2-step RACH to 4-step RACH is supported. Doing this after msgA will need support from physical layer perspective.
7. Additional opportunities for RACH transmissions, e.g. in time or frequency domain, should be supported for 2-step RACH.
8. Assuming 2-step RACH is used for initial access, the parameters for 2-step RACH and a grant for msgA will be broadcasted.

R2-1814032 Msg1 payload contents for 2-step RACH ZTE Corporation, Sanechips discussion Rel-15
R2-1814034 Msg2 payload contents for 2-step RACH ZTE Corporation, Sanechips discussion Rel-15
R2-1814033 draft LS to RAN1 on payload size for Msg1 using 2-step RACH ZTE Corporation, Sanechips other Rel-15
R2-1814287 Network control of 2-step random access procedure Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic
R2-1813988 2-Step RA for licensed and unlicensed operatioon Intel Corporation discussion Rel-16 FS_NR_unlic

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R2-1814263 RAN2 impacts of 2-step RACH vivo discussion R2-1811791
R2-1814008 2-step RA procedure InterDigital discussion Rel-15 FS_NR_unlic
R2-1815157 2-Step CBRA procedure for NR-U LG Electronics Inc. discussion FS_NR_unlic
R2-1813587 Two steps RACH procedure for NR-U OPPO discussion R2-1811067
R2-1813965 Further considerations on 2-step RACH MediaTek Inc. discussion Rel-16 FS_NR_unlic
R2-1814736 Considerations on initial access procedures for NR unlicensed operations Sony discussion Rel-16 FS_NR_unlic
R2-1814865 Two-step RACH procedure for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

11.2.1.3 Other

User plane impacts other than MAC

LBT and CAPC

R2-1814292 On Channel Access Priority Classes in NR-U Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic R2-1812323
R2-1813675 CAPC for data transmission in NR-U MediaTek Inc. discussion Rel-16 FS_NR_unlic
R2-1814269 Discussion on the service based channel access priority vivo discussion
R2-1813680 LBT and CAPC for Random Access in NR-U MediaTek Inc. discussion
R2-1813639 LBT types for NR-U Samsung discussion Rel-15 FS_NR_unlic
R2-1813679 LBT and CAPC for Uplink Control Channels in NR-U MediaTek Inc. discussion Rel-16

Other

R2-1813746 considerations on PDCP duplication and data split for NR-U ZTE Corporation discussion Late
R2-1815191 Multi-path packet duplication for NR-U LG Electronics Inc. discussion FS_NR_unlic
R2-1814545 QoS Flow based Data Split between Licensed and Unlicensed Spectrum Apple Inc. discussion FS_NR_unlic
R2-1815031 Discussions on wideband operation and bandwidth part Ericsson discussion FS_NR_unlic
R2-1815252 NR-U impacts on DRB mapping CMCC discussion R2-1811504

11.2.2 Control plane

R2-1813681 Mobility in NR-U Stand Alone (SA) MediaTek Inc. discussion

11.2.2.1 Inactive and Idle mode

Impacts to 38.304: mobility, paging in idle and inactive modes, system information

General

R2-1813716 TP for Idle/Inactive mode in NR-U Qualcomm Incorporated discussion
=>Endorsed to be captured in the TR

System Information

R2-1815331 Discussion on SI for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

Agreements:
1. RAN2 should focus on scheduling of SIB at this stage and the detailed design of MIB and SIB1 are pending in RAN1.
2. More opportunities for SI transmission in time domain may be needed to relieve LBT impact.

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R2-1813692 Mapping between SI Messages and SI Windows in NR-U Samsung Electronics Co., Ltd discussion Rel-15 FS_NR_unlic

HW asks if the SI periodicities should be same. Samsung clarifies they don't need to be. Ericsson says that overlapping windows could solve the same problem. ZTE and Nokia clarify that this will have impact on UE support of HARQ processes and combining.
=> Noted

R2-1815048 Extended, overlapping SI-windows in NR-U Ericsson discussion Rel-16
R2-1815050 How to handle failure to transmit SI update notification in NR-U Ericsson discussion Rel-16
R2-1813872 SI design in NR-U Spreadtrum Communications discussion Rel-15 R2-1811406
R2-1813691 SI Message Transmission/Reception in NR-U Samsung Electronics Co., Ltd discussion Rel-15 FS_NR_unlic
R2-1815049 Indication of duration of broadcast of requested on-demand SI in NR-U Ericsson discussion Rel-16
R2-1815047 Dedicated RRC signaling for request and delivery of on-demand SI in NR-U Ericsson discussion Rel-16
R2-1813591 System information handling and paging operation in NR-U OPPO discussion R2-1811069

Paging

R2-1815330 Discussion on paging for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

Apple asks if the NW will be aware of NR-U capability. Charter says that this can't be assumed.

> Agreements:
> 1. CN-initiated and RAN-initiated paging should be supported for standalone NR-U operation as NR licensed cell. This assumes Inactive mode is supported in NR-U.

R2-1815339 Paging enhancements in NR Unlicensed band LG Electronics Inc. discussion FS_NR_unlic
R2-1815046 Paging in NR-U Ericsson discussion Rel-16
R2-1814006 Paging procedure in NR-U InterDigital discussion Rel-15 FS_NR_unlic
R2-1813724 Discussion on paging on NR-U ZTE Corporation discussion
R2-1814060 Paging for NR-U Intel Corporation discussion Rel-15 FS_NR_unlic
R2-1814127 Considerations on NR-U Paging in Unlicensed Spectrum Charter Communications discussion Rel-15 38.889 FS_NR_unlic
R2-1814266 Paging enhancements for NR-U vivo discussion R2-1811792
R2-1814544 Considerations on NR-U Paging Apple Inc. discussion Rel-16 FS_NR_unlic
R2-1815247 Discussion on paging on NR-U CMCC discussion

Cell reselection

R2-1813732 Discussion on Cell reselection on NR-U ZTE Corporation discussion

- Apple thinks a unified design between Connected and Idle may not be needed since the NW makes the decision in Connected mode. HW agrees. LG thinks channel occupancy measurement may cause long delays and may not be a proper metric. Interdigital supports the proposal and doesn't think the delay is critical. Nokia agrees with LG. HW says selection and reselection can be separated. Ericsson sees benefit of the proposal as it helps for load balancing. Intel agrees with LG.

  => Noted

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R2-1814856 Discussion on mobility in idle and inactive mode for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1814010 Idle/INACTIVE mobility for NR-U InterDigital discussion Rel-16 FS_NR_unlic
R2-1813774 Cell re-selection considerations Gemalto N.V. discussion R2-1811251
R2-1813775 Discussion on additional conditions for camping on non-best cell Gemalto N.V. discussion
R2-1814286 Conditions on camping on a non-best cell Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic
R2-1813739 The impact of multiple operators on cell selection for NR-U ZTE Corporation discussion
R2-1814840 Reselection considerations for NR-U Kyocera discussion
R2-1815051 Idle inactive mode mobility in NR-U Ericsson discussion Rel-16
R2-1815438 Cell Reselection in NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1812828
R2-1813592 Discussion on Cell Selection and System Information Issues for NR-U OPPO discussion Late
R2-1815351 Impact on RACH related counters and windows for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core Withdrawn
R2-1814860 Discussion on paging and SI for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core Withdrawn

11.2.2.2 Connected mode and RRC

General Mobility Aspects: How to find and identify NR-U target cell(s).
Impact to 38.331: RLM/RLF, mobility in connected mode (note that mobility solutions to be covered by the NR Mobility Enh WI are not to be discussed).
Including output of email discussion [103#56][NR-U] Connected Mode Mobility (Interdigital)

General Mobility Aspects, Connected, Idle Inactive

R2-1813681 Mobility in NR-U Stand Alone (SA) MediaTek Inc. discussion
R2-1814312 Idle/Inactive mode issues for NR-U Qualcomm Incorporated discussion
R2-1814542 Considerations on UE Mobility in NR-U Apple Inc. discussion Rel-16 FS_NR_unlic
R2-1815396 Camping on non-best cell LG Electronics Inc. discussion Rel-15 FS_NR_unlic
R2-1815283 Introducing issues for NR-U Idle mode operation Samsung discussion FS_NR_unlic

Measurements and RRM

R2-1814288 RRM and Connect Mode mobility Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic R2-1812308
R2-1814864 Discussion on measurements for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1813734 Measurement in Connected Mode for NR-U ZTE Corporation discussion
R2-1815053 RRM framework in NR-U Ericsson discussion Rel-16
R2-1815165 Connected mode RRM measurement framework in NR-U Samsung discussion
R2-1814013 RRM measurements for NR-U InterDigital discussion Rel-16 FS_NR_unlic
R2-1815397 Channel occupancy measurement enhancements for NR-U LG Electronics Inc. discussion Rel-15 FS_NR_unlic

Connected Mode Mobility - General

R2-1814024 Summary of [103#56][NR-U] Connected Mode Mobility (InterDigital) InterDigital discussion Rel-16 FS_NR_unlic Late

Samsung asks why intra-cell is not included. LG supports not to include. Nokia think prioritization of scenarios.

=> Change to “reduced RS (e.g. SSB)”

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=> Change “further optimization of handover to eLTE” is lower priority.
=> Discuss “NR-U needs to develop…”
=> The rest of TP is endorsed as baseline.
TP revised in R2-1815890 (Offline discussion 101, Interdigital)

R2-1814025 TP to TR38.889 v0.1.0 for Connected Mode Mobility InterDigital discussion Rel-16 FS_NR_unlic Late
R2-1813717 TP for Mobility and RLM in NR-U Qualcomm Incorporated discussion

Panasonic thinks the accuracy could be different. Oppo says that we don’t need to mention “coordination”. MTK wants to keep it. Apple agrees with MTK.

=> Change to “Handling of missing measurements are expected to be captured at physical layer specifications”
=> Change to “ In unlicensed spectrum, multiple PLMNs from different operators can share the same channel and coordination between different operators may not happen”.

TP revised in R2-1815891 (Offline discussion 102, Qualcomm)

R2-1813640 Group BWP switching in unlicensed band Samsung discussion Rel-15 FS_NR_unlic
R2-1814289 RRC connected mode mobility for NR-U Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic R2-1812326
R2-1814841 Connected mobility considerations for NR-U Kyocera discussion
R2-1814861 Discussion on mobility in connected mode for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1813726 Consideration on mobility enhancement for NR-U ZTE Corporation discussion

RLM/RLF

R2-1815399 Impact of LBT failure on RLM LG Electronics Inc. discussion Rel-15 FS_NR_unlic
R2-1813736 Simulation and Evaluation for RLM RLF on NR-U ZTE Corporation discussion
R2-1814267 Evaluation of the RLM for NR-U vivo discussion R2-1811788
R2-1814268 Text proposals for the evaluation resultsof the RLM for NR-U vivo discussion R2-1811789
R2-1813989 RLM/RLF for NR-u Intel Corporation discussion Rel-16 FS_NR_unlic
R2-1814011 RLM/RLF for NR-U InterDigital discussion Rel-16 FS_NR_unlic
R2-1814294 RLM/RLF measurement on NR-U Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic R2-1812309
R2-1814855 Discussion on RLF for NR-U Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1815052 RLM RLF in NR-U Ericsson discussion Rel-16
R2-1815398 Consideration on cell quality derivation on unlicensed frequency LG Electronics Inc. discussion Rel-15 FS_NR_unlic

CP general

R2-1815311 On indicating LBT failure for NR-U Samsung discussion FS_NR_unlic
R2-1813729 Consideration on SRB enhancement for NR-U ZTE Corporation discussion
R2-1814012 Mobility for NR-U InterDigital discussion Rel-16 FS_NR_unlic Late

11.2.2.3 Other

E.g. system topics for Stand Alone, if any.

R2-1814541 Discussion on NR-U Cell Access Solution Apple Inc. discussion Rel-16 FS_NR_unlic

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R2-1815167 Issues on Synchronization Signal Tx and Rx in NR-U Samsung discussion R2-1811799

11.2.3 Other

Including general topics covering both CP and UP, organisational

R2-1813688 Draft LS on requesting study of system level aspects of NR-U Qualcomm Incorporated LS out To:SA2 Cc:RAN1, RAN3, RAN, SA

Nokia supports sending the LS. MTK asks if there was enough progress in RAN for SA2 to work on. Charter explains that backhaul aspects are related to NR-U SA and it is up to SA2 how to proceed. Ericsson agrees with Charter. Intel thinks we can just mention the scenarios.

=> Add “paging” to the bullet list.
=> LS is endorsed in R2-1815892

R2-1813842 Considerations on Architectural Aspects of NR-U Charter Communications discussion Rel-15 38.889 FS_NR_unlic

R2-1815168 Wideband operations for NR-U Samsung discussion R2-1811800

IDC

R2-1815253 In-device coexistence for NR-U CMCC discussion R2-1811503

R2-1815166 Discussion on IDC indication in NR-U Samsung discussion

R2-1815228 Discussion on IDC problems in NR-U ASUSTeK discussion Rel-16 FS_NR_unlic R2-1812843

11.3 Study on Self Evaluation towards IMT-2020 submission

(FS_5G_eval; leading WG: RAN; REL-16; started: Mar. 17; target: Jun. 19: SID: RP-171451)
This agenda item is for submission of any contributions related to the RAN2 aspects of the self-evaluation for the IMT-2020 submission.

R2-1814909 IMT-2020 self-evalution: CP latency Ericsson discussion Rel-15 FS_5G_eval

11.4 Study on NR V2X

(FS_NR_V2X; leading WG: RAN1; REL-16; started: Jun 18; target; Mar 19; SID: RP-182111)
Time budget: 1 TU
Documents in this agenda item will be handled in a break out session

11.4.1 General

Including incoming LSs, work plan, rapporteur inputs, skeleton TR

R2-1813512 LS on support of unicast, groupcast, and broadcast (R1-1809907; contact: LGE) RAN1 LS in Rel-16 FS_NR_V2X To:RAN2, SA2

[ZTE]: What “session establishment” does really means? [LG]: From RAN2 point of view, to have same understanding on configurations among the UEs [ZTE]: For groupcast also? [Huawei]: Session is not visible to AS layer and it is upper layer concept [Samsung]: Share the view with Huawei [CATT]: We need further study the need of feedback for groupcast, if needed we also need session establishment even for groupcast

⇨ Noted

R2-1815439 NR V2X study plan LG Electronics Inc. discussion Rel-16 FS_NR_V2X

⇨ Noted

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11.4.2 Sidelink design

11.4.2.1 Scenarios

Including scenarios to be considered in SI

R2-1813933 Scenarios for NR V2X SL communication Huawei, HiSilicon discussion Rel-16 FS_NR_V2X

- Proposal 1: RAN2 to study and prioritize the Uu control/configuration of NR SL and LTE SL in SA scenarios, i.e. gNB and ng-eNB, as proposed in Figure 1 and 2.
- [LG]: "eNB controls LTE and NR SL and gNB controls LTE and NR" should be considered [Huawei]: There is no prioritization for the eNB connected to EPC. [ZTE]: LTE to control NR SL shouldn't be prioritized. [Intel]: Support the proposal [Vivo]: Early to deprioritze certain scenario [Ericsson]: Support the proposal, cross-RAT resource allocation should be more like next step, proposal is baseline. [OPPO]: Why core network type is important? [Huawei]: QoS model is one of factors for differentation [Convida, Nokia, Samsung]: Support the proposal

=> Agreed (FFS on the support of mode1 for the cross-RAT control).

- Proposal 2: RAN2 to discuss whether to support NR sidelink based on MR-DC scenarios, i.e. EN-DC and MR-DC with 5GC, as in Figure 3 and 4. If RAN2 agree to support them, the study on MR-DC scenario(s) should be deprioritized, compared with SA scenarios.
- [ZTE]: What about NE-DC? [Huawei]: Yes, it is also included in Figure 4 [LG]: If MN is NR and it controls NR SL, even MRDC should be supported

=> Capture the figures into TR, but will be deprioritized compared to SA scenarios

Proposal 3: RAN2 to discuss whether to support the LTE Uu control of NR SL based on LTE connectivity to EPC (as in Figure 5).

Agreements
1: RAN2 to study and prioritize the Uu control/configuration of NR SL and LTE SL in SA scenarios, i.e. gNB and ng-eNB, as proposed in Figure 1 and 2 (FFS on the support of mode1 for the cross-RAT control).
2: Capture the figure 3 and 4 into TR but will be deprioritized compared to SA scenarios.

⇨ [Email Discussion #1] To capture the above agreed scnearios (also including all agreements made this meeting) into TR (Huawei)

R2-1813563 Discussion on target scenarios for NR-V2X OPPO discussion Rel-16 FS_NR_V2X

R2-1813920 NR V2X scenario for PDCP duplication supporting vivo discussion

R2-1814055 On overall sidelink design principles for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X

R2-1815056 Multi-Connectivity scenarios for Vehicle to Everything (V2X) AT&T discussion

R2-1815149 Sidelink Scenarios for NR V2X Samsung Electronics GmbH discussion Rel-16

R2-1815440 Basic Scenarios and Overall Steps for NR Sidelink design LG Electronics Inc. discussion Rel-16 FS_NR_V2X

11.4.2.2 Sidelink broadcast

Including L2/3 protocol impacts (other than resource allocation aspect) for SL broadcast

R2-1815441 NR Sidelink design based on LTE Sidelink LG Electronics Inc. discussion Rel-16 FS_NR_V2X

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[Huawei, Qualcomm]: we should exclude protocol stack [Ericsson]: Early to decide LTE protocol stack is baseline.

⇨ Email discussion to see which LTE mechanism/feature to be inherited to NR SL broadcast

⇨ [Email Discussion #2] UP aspects (LG)

⇨ [Email Discussion #3] CP aspects (Huawei)

R2-1813567	Discussion on L23 for NR-V2X	OPPO	discussion	Rel-16	FS_NR_V2X
R2-1813725	Mode 2 resource allocation	CATT	discussion		
R2-1814064	SL broadcast design for NR V2X	Intel Corporation	discussion	Rel-16	FS_NR_V2X
R2-1814245	Discussion on L2 protocol design for NR sidelink	Huawei, HiSilicon	discussion	Rel-16	FS_NR_V2X
R2-1814246	Discussion on L3 CP related aspects for NR sidelink	Huawei, HiSilicon	discussion	Rel-16	FS_NR_V2X
R2-1815151	sidelink SPS for NR V2X	Samsung Electronics GmbH	discussion	Rel-16	
R2-1815525	RLC Functions for NR Sidelink	Samsung	discussion	Rel-16	FS_NR_V2X
R2-1815526	PDCP Functions for NR Sidelink	Samsung	discussion	Rel-16	FS_NR_V2X

11.4.2.3 Sidelink unicast and groupcast

Including L2/3 protocol impacts (other than resource allocation aspect) for SL unicast and groupcast

R2-1813932 Support of unicast, groupcast and broadcast in NR Sidelink Huawei, HiSilicon discussion Rel-16 FS_NR_V2X

Proposal 1: NR sidelink should support all of unicast, groupcast and broadcast, from the perspective of both service requirements and use cases for NR V2X.

Proposal 2: Unicast, groupcast, and broadcast should be supported for all of the in-coverage, out-of-coverage, and partial coverage scenarios.

⇨ Agreed and will be captured in the scenario section into TR

Proposal 3: RAN2 should support simultaneous unicast, groupcast and broadcast communications within the same vehicle.

[OPPO]: “simultaneous” means in the same TTI? [Huawei]: No need of same TTI [Nokia]: What should be RAN2 impacts? [LG]: Supports the proposal.

⇨ Noted

Proposal 4: RAN2 to study the potential L2 solutions for the QoS support of unicast and groupcast in NR sidelink (including HARQ feedback, ARQ (if RLC AM is supported), PDCP packet duplication, configured grants, etc.)

[OPPO]: Grant free? [Huawei]: Configured grant type 1 [Vivo]: There are more requirements than reliability, latency and bit rate

⇨ Agreed

Proposal 4a: RAN2 to study potential L2 enchantments for broadcast in NR sidelink on top of LTE-based V2X sidelink, in order to support related use cases with higher QoS requirements for NR V2X.

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Proposal 5: From RAN2 perspective, the differentiation of unicast, groupcast and broadcast is needed in RAN higher layers.

[MediaTek]: Who will decide unicast, groupcast and broadcast? [LG, Ericsson]: Upper layer

⇨ RAN2 WA: Uppler layer will give the information if it's unicast, groupcast or broadcast and we will ask SA2 if they can provide it.

Proposal 6: For groupcast, destination ID for a specific group and for unicast, destination ID for the target UE need to be visible in Layer 2 respectively. Source UE id should be also visible to Layer 2.

⇨ Agreed and will be also captured in the LS to SA2.

Proposal 7: RAN2 to clarify that the "session" used in RAN1 LS refers to a link connection established/maintained between the two UEs for unicast, and a group of concerned UEs involved in groupcast.

[Chair]: Do we need AS level connection/RB establishment between UEs?

⇨ [Email Discussion #4]: To discuss for SL unicast/groupcast, what AS-level information is required to exchange among UEs and/or gNB, and whether we need AS-level connection/RB establishment/configuration or management procedure (LG)

Proposal 8: For unicast/groupcast in NR sidelink, discovery procedure and related messages are up to upper layers.

[Samsung, LG, Convida]: Support the proposal

⇨ Agreed and will be captured in the LS to SA2

Proposal 9: For unicast in NR sidelink, one-to-one connection establishment procedure and related messages are left to upper layers.

Proposal 10: Send an LS to SA2 on the RAN2 agreements made for groupcast and unicast in NR sidelink, including the following information:

Agreements

1: Unicast, groupcast, and broadcast should be supported for all of the in-coverage, out-of-coverage, and partial coverage scenarios.

2: RAN2 to study the potential L2 solutions for the QoS support of unicast and groupcast in NR sidelink (including HARQ feedback, ARQ (if RLC AM is supported), PDCP packet duplication, configured grants, etc.).

3: RAN2 Working Assumption: Uppler layer will give the information if it's unicast, groupcast or broadcast (We will ask SA2 if they can provide it).

4: For groupcast, destination ID for a specific group and for unicast, destination ID for the target UE need to be visible in Layer 2 respectively. Source UE id should be also visible to Layer 2.

5: For unicast/groupcast in NR sidelink, discovery procedure and related messages are up to upper layers.

⇨ [Offline Disc#714, comeback to Thursday]: LS to SA2 to inform the above agreements (Huawei, R2-1815683)

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R2-1815683 [Draft] LS to SA2 on unicast, groupcast and broadcast in NR sidelink Huawei Rel-16 FS_NR_V2X To: SA2 Cc: RAN1

⇨ Add “s” into “need” in the second bullet.

⇨ Put “For unicast/groupcast in NR sidelink, discovery procedure and related messages are up to upper layers.” outside of the bullets and put “Also RAN2 agreed” in front of the sentence.

⇨ Correct “above” into “following” in the action.

⇨ Approved with the above changes in R2-1815692.

R2-1814464 Discussion on Connection-based versus Connectionless NR Sidelink Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X

R2-1815329 Draft LS to SA2 on unicast, groupcast and broadcast designs in NR sidelink Huawei LS out Rel-16 FS_NR_V2X To:SA2

R2-1813565 Discussion on sidelink unicast, groupcast and broadcast for NR-V2X OPPO discussion Rel-16 FS_NR_V2X

R2-1813727 NR sidelink protocol stack and functions CATT discussion

R2-1813731 Discovery Procedure and Connection Setup Procedure in NR Sidelink CATT discussion

R2-1813879 Overview of sidelink unicast and groupcast support for NR V2X Spreadtrum Communications discussion Rel-16 Late

R2-1813921 Sidelink unicast in NR vivo discussion

R2-1813922 Consideration on PC5 L2 protocol design vivo discussion

R2-1813923 Consideration on PC5 L3 protocol design vivo discussion

R2-1814015 Support for Unicast and Groupcast in NR V2X InterDigital discussion Rel-16 FS_NR_V2X

R2-1814020 Draft LS on Support for Unicast and Groupcast in NR V2X InterDigital discussion Rel-16 FS_NR_V2X

R2-1814056 Connection management aspects for NR V2X SL Intel Corporation discussion Rel-16 FS_NR_V2X

R2-1814065 Considerations on unicast and groupcast support over NR SL Intel Corporation discussion Rel-16 FS_NR_V2X

R2-1814174 Support of unicast and groupcast in NR sidelink ZTE discussion Rel-16 FS_NR_V2X

R2-1814259 Discussion on Sidelink unicast and groupcast ITRI discussion

R2-1814503 Connection establishment for Unicast in NR V2X Lenovo, Motorola Mobility discussion Rel-16 FS_NR_V2X

R2-1814929 Discussion on Groupcast for NR V2X Qualcomm Incorporated discussion Rel-16 FS_NR_V2X

R2-1815036 Mode-1 Implications for Supporting SL HARQ CSI feedbacks Ericsson discussion FS_NR_V2X

R2-1815039 On Sidelink Discovery Ericsson discussion FS_NR_V2X

R2-1815041 On the Support of HARQ/CSI feedbacks Over Sidelink Ericsson discussion FS_NR_V2X

R2-1815152 sidelink unicast and groupcast for NR V2X Samsung Electronics GmbH discussion Rel-16

R2-1815424 V2X sidelink discovery LG Electronics discussion Rel-16 FS_NR_V2X

R2-1815425 V2X session establishment LG Electronics discussion Rel-16 FS_NR_V2X

R2-1815531 Support of unicast and groupcast for NR V2X ITL discussion

11.4.2.4 Resource allocation/configuration

Including SL resource allocation mechanism

R2-1815045 Support of Unicast/Groupcast/Broadcast Sidelink V2X Communications Ericsson discussion FS_NR_V2X\
R2-1813566 Discussion on Inter-RAT Control for NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1813924 Discussion on resource allocation mechanism for NR sidelink vivo discussion
R2-1815199 Study sidelink resource allocation mechanism Huawei, HiSilicon discussion Rel-16
R2-1813564 Discussion on resource allocation for NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1813673 UE-assisted resource allocation for NR V2X MediaTek Inc. discussion Rel-16 FS_NR_V2X
R2-1813728 Uu-based sidelink resource allocation CATT discussion
R2-1813735 platooning resource allocation CATT discussion
R2-1813811 Scheduling and resource allocation principle MediaTek Inc. discussion
R2-1813928 NR V2X Resource Allocation Aspects Fraunhofer HHI, Fraunhofer IIS discussion
R2-1814016 Resource Allocation Features to Support NR V2X Requirements InterDigital discussion Rel-16 FS_NR_V2X
R2-1814017 Resource Allocation in Support of Unicast and Groupcast InterDigital discussion Rel-16 FS_NR_V2X
R2-1814066 Sidelink resource allocation for unicast vs broadcast operation Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1814168 Initial consideration on NR V2X resource allocation and configuration ZTE discussion Rel-16 FS_NR_V2X
R2-1814176 Discussion on resource pool configuration in NR V2X ZTE discussion Rel-16 FS_NR_V2X
R2-1814276 Discussion on NR zone design for sidelink resource allocation considering vehicle speed Hyundai Motors discussion Rel-16 FS_NR_V2X
R2-1814304 Considerations for Sidelink Resource Pool Design for NR V2X Samsung Electronics discussion Rel-16 FS_NR_V2X
R2-1814844 Sidelink resource allocation in NR Beijing Xiaomi Software Tech discussion
R2-1814954 Enhancements of LTE Uu and NR Uu to control NR sidelink Qualcomm Incorporated discussion FS_NR_V2X
R2-1814956 Enhancements of NR Uu to control LTE sidelink Qualcomm Incorporated discussion FS_NR_V2X
R2-1815033 On Latency of mode-1 Sidelink Scheduling Ericsson discussion FS_NR_V2X
R2-1815035 gNB-scheduled Resource Allocation for Sidelink Ericsson discussion FS_NR_V2X
R2-1815044 Resource allocation for Enhanced Mobility Ericsson discussion FS_NR_V2X
R2-1815057 Resource allocation mechanism for NR sidelink AT&T discussion
R2-1815234 Resource configuration and allocation for NR sidelink ASUSTeK discussion Rel-16 FS_NR_V2X
R2-1815430 Direct and Indirect resource allocation LG Electronics Inc. discussion Rel-16 FS_NR_V2X
R2-1815510 Considerations on resource pool in NR Sidelink for V2X ITL discussion Rel-16 FS_NR_V2X

11.4.2.5 Others

R2-1813733 MAC PDU format in PC5 CATT discussion
R2-1815040 On the need of bandwidth parts for NR V2X Ericsson discussion FS_NR_V2X
R2-1815198 NR SL Protocol stack overview Huawei, HiSilicon discussion Rel-16

11.4.3 Uu enhancements

Including analysis/evaluation on the need of Uu enhancement, identification of enhancements if any

R2-1815557 Evaluation of Uu interface for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1813936 Uu enhancements for NR V2X Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
⇨ [Email Discussion #5]: To capture e2e delay analysis based on R2-1815557 and R2-1813936 (Intel)

R2-1813730 Consideration on Uu MAC due to V2X transmission CATT discussion
R2-1813737 Uu V2X evaluation and potential enhancements CATT discussion
R2-1813925 Latency reduction for mode 1 and mode 2 vivo discussion
R2-1814171 Discussion on LTE and NR Un based resource allocation and configuration ZTE discussion Rel-16 FS_NR_V2X
R2-1814305 Sidelink Resource Control between LTE V2X and NR V2X Samsung Electronics discussion Rel-16 FS_NR_V2X
R2-1814943 Uu Enhancements for NR V2X Interdigital discussion Rel-16
R2-1815015 Evaluation of Uu interface for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X
=> Revised in R2-1815557
R2-1815034 Analysis of NR Uu features for eV2X Ericsson discussion FS_NR_V2X
R2-1815154 Uu enhancements for NR V2X Samsung Electronics GmbH discussion Rel-16
R2-1815200 The enhancement of Uu to control inter RAT V2X sidelink Huawei, HiSilicon discussion Rel-16
R2-1815258 Uu enhancements of NR V2X CMCC discussion
R2-1815442 NR Uu enhancements for V2X communication LG Electronics Inc. discussion Rel-16 FS_NR_V2X

11.4.4 RAT/Interface selection

Including RAT/interface selection mechanism

R2-1814170 Consideration on RAT selection in NR V2X ZTE discussion Rel-16 FS_NR_V2X
[Samsung]: RAT selection is only for LTE/NR and/or Uu/PC5? [ZTE]: Both

⇨ [Email Discussion #6]: How we perform RAT selection for SL (e.g. based on extension/reuse of TX profile), how we perform Uu/SL interface selection and discuss what AS aspects need to be considered if agreed that we need to consider AS-level (ZTE)

R2-1813568 Discussion on RAT and interface selection ofr NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1813740 Discussion on RAT/Interface selection CATT discussion
R2-1813934 Discussion on RAT/interface selection Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1814019 RAT Selection for NR V2X InterDigital discussion Rel-16 FS_NR_V2X
R2-1814057 On RAT selection for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1815038 On Inter-RAT Network Control of Sidelink Ericsson discussion FS_NR_V2X
R2-1815042 Path and RAT selection Ericsson discussion FS_NR_V2X
R2-1815088 RAT selection for NR V2X sidelink communication Qualcomm Incorporated discussion FS_NR_V2X
R2-1815155 RAT selection for NR V2X sidelink Samsung Electronics GmbH discussion Rel-16
R2-1815426 PC5 RAT selection LG Electronics discussion Rel-16 FS_NR_V2X
R2-1814837 Clarification on RAN2 study scope Lenovo, Motorola Mobility discussion FS_NR_V2X

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11.4.5 QoS management

Including solutions for QoS management of the radio interface

R2-1814465 Various approaches to SL QoS support in NR V2X Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X
R2-1815043 QoS principles Ericsson discussion FS_NR_V2X
R2-1813738 QoS Management for NR V2X CATT discussion
R2-1813880 Considerations on NR V2X QoS management Spreadtrum Communications discussion Rel-16
R2-1813926 Communication range for NR V2X vivo discussion
R2-1813929 QoS Management for NR V2X Fraunhofer HHI, Fraunhofer IIS discussion
R2-1813935 QoS support for NR V2X Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1814018 QoS Management for NR V2X InterDigital discussion Rel-16 FS_NR_V2X
R2-1814058 QoS considerations over SL for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1814175 Discussion on QoS management for NR V2X ZTE discussion Rel-16 FS_NR_V2X
R2-1814261 Discussion QoS index measurement for NR V2X ITRI discussion
R2-1814466 Mobility challenges for NR V2X platooning Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X
R2-1814755 Discussion on QoS management for NR V2X Lenovo, Motorola Mobility discussion Rel-16 FS_NR_V2X
R2-1814930 Discussion on QoS design for NR PC5 communication Qualcomm Incorporated discussion Rel-16 FS_NR_V2X
R2-1815037 NR Sidelink QoS handling at Access Stratum Ericsson discussion FS_NR_V2X
R2-1815158 QoS management for NR V2X Samsung Electronics GmbH discussion Rel-16

11.4.6 Others

R2-1813927 Discussion on RAN1 LS on support of unicast, groupcast, and broadcast vivo discussion
R2-1814172 In-device coexistence between NR V2X and LTE V2X ZTE discussion FS_NR_V2X
R2-1814306 Considerations for Support Mobility for NR V2X Samsung Electronics discussion Rel-16 FS_NR_V2X
R2-1814416 Coexistence of LTE Sidelink V2X and NR Sidelink V2X Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X
R2-1814759 Synchronization issues in NR V2X Lenovo, Motorola Mobility discussion Rel-16 FS_NR_V2X
R2-1815127 Discussion on Support of Vulnerable Road User Samsung Electronics discussion

11.5 Study in UE radio capability signalling

(FS_RACS_RAN; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 19; SID: RP-181459)
Time budget: 0.5 TU

LS with RAN2 in CC

R2-1813504 Reply LS on maximum size of UE Radio Capabilities and maximum Information Element size on network interfaces (C4-186641; contact: Vodafone) CT4 LS in Rel-16 FS_RACS
To:SA2 Cc:RAN2, RAN3, CT1, CT3
- CATT wonder if the GTPv2 limitation to 50000bytes will have impact on RAN2 design.
- Ericsson think this is above the RAN2 limit so we can focus on addressing the RAN2 limit.

=> Noted

R2-1813527 Reply LS on maximum size of UE Radio Capabilities and maximum Information Element size on network interfaces (R3-185104; contact: Intel) RAN3 LS in Rel-16 FS_RACS
To:SA2 Cc:RAN2, CT1, CT3, CT4

=> Noted

Skeleton TR

R2-1813777 Skeleton TR for Study on optimizations of UE radio capability signalling MediaTek Inc. discussion FS_RACS_RAN
=> Endorsed

11.5.1 Radio interface signalling optimisations based on using UE capability identity

Including consideration of the interaction of the proposed optimisations with the Rel-15 mechanisms

R2-1814629 On scope of new SI on optimizations of UE radio capability signalling – NR/E-UTRA Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815571

R2-1815571 On scope of new SI on optimizations of UE radio capability signalling – NR/E-UTRA Ericsson discussion Rel-15 NR_newRAT-Core

Agreements
1 In order to focus the work, RAN2 study that addresses UE capability ID based solutions should first consider solutions applicable for 5GS, if CN is involved (and can later consider whether they might be applicable for EPS)
2 To make the solutions for UE capability signalling optimization that are based on segmentation/compression mechanisms over the air CN agnostic.
3 For solutions that are based on UE capability IDs, RAN2 should first consider the case where NR is the master node. As a second step, solutions for NR should then be adapted to work in the LTE is master node.
4 For mechanisms that relate to segmentation/compression, the scope of the SI should first consider the case of transmission of UE capabilities over NR RRC. As a second step, solutions for NR should then be adapted to work in the LTE RRC.

=> Draft LS to SA2 in R2-1815985 to respond to SA2's questions based on the agreements above (Offline discussion 83, MediaTek)

R2-1815985 [DRAFT] Reply LS on optimisation of UE capability signalling MediaTek LS out Rel-16 FS_RACS_RAN To:SA2 Cc:SA, RAN, RAN3, CT1, CT4
=> Updates to capture the editorial corrections to the agreements
=> Approved in R2-1816018

R2-1814190 Solutions and procedures for UE capability ID signalling vivo discussion Rel-16 FS_RACS_RAN
=> Noted

R2-1814240 UE radio capability reporting based on UE-capability-ID Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1815429 Solution for UE capability signalling optimisation using UE Capability ID NTT DOCOMO, INC. discussion Rel-16 FS_RACS_RAN

Agreements
1 RAN2 will leave SA2 to progress the discussion on the allocation of the UE capability ID. RAN2 will focus on signalling aspects.
2 Key aspects to be considered by RAN2 are:
i/ Whether the UE capability ID is carried by NAS or RRC
ii/ Whether the UE capability ID is available to the RAN, and hence the mapping from UE capability ID to capability set is known in the RAN
iii/ Whether the mapping from UE capability ID to capability set is stored in the CN
3 Additional aspects to be consider by RAN2 are:
i/ Partial capability retrieval (based on bands, etc)

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ii/ To which capability containers the UE capability ID relates
iii/ Relationship to NAS initiated changes of UE capability

✉ **[103bis#12][NR] UE cap ID signalling options (MediaTek)**
Create TP to capture the signalling options available considering the key aspects agreed above.
Intended outcome: Draft TP to be submitted to next meeting
Deadline: Thursday 2018-10-26

R2-1813670 Solutions for handling of large capabilities MediaTek Inc. discussion Rel-16 FS_RACS_RAN
R2-1813809 Discussion on RAN2 Aspects about UE Capability Enhancements OPPO discussion Rel-15
R2-1814189 Considerations on UE capability ID vivo discussion Rel-16 FS_RACS_RAN
R2-1814499 Optimization on UE Capability Procedures OPPO discussion
R2-1814604 Signalling procedure for UE capability ID report HUAWEI TECH. GmbH discussion Rel-16 FS_RACS_RAN
R2-1814630 Assumptions and key issues on Study on optimisations on UE radio capability signalling – NR/E-UTRA Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815572
R2-1815572 Assumptions and key issues on Study on optimisations on UE radio capability signalling – NR/E-UTRA Ericsson discussion Rel-15 NR_newRAT-Core
R2-1814631 UE capability ID based solutions for signaling optimization Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815573
R2-1815573 UE capability ID based solutions for signaling optimization Ericsson discussion Rel-15 NR_newRAT-Core
R2-1814927 Hashed UE capability information as unique UE capability identity Deutsche Telekom, SONY discussion Rel-16
R2-1814965 Discussion on ID based UE capability transfer Intel Corporation discussion Rel-16 NR_newRAT-Core
R2-1815061 Optimization on UE radio capability signaling Apple discussion
R2-1815500 NR UE Capability Size Reduction LG Electronics Inc. discussion Rel-16 FS_RACS_RAN
R2-1814393 Initial working assumptions on the “UE Capability ID” Nokia, Nokia Shanghai Bell discussion Rel-16 FS_RACS_RAN

Withdrawn

R2-1814633 LS to SA2 on requirements for EPS/5GS and E-UTRA/NR Ericsson LS out Rel-15 NR_newRAT-Core To:SA2 Withdrawn
R2-1814634 Security aspects of ID-based solutions Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

11.5.2 Radio interface signalling optimisations based on other means

Including optimisations based on e.g. compression, segmentation and including consideration of the interaction of the proposed optimisations with the Rel-15 mechanisms

R2-1814392 Control Plane signalling compression using deflate Nokia, Nokia Shanghai Bell discussion Rel-16 FS_RACS_RAN

✉ **[103bis#28][NR] UE cap compression TP (Nokia)**
Create TP to capture the compression proposal.
Intended outcome: Draft TP submitted to next meeting
Deadline: Thursday 2018-11-01

R2-1814632 Segmentation-based solutions for UE capability signaling optimization Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815574

R2-1815574 Segmentation-based solutions for UE capability signaling optimization Ericsson discussion Rel-15 NR_newRAT-Core

Agreements
1 The SI will not study increasing the PDCP SDU size for the purpose of supporting larger RRC messages.

✉ **[103bis#29][NR/UE cap SI] UE cap segmentation TP (Ericsson)**
Create TP to capture the segmentation proposal and options (RRC, etc).
Intended outcome: Draft TP submitted to next meeting
Deadline: Thursday 2018-11-01

R2-1814191 Considerations on RRC segmentation vivo discussion Rel-16 FS_RACS_RAN

R2-1814383 UE capability size reduction through generic compression MediaTek Inc. discussion Rel-16 FS_RACS_RAN

R2-1814482 Primary Consideration on UE Capability Compression CATT discussion Rel-16 FS_RACS_RAN

R2-1814603 Segmentation of UE Radio Capability information HUAWEI TECH. GmbH discussion Rel-16 FS_RACS_RAN

11.5.3 Other

Any other aspects

R2-1813671 Analysis of UE capability size MediaTek Inc. discussion Rel-16 FS_RACS_RAN

R2-1814602 Estimation of UE radio capabilities size HUAWEI TECH. GmbH discussion Rel-16 FS_RACS_RAN

R2-1815980 Text Proposal for UE Radio Capability Signaling Size Analysis Huawei, HiSilicon, MediaTek Inc. discussion Rel-16 FS_RACS_RAN

11.6 Study on NR non-terrestrial network

(FS_NR_NTN_solutions; leading WG: RAN3; REL-16; started: Jun 18; target; Jun 19; SID: RP-181598)
Time budget: 0.5 TU
Documents in this agenda item will be handled in a break out session

Rapporteur input

R2-1813603 Proposed RAN2 work plan on NTN Thales, Nomor Research GmbH Work Plan Rel-16
- Ericsson thinks it should be key issues for both delay and mobility
=> Noted

R2-1813610 RAN2 Skeleton Report on NTN Thales, Nomor Research GmbH pCR Rel-16 38.821 0.1.0 FS_NR_NTN_solutions
=> rename section “Requirements and key issues”
=> The TP is agreed with the change above in R2-1815650

✉ **[103bis#33][NR – NTN] (Thales)**
Intended outcome: capture agreements from this meeting into a TP
Deadline: Thursday 2018-02-11

Requirements/Scenarios

R2-1814932 Scenarios for NTN NR REL-16 SI Ericsson discussion Rel-16 FS_NR_NTN_solutions
Proposal 1 RAN2 to discuss whether if it is possible to assume earth fixed beams for LEO case with transparent satellite

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=> RAN2 assumes fixed beams for LEO case with transparent satellite

Proposal 2 RAN2 to discuss whether RAN2 should consider prioritisation of the scenarios when considering the delay aspect.

- Thales thinks that it would be interesting to consider the worst case scenario for each case and focus on those.

Proposal 3 RAN2 to discuss whether RAN2 should consider prioritisation of the scenarios when considering the mobility aspect.

=> The rapporteur will create a table with the worst case scenarios to be considered for requirements

=> Noted

R2-1814877 Considerations on NTN deployment scenarios Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_NTN_solutions

Proposal 1: For LEO based NTN access, adopt generic scenarios with circular orbit geometry using Walker Delta pattern constellations.

- Ericsson doesn't think we can decide on behalf of RAN1
- Ericsson asks whether we would have any type of mobility simulations. Nokia thinks that for mobility we do need a reference pattern.
- Thales doesn't like the idea of defining a reference constellations but we can just use it as an example, like global star. Nokia could agree to that
- Ericsson thinks that a reference scenario is only important for simulation where we are comparing results.

=> Noted

R2-1814816 Impacts of propagation delay in TDD mode Ericsson discussion Rel-16 FS_NR_NTN_solutions

Proposal 1 There is no TDD-specific timing requirements and solutions on layer 2 due to propagation delay.

Proposal 2 Down-prioritize TDD in this study item.

- Thales is happy to down-prioitize TDD in this study item, even though in some LEO case it could be considered. Huawei also agrees to analyse FDD first

Proposal 3 Capture these observations into the TR.

=> Noted

Agreements:
1. Down-prioritize TDD in this study item.
2. There is no TDD-specific timing requirements and solutions on layer 2 due to propagation delay.

Not treated

R2-1813613 RAN2 requirements on NTN Nomor Research GmbH, Thales Work Plan Rel-16

R2-1813890 Considerations on architecture and deployment scenarios of NTN Huawei, HiSilicon discussion Rel-16 FS_NR_NTN_solutions

R2-1814934 Requirements for NTN NR Ericsson discussion Rel-16 FS_NR_NTN_solutions

User plane impacts

R2-1814888 Impacts of propagation delay on user plane Ericsson discussion Rel-16 FS_NR_NTN_solutions

=> Noted

R2-1813615 Considerations on MAC Control Loops and Timings in Non-Terrestrial Networks (NTN) Nomor Research GmbH, Thales discussion Rel-16 38.821

Proposal 1: Set PreambleReceivedTargetPower to the maximum defined parameter value and do not use power ramp-up in case of a satellite-link.

- Huawei thinks that power ramping and TA is not RAN2 scope

=> Noted

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R2-1813892 Consideration on the impact of high propagation delay in NTN Huawei, HiSilicon
discussion Rel-16 FS_NR_NTN_solutions

Proposal 2: RAN2 should study RAR window, the ARQ buffer size, the maximum SN value, reassemble timer length, and retransmission mechanism for long RTT.

Proposal 3: RAN2 should study possible handover issues due to high handover delay, e.g., handover failure

- Thales thinks that the trigger events don't have to be based only on measurements but also using the knowledge of the satellite location, EPHEMERIS.
- LG has a different understanding and UE has to measure for mobility purposes.

=> Noted

UP Impacts to study
1. DRX
2. HARQ
3. Random access response
4. RLC/PDCP reordering (e.g. timers and SN space)
5. SDAP => no impact

Not treated

R2-1813616 Considerations on RLC Control Loops and Timings in Non-Terrestrial Networks (NTN)
Nomor Research GmbH, Thales discussion Rel-16 38.821

R2-1813617 Considerations on PDCP Control Loops and Timings in Non-Terrestrial Networks (NTN)
Nomor Research GmbH, Thales discussion Rel-16 38.821

Mobility

R2-1814931 Spot beam versus cell in NTN NR Ericsson discussion Rel-16
FS_NR_NTN_solutions

Proposal 1 Clarify in TR 38.821 that the term beam in TR 38.821 is "satellite beam" or "spot beam" when it refers to satellite spot beam.

- Thales clarifies that NTN cell will be the footprint of satellite beam and spot beam = satellite beam

=> Rapporteur will clarify in the TR

Proposal 2 RAN2 to discuss the relation between satellite spot beam and NR cell where the RS coverage may be formed of SSB beams.

Proposal 3 Consider SSB beams as a priority in both cell vs spot beam discussion as well as in mobility discussion.

Proposal 4 RAN2 to conclude that spot beams and satellites are not visible from UE perspective.

Proposal 5 RAN2 to study further which cell vs spotbeam scenarios are relevant for this SI.

- Thales considers that from the satellite perspective option a is preferable.
- LG would like to avoid multiple satellites create a single cell. Thales explains that for LEO earth fixed beam, then you would have two satellite beams to cover the same cell.

Proposal 6 RAN2 to discuss whether there is RAN2 impact if cells are formed from same or different satellites.

✉ **[103bis#34][NR - NTN] (Ericsson)**
Intended outcome:
1. Definition of cell
2. Clarify scenarios (e.g. whether multiple beams cover the same cell) and List of possible options on SSB modelling
3. What does the UE see (e.g. does the UE need to differentiate between spot beams or just rely on SSBs)

Deadline: Thursday 2018-02-11

R2-1813891 Consideration on the impact of rapid motion of satellite in NTN Huawei, HiSilicon
discussion Rel-16 FS_NR_NTN_solutions

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Proposal 1: RAN2 should discuss how to reduce the measurement overhead for UEs and resource and data forwarding overhead.
- LG doesn't think that mobility is that frequent, when compared to existing cases like V2X
- Huawei explains that it is due to satellites moving very fast
- LG thinks that we also to consider the delay aspects with higher priority than frequency of handover
- Ericsson thinks that this is too early to conclude this

Propose 2: RAN2 should discuss how to solve issues induced by frequent TAU.
- ZTE thinks that this all depends on how we do TA planning
- Ericsson ask how TA works in satellite systems. Thales explains that the equivalent of TA is earth fixed and this option should be adopted. Huawei ask how to handle earth fixed TAs when two satellites cover the same cell.
- Thales also explains that the RF quality of the beam seen by a UE can be equivalent from satellites coming from different countries so we need to consider this, so best beam selection may not work

=> Noted

Impacts to study for CP
1. Mobility
2. TA management and update

Not treated

R2-1814740 Consideration on RAN2 impacts of NTN support in NR Sony discussion Rel-16 FS_NR_NTN_solutions

R2-1814933 Mobility aspects for NTN NR Ericsson discussion Rel-16 FS_NR_NTN_solutions

R2-1815255 Issues of UE mobility state estimation in NTN CMCC discussion

R2-1813881 Overview of NTN impacts to RAN2 Spreadtrum Communications discussion Rel-16

R2-1813947 Discussion on the mobility for Non Terrestrial Network ZTE Corporation, Sanechips discussion Rel-16 FS_NR_NTN_solutions

R2-1813948 TP on mobility aspect for Non Terrestrial Network ZTE Corporation, Sanechips discussion Rel-16 FS_NR_NTN_solutions

R2-1815254 Impact of NTN cell movement CMCC discussion

R2-1815256 Utilization of beam footprint information CMCC discussion

R2-1815499 Signalling Delay in NTN LG Electronics Inc. discussion Rel-16 FS_NR_NTN_solutions

Control plane

R2-1814889 Impacts of propagation delay on control plane Ericsson discussion Rel-16 FS_NR_NTN_solutions

R2-1815387 Considerations on RRC connection handling in NTN LG Electronics Deutschland discussion Rel-16 FS_NR_NTN_solutions

R2-1814890 Overview on impacts of propagation delay Ericsson discussion Rel-16 FS_NR_NTN_solutions

Paging and tracking area

R2-1814031 Challenge on the paging performance in NTN ZTE Corporation, Sanechips discussion Rel-16

R2-1815336 Discussion on the Issue for paging in NTN LG Electronics Inc. discussion FS_NR_NTN_solutions

R2-1814243 Discussion on Tracking Area Management in NTN ZTE Corporation, Sanechips discussion Rel-16 FS_NR_NTN_solutions

R2-1814244 Discussion on Network Identities in NTN ZTE Corporation, Sanechips discussion Rel-16 FS_NR_NTN_solutions

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11.7 Study on NR Industrial Internet of Things (IoT)

(FS_ NR_IIOT; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 19; SID: RP-182090)
Time budget: 0.5 TU
Documents in this agenda item will be handled in a break out session

R2-1813554 LS on TSN integration in the 5G System (S2-189051; contact: Qualcomm) SA2 LS in Rel-16 FS_Vertical_LAN To:RAN1, RAN2, RAN3 Cc:RAN, SA1
=> Noted.

The document below has been moved from 11.7.2

R2-1814991 Work Plan for NR Industrial IoT SI Nokia, Nokia Shanghai Bell Work Plan Rel-16 FS_NR_IIOT
=> No online time spent on intra-UE prioritization (email discussion may be agreed for next meeting)
=> Work plan is agreed

The document below has been moved from 11.7.2

R2-1814990 TR 38.825 skeleton Nokia, Nokia Shanghai Bell draft TR Rel-16 38.825 0.0.0 FS_NR_IIOT
=> Agreed as baseline TR

11.7.1 TSN

Aim at this meeting is to Attempt to reply to LS in S2-189051 (as agreed at RAN#81 in RP-182042)
Documents related to the LS reply to SA2 on TSN
The document below has been moved from 11.7.1

R2-1813604 Architecture implications of supporting TSN in RAN Qualcomm Incorporated discussion

R2-1814993 TSN synchronization requirements evaluation Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT

R2-1813967 TSN Interworking in 5G System MediaTek Inc. discussion Rel-16 FS_NR_IIOT

Discussion based on above 3 documents

- Huawei wonders if the black box is the same as in SA2 approach? MediaTek confirms this.
- QC would like to include latency and reliability. Chair indicates there are contributions dealing with those. Ericsson thinks SA1/2 reliability is different than what we have considered so far. This could mean new things to be studied.
- CMCC thinks jitter control may not be in RAN and that should be told to SA2.
- Nokia would like to have black box for all requirements.
- LGE wonders if jitter is included in the black box. Ericsson thinks jitter will be discussed separately. implementation could handle that. LGE thinks we might need something new to handle jitter if it's important. Nokia thinks the jitter is handled in "edge" of black box and should be discussed in SA2.
- MediaTek there are two kinds of jitter: Traffic and system. Huawei thinks we also need to define what jitter means, and SA2 should do that. LGE clarifies they were considering packet level jitter. QC thinks SA2 mentioned a pattern already so SA2 should understand this. Nokia thinks the definition already exists in 22.804. Huawei would like to keep this question open. LGE thinks RAN2 should indicate a preference.
- Samsung thinks there is not impact to RAN2 on multiple clocks. QC agrees. Nokia indicates that SA2 thought there would be impact, but we can just not work on this without SA2.
- Huawei thinks RAN1 should analyse synch. Samsung thinks this is not in RAN1 scope.

Agreements for the SA2 LS reply

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From RAN2 perspective:
1 We prefer Black Box approach and will indicate this to SA2.
2 Handling of packet arrival jitter will not be considered in performance evaluation without SA2 request. We will expect RAN1 to analyse latency and reliability.
3 SA2 and RAN3 should discuss whether any work is needed for time information delivery to the gNB.

The following 8 documents were not treated

R2-1814992 TSN performance requirements evaluation Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
R2-1815271 Performance evaluation of TSN requirements in TR 22.804 CMCC discussion

R2-1814620 Discussion on KPIs defined in 22.804 for TSN integration in 5G system Huawei, HiSilicon discussion
R2-1814272 Discussion on the time synchronization within RAN for supporting IIOT vivo discussion
R2-1813843 Discussion on SA2 LS OPPO discussion
R2-1815343 Fulfillment of TSN requirements Intel Corporation discussion Rel-16 FS_NR_IIOT
R2-1815527 Discussion on TSN Requirements Samsung discussion Rel-16 FS_NR_IIOT Late
R2-1814808 Evaluation of requirements Ericsson discussion Rel-16 FS_NR_IIOT

Draft LSs to reply to SA2

R2-1814994 [DRAFT] LS on TSN performance evaluation Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
=> Revised in R2-1815918

R2-1815918 [DRAFT] LS on TSN performance evaluation Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
- Ericsson supports sending this and would like to send this. vivo would like to send this to RAN4 as well. QC thinks this is not needed. Nokia thinks there are RAN4 impacts but there are already requirements and RAN1 can just read them.

=> Remove mention of multiple clock domains from LS
=> Update to reflect agreements in this meeting
=> Endorsed as baseline for final checking.
=> [CBF] Offline discussion: Provide final LS in R2-1815707 (Offline discussion 801, Nokia)

The following 5 documents were not treated

The document below has been moved from 11.7.1

R2-1813607 Draft Reply LS on TSN integration in the 5G System Qualcomm Incorporated LS out To:SA2
R2-1815459 (Draft)LS on evaluation of clock synchronization requirement for IIOT vivo LS out To:RAN4
R2-1814807 DRAFT reply LS on TSN integration in the 5G System Ericsson LS out Rel-16 FS_NR_IIOT To:SA2 Cc:RAN, RAN1, RAN3, SA1
R2-1814594 DRAFT Reply LS to SA2 on TSN integration in the 5G System Huawei, HiSilicon LS out To:SA2
R2-1815272 Draft Relay LS on performance evalution on TSN in TR 22.804 CMCC discussion

The following 2 documents were not treated

TP on TSN requirements

R2-1814996 TP on TSN requirements Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
=> Revised in R2-1815919

R2-1815919 TP on TSN requirements Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT

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11.7.2 Other

Contributions may be submitted on other aspects of the WI for the purpose of sharing views, but contrbutions will not be discussed at this meeting.

✉ **[103bis#41][NR/IIoT] Intra-UE prioritization (Nokia)**
Intended outcome: Email discussion report
Discuss the scenarios and division of work between RAN1 and RAN2. Views from companies to be presented in email discussion.
Deadline: Thursday 2018-11-02

None of the documents in this AI were treated

R2-1814995 Scenarios for intra-UE prioritization/multiplexing Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
R2-1813844 Discussion on UL/DL intra-UE prioritization/multiplexing OPPO discussion
R2-1814026 LCP enhancements for URLLC InterDigital discussion Rel-16 FS_NR_IIOT
R2-1814027 Intra-UE prioritization InterDigital discussion Rel-16 FS_NR_IIOT
R2-1814273 Consideration on Ethernet header compression for supporting IIOT vivo discussion
R2-1814738 Multiple active BWPs Sony discussion Rel-16 FS_NR_IIOT
R2-1814739 UL Intra-UE Prioritization and multiplexing Sony discussion Rel-16 FS_NR_IIOT
R2-1814809 Industrial IoT with NR Ericsson discussion Rel-16 FS_NR_IIOT
R2-1814810 Uses Cases and Scenarios Ericsson discussion Rel-16 FS_NR_IIOT
R2-1814811 Ethernet Header Compression Ericsson discussion Rel-16 FS_NR_IIOT
R2-1814812 Intra UE prioritization Ericsson discussion Rel-16 FS_NR_IIOT
R2-1814813 UE Time Synchronization Ericsson discussion Rel-16 FS_NR_IIOT
R2-1814814 Resource efficient data duplication Ericsson discussion Rel-16 FS_NR_IIOT
R2-1814815 Scheduling enhancements for TSN traffic pattern Ericsson discussion Rel-16 FS_NR_IIOT
R2-1815180 BSR operation with CA packet duplication Sequans Communications discussion Rel-16 FS_NR_IIOT
R2-1815269 PDCP status report enhancement in IIoT CMCC discussion
R2-1815270 Enhancement for Time-Sensitive Networking CMCC discussion
R2-1815275 Discussion on L2 functions reuse in IIoT CMCC discussion
R2-1815340 Handling of URLLC data in UL during measurement gaps Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT
R2-1815342 Draft LS on intra-UE prioritization/multiplexing Huawei, HiSilicon LS out Rel-16 FS_NR_IIOT To:RAN1
R2-1815371 On the scope of intra-UE DL/UL multiplexing Qualcomm Inc discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1815600
R2-1815600 On the scope of intra-UE DL/UL multiplexing Qualcomm Inc discussion Rel-15 NR_newRAT-Core
R2-1815450 Discussion on intra-UE prioritization/multiplexing Huawei, HiSilicon discussion Rel-12 Rel-16 LTE Work Items

12.1 Additional MTC enhancements for LTE

(LTE_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; target; Dec 19; WID: RP-181878)
Time budget: 2 TU
Documents in this agenda item will be handled in a break out session
Some sub-items in 12.1 and 12.2 may be treated jointly.

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12.1.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

R2-1814350 WI work plan for Rel-16 LTE-MTC Ericsson discussion LTE_eMTC5-Core
=> To capture the agreements from all Rel-16 IoT meetings in the same document as agreed in Rel-16 NB-IoT session.
=> The draft can be provided in R2-1815744.
- Huawei thinks it would be good to have the input for physical layer parameters from RAN1 earlier, e.g. August 2019.
- Ericsson agrees.

✉ **[103bis#08][eMTC/NB-IoT R16] To capture the agreements from the meeting in a document for information. (Blackberry)**
Intended outcome: Endorsed report
Deadline: Thursday 2018-10-19

12.1.2 Mobile-terminated (MT) early data transmission (EDT)

MT Early Data transmission for MTC and NB-IoT is treated jointly under this AI.

R2-1814061 Solution for Mobile Terminated EDT Intel Corporation discussion Rel-16 LTE_eMTC5-Core

Proposal 1. DL EDT indication is included in paging message to let UE know paging is for DL EDT data.

Proposal 2. When using CP CIoT optimization, UE prepares RRC Msg3 to include NAS PDU (i.e., NAS service request) and uses new dedicated DL-EDT PRACH resource for the selected CE level upon receiving DL-EDT indication in paging message. This would allow DL-EDT in corresponding RRC Msg4.

Proposal 3. When using UP CIoT optimization, UE uses legacy PRACH resource (for the selected CE level) and prepares a new RRC Msg3 that indicates the activation of the AS security upon reception of corresponding MSg.4 (assuming successful resumption of the RRC connection). This would allow DL-EDT being multiplexed with RRC Msg4.

- Intel suggests discussing higher level aspects first such as in which message the DL data should be transmitted, e.g., in paging message, Msg2, Msg4. QC agrees.
- QC supports having an indication in the paging message. Gemalto, LG and MediaTek agree.
- Sierra Wireless thinks DL data for MT-EDT should be transmitted in Msg4.
- Ericsson prefers discussing in which message the data should be transmitted and then consider whether there is any need for an indication in the paging message. Nokia agrees.
- QC thinks it would not be efficient to send the user data in paging message, so this option can be removed. Intel agrees.
- Nokia thinks it would be good to at least list the criteria that need to be considered when evaluating the options below, e.g. UE power consumption, resource efficiency etc.

Option 1. MT data in paging message
Option 2. MT data scheduled in paging message
Option 3. MT data after paging message and PRACH preamble transmission
Option 4. MT data in Msg4

- Sierra Wireless thinks it would be good to keep option 1 since it would be the best from UE power consumption standpoint. Huawei agrees and thinks in UMTS this is possible.
- QC now thinks it is fine to keep option 1.
- LG, Intel, Nokia, and MediaTek prefer option 4.
- Intel thinks security should be considered for option 1 and 2.
- Sierra Wireless thinks option 1 can also be considered as efficient if the UE is stationary.
- Nokia wonders how the ACK/NACK mechanism would work for option 1.

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- Chair thinks one should also consider CN aspects, e.g. make sure that the data is not lost, if attempted to be transmitted or scheduled via paging message.
- Huawei suggest discussing the criteria to evaluate the options above in the next meeting.
- Intel thinks security should have a high priority among the evaluation criteria.
- Nokia thinks use cases should also be considered.

R2-1813914 Early DL data transmission Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core
=> Noted.

R2-1814037 MT-initiated EDT Qualcomm Incorporated discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core

=> RAN2 intends to support MT-initiated EDT for both CP and UP solutions.
=> The intention to use MT-EDT is for user data, i.e. not for NAS signalling.

R2-1814340 Mobile-terminated early data transmission Ericsson discussion NB_IOTenh3-Core, LTE_eMTC5-Core

R2-1815546 LS on Mobile-Terminated Early Data Transmission Ericsson LS out Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core To:CT1, RAN3, SA2

R2-1814068 DL EDT TBS size and ACK Intel Corporation discussion Rel-16 LTE_eMTC5-Core

R2-1814415 Analysis of Downlink EDT options Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_eMTC5-Core

R2-1815372 Mobile-terminated Early Data Transmission MediaTek Inc. discussion Rel-16

R2-1814351 Mobile terminated early data transmission III discussion Rel-16 NB_IOTenh3

R2-1814761 Consideration on early data transmission for MT Rel-16 LTE_eMTC5-Core Lenovo, Motorola Mobility discussion

R2-1814925 Consideration for supporting MT EDT in NB-IoT and eMTC Rel-16 ZTE Corporation discussion

R2-1815077 DL following UL EDT Sierra Wireless, S.A. discussion Rel-16

R2-1815280 Considerations on MT EDT LG Electronics UK discussion Rel-16

12.1.3 UE-group wake-up signal (WUS)

UE-group wake-up signal (WUS) for MTC is treated jointly with NB-IoT under AI 12.2.3. Do not use this AI for any item that can be discussed jointly.

12.1.4 Transmission in preconfigured resources

Transmission in preconfigured resources for MTC is treated jointly with NB-IoT under AI 12.2.4. Do not use this AI for any item that can be discussed jointly.

12.1.5 Scheduling multiple DL/UL transport blocks

Scheduling multiple DL/UL transport blocks with or without DCI for SC-PTM and unicast
Scheduling multiple DL/UL transport blocks for MTC and NB-IoT is treated jointly under this AI.

R2-1814344 Scheduling enhancement Ericsson discussion LTE_eMTC5-Core, NB_IOTenh3

- QC wonders how the indication for the physical layer would work for multiple scheduling.
- Ericsson explains that this is open for discussion at the moment.
- Huawei would like to wait for RAN1 regarding the details.
- Sierra Wireless points at the RAN1 agreements from the previous meeting and explains that it has been agreed to introduce a new DCI format.
- MediaTek thinks RRC signalling would be needed to enable/disable.
- QC wonders whether this should be a broadcast signal or provided via dedicated signalling.
- QC wonders how would multiple scheduling work for SC-PTM considering that legacy Ues would not be able to interpret the configuration.

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=> Working assumption: For MTCH in SC-PTM, configuration for multiple scheduling is transmitted in MCCH. Backwards compatibility is FFS.

R2-1813957 Scheduling of multiple DL/UL transport blocks Qualcomm Incorporated discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core
- ZTE and Huawei support Proposal 4; “SPS not considered for NB-IoT in Release 16.”

=> SPS is not supported for NB-IoT in Release 16. Enhancements for “SR with SPS for BSR” can be considered.

R2-1813620 Uplink SPS Considerations Gemalto N.V. discussion

12.1.6 Quality report in Msg3

R2-1814249 DL quality reporting in Msg3 Intel Corporation discussion Rel-16 LTE_eMTC5-Core
- Ericsson wonders how this report is provided in NB-IoT. Huawei explains that the period is up to the UE and the report is provided with RRC signalling.
- Sierra Wireless explains that RAN1 is considering to have such reporting in preconfigured UL resources.
- Sierra Wireless wonders what the benefits of using period T2 would be.
- QC suggests to check which layer would be more suitable for such reporting considering the limitations and possible signalling schemes.
- Huawei thinks similar signalling for reporting can be used as in NB-IoT, i.e. RRC

R2-1814596 Quality report in Msg3 Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

Proposal1: Quality report in Msg3 is introduced for both EDT and non-EDT.

- QC supports the proposal.
- Intel agrees that it should be introduced for EDT, but further discussion is required for non-EDT. MediaTek agrees.

=> Quality report in Msg3 is introduced for EDT. FFS for non-EDT.

Proposal2: RAN2 informs RAN1 about the available bits or the available unused states used for quality report in Msg3:

1)For non-EDT and UP-EDT, there is one spare bit available in the RRC message that can be used to carry the quality report. For CP-EDT, there is no spare bit in the RRC message that can be used to carry the quality report.

2)Regardless of non-EDT and EDT, there is a single reserved bit in the sub-header of Msg3 MAC PDU and several reserved states (i.e. unused states) in the LCID field, which could be used to carry the quality report.

- QC thinks it is too early to inform RAN1.

Proposal3: Options need to be considered, e.g. introducing a new MAC CE or re-designing RRC message, to report the channel quality information in Msg3, if the available bits or available unused states are not enough to include this information.

R2-1814112 Support of quality report in Msg3 for MTC Ericsson discussion Rel-16

R2-1813959 Downlink channel quality reporting in MSG3 for eMTC Qualcomm Incorporated discussion Rel-16 LTE_eMTC5-Core

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12.1.7 MPDCCH performance improvement using CRS

R2-1814597 MPDCCH performance improvement Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

Proposal1: eNB enables CRS for improving channel estimation on MPDCCH via broadcasted RRC signalling for both UEs in idle mode and UEs in connected mode.

Proposal2: The UE in connected mode reports its capability of supporting using CRS for improving channel estimation on MPDCCH.

- Ericsson supports the proposals.
- ZTE would like to know why UE capability is needed. Huawei explains it would be good for the network to know to enable the feature. Ericsson agrees with Huawei.
- Nokia does not see the need for capability reporting since the feature is enabled per cell.
- Huawei explains it would at least help to reduce the number of repetitions in connected mode. Ericsson agrees.

=> eNB enables CRS for improving channel estimation on MPDCCH via broadcasted RRC signalling.

R2-1814396 Consideration on MPDCCH performance improvement in eMTC ZTE Corporation discussion Rel-16 LTE_eMTC5-Core

R2-1814348 MPDCCH performance improvements Ericsson discussion LTE_eMTC5-Core

12.1.8 Improvements for non-BL UEs

CE mode A and B improvements for non-BL UEs among "enhancements to idle mode mobility", "UE demodulation performance requirements for 2 RX antennas and full duplex FDD", "Dual layer DL reception", "Feedback based on CSI-RS", "ETWS/CMAS in connected mode"

R2-1814062 ETWS/CMAS in connected mode for non-BL UE in CE Intel Corporation discussion Rel-16 LTE_eMTC5-Core

- Huawei thinks sending a copy is not good idea.
- QC would like to minimize the impact on non-BL in CE mode UEs. No additional network resources should be used either.
- Ericsson thinks it would be good to check the limitation due to ETWS requirements, e.g. 4 secs
- Intel thinks this is a trade-off, so some resources can be used to support such service.
- Chair wonders whether an evaluation was done when this was specified in earlier releases, i.e. it would be possible for such UEs to receive the information within 4 secs, e.g. after released from connected mode.

R2-1814598 CE mode A and B improvement for non-BL UEs Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

- Intel thinks RAN1 has already attempted to discuss the aspects in proposal 2, but did not succeed, so there is no need to send an LS.
- QC thinks it would be costly from UE power consumption standpoint for non-BL UEs to monitor for paging simultaneously.
- Intel prefers to work on a solution in RAN2 first before asking RAN1.
- QC assumes monitoring for paging would not be an issue from technical standpoint, The main concern would be UE power consumption.

=> RAN2 intends to support CMAS/ETWS for non-BL UEs in CE mode in connected mode.

R2-1814599 Draft LS on connected mode paging Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

R2-1813958 Support of ETWS/CMAS by non-BL UE operating in CE mode Qualcomm Incorporated discussion Rel-16 LTE_eMTC5-Core

R2-1814341 CE mode improvements for LTE-MTC non-BL UEs Ericsson discussion LTE_eMTC5-Core

12.1.9 Stand-alone deployment

Enable the use of LTE control channel region for DL transmission (MPDCCH/PDSCH) to BL/CE UEs

R2-1814349 Standalone enhancements for LTE-MTC Ericsson discussion LTE_eMTC5-Core

Proposal 1 The network can configure the use of LTE control channel region for both unicast and broadcast transmission.

- Huawei and Intel think this should be up to RAN1. RAN2 would the configuration once it is agreed to be supported in RAN1.

Proposal 2 RAN2 to discuss possibility of using MIB bits for indicating whether LTE control region is used for broadcast transmissions.

- Huawei thinks impact on legacy UEs should be considered.
- Sierra Wireless wonders if such indication can also be provided in e.g. SIB1-BR to inform SI message transmission in LTE control channel region. Ericsson confirms that this is possible.
- Intel would like to avoid having an indication in MIB as much as possible.

Proposal 3 Further details of RRC configuration are discussed after more progress in RAN1.

Proposal 4 A UE capability for receiving unicast transmissions in legacy LTE control region shall be defined as a working assumption. More detailed discussion can wait for further RAN1 work.

R2-1814600 Use of LTE Control Channel Region for DL transmission Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

Proposal 1: The standalone deployment supports the legacy operations for the legacy BL UEs or UEs in enhanced coverage.

=> The standalone deployment supports legacy operations for legacy BL UEs or UEs in CE mode.

Proposal 2: The standalone deployment does NOT support the legacy operations for legacy non-BL UEs in normal coverage or UEs not supporting CE mode.

- Huawei thinks this is not about whether there should be support or not, there is impact on legacy operation.

Proposal 3: LTE control channel region for DL transmission is supported for Rel16 BL UEs and UEs in enhanced coverage.

=> LTE control channel region for DL transmission is supported for Rel-16 BL UEs and UEs in CE mode.

Proposal 4: LTE control channel region for DL transmission is not supported for Rel16 non-BL UE in normal coverage.

12.1.10 Mobility Enhancements

Improving the DL RSRP and, RSRQ measurement accuracy, through use of RSS, relaxation of RRM measurements for serving cell for UEs using WUS for at least low mobility UEs

R2-1814601 Use of RSS for measurement improvements Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

R2-1814113 RSS for measurement improvements in LTE-MTC Ericsson discussion

R2-1814345 Relaxation of RRM measurements for UEs using WUS Ericsson discussion LTE_eMTC5-Core

R2-1814346 DRAFT LS on RRM measurement relaxation for Cat-M UEs configured with WUS Ericsson LS out LTE_eMTC5-Core To:RAN4

12.1.11 Coexistence with NR

Study NR and LTE specifications to identify possible issues related to coexistence of MTC with NR

R2-1814395 Consideration on issues related to coexistence of LTE-MTC with NR ZTE Corporation discussion Rel-16 LTE_eMTC5-Core

12.1.12 Other

R2-1814347 Temporary SI densification Ericsson discussion NB_IOTenh3-Core, LTE_eMTC5-Core R2-1807806

12.2 Additional enhancements for NB-IoT

(NB_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; target; Dec 19; WID: RP-181674)
Time budget: 2 TU
Documents in this agenda item will be handled in a break out session
Some sub-items in 12.1 and 12.2 may be treated jointly.

12.2.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

R2-1813903 Additional enhancements for NB-IoT workplan Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

- Huawei propose to start running CRs mid-release, around August. Also to have an official TDoc capturing all agreements, similar to RAN1. QC agree. Maybe can start this after November. Ericsson, Mediatek, Blackberry think this would be useful.

⇒ **To create document agreed after each meeting capturing agreements from all meetings.**

⇒ **Copy/paste of chair notes, not intended to be a further discussion of agreements.**

⇒ **One week email agreement after each meeting**

⇒ **Blackberry will be rapporteur of the document**

12.2.2 Mobile-terminated (MT) early data transmission (EDT)

Mobile-terminated Early Data transmission for NB-IoT is treated jointly with MTC under AI 12.1.2. Do not use this AI for any item that can be discussed jointly.

12.2.3 UE-group wake-up signal (WUS)

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

R2-1813915 UE-Group based Wake-up signal Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core

- Mediatek wonder whether P1 means UE has to monitor two WUS? Huawei think this would be needed. Mediatek have a concern that this would not be efficient from a power consumption point of view. QC have the same concern, if UE monitors the R15 WUS it makes the R16 one redundant. Ericsson, Intel also. ZTE agree with Huawei that we need to think about this but maybe not necessary to monitor the

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legacy WUS. Nokia think UE should monitor only one WUS, but wonder what NW requirement is when paging is for both legacy and R16 UE. QC think NW has to send WUS for all UEs in this case, but that doesn't justify UE monitoring more than one WUS.

- Intel think this depends a lot on RAN1 design. Fraunhofer think it could be useful.
- Huawei also think it will depend on RAN1 design.
- Nokia think it may be possible to monitor different sequence, but at the same time.
- ZTE think that if UE monitors the R16 WUS then monitoring R15 one isn't necessary.
- Nokia think paging can contain ID for both R15 and R16 UE, in this case does NW need to send 2 WUS?
- Ericsson wonder which WG will decide on the UE grouping. Huawei think the criteria is more RAN2.
- Qualcomm understand the R16 WUS is intended to reduce the false wake-up probability compared to R15. Huawei share the understanding. ZTE thinks we need to also consider the overhead and this should be minimised.
- Qualcomm think that UE-ID based grouping should be the baseline, and the other schemes may not be so useful. Mediatek agree that UE-ID based is the baseline and this should be discussed in RAN2. Intel, LG agree. Nokia think this can be baseline but this doesn't exclude other options. Lenovo agree with Nokia that we should not exclude other options
- ZTE wonder what the difference is between DRX/gap based. QC, Intel think that already UEs are grouped according to their DRX. ZTE thinks we need to think whether to further group per gap. Nokia prefer to keep al the options open.

> ⇒ **The aim of UE grouping for WUS is reducing the false alarm probability.**
>
> ⇒ **At least UE_ID based grouping is supported for UE-Group based WUS. This doesn't exclude other options.**
>
> ⇒ **Further discuss whether the following are supported:**
>
> - **Service based grouping**
> - **DRX/eDRX based grouping**
> - **Gap based grouping.**
> - **Coverage based grouping**

R2-1815148	Wake-up signal UE grouping	Ericsson	discussion	Rel-16	LTE_eMTC5, NB_IOTenh3
R2-1813719	UE-group Wake-up Signal for NB-IoT	MediaTek Inc.	discussion		
R2-1813960	UE grouping on wake-up signal channel	Qualcomm Incorporated	discussion	Rel-16	NB_IOTenh3-Core, LTE_eMTC5-Core
R2-1814382	Consideration on UE-group wake-up signal for NB-IoT and eMTC	ZTE Corporation	discussion	Rel-16	LTE_eMTC5-Core, NB_IOTenh3-Core
R2-1814766	Consideration on wake up signal	Lenovo, Motorola Mobility	discussion	Rel-16	LTE_eMTC5-Core

12.2.4 Transmission in preconfigured resources

Including support for transmission in preconfigured resources in idle and/or connected mode based on SC-FDMA waveform for UEs with a valid timing advance.

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

R2-1814278	Supporting UL data transmission on pre-configured resources in IDLE	Qualcomm Incorporated	discussion	Rel-16	LTE_eMTC5-Core, NB_IOTenh3-Core

⇒ **noted**

R2-1814343	Use cases for transmission in preconfigured uplink resources	Ericsson	discussion		NB_IOTenh3-Core, LTE_eMTC5-Core

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⇒ **noted**

R2-1814375 Analysis for UL transmission over preconfigured resources for NB-IoT and eMTC ZTE Corporation discussion Rel-16 NB_IOTenh3-Core

⇒ **noted**

discussion on above 3 papers

- LG think that shared resources can be useful for some cases where data loss may not be an issue. QC agree that shared resoruces this could be broadcast in SIB. LG consider both broadcast and dedicated signalling. ZTE, HW have some concerns with data loss and retransmission scheme but think this can be discussed in RAN1 first - dedicated resource can be discussed in RAN2 before shared resource. QC think that we would need to consider how to handle data loss, e.g. contention resolution.
- Ericsson understand that from RAN2 point of view shared resource means contention based, and dedicated is contention free. We should capture use cases for dedicated first.
- Mediatek also think we should prioritise dedicated resources.
- Sierra Wireless think that shared resources is something we should consider. Dedicated resources are contention free, i.e. assigned to one UE. Shared resources are contention based, but RAN1 haven't progressed on this yet. QC think that shared resources haven't been precluded.
- Nokia want to clarify this is only for Idle mode.
- LG think both periodic and non-periodic traffic should be considered.
- Intel and Sierra wireless think EDT is one use case, but this is not the only one.
- Huawei, ZTE, Mediatek, Ericsson think we can prioritise dedicated resources. LG, Fraunhofer think we should not make that decision for now.

⇒ **Transmission in dedicated preconfigured uplink resources in IDLE mode is supported for UEs with a valid timing advance.**

⇒ **Initially we will focus on dedicated preconfigured uplink resources in idle mode**

- **Shared resources can also be discussed**

R2-1814376 Support for UL transmission over preconfigured dedicated resource in idle mode for NB-IoT and eMTC ZTE Corporation discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core

R2-1813916 Uplink transmission in preconfigured resource Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core

R2-1814342 Preconfigured uplink resources Ericsson discussion NB_IOTenh3-Core, LTE_eMTC5-Core

R2-1814413 Signaling Aspects for transmission in preconfigured resources Nokia, Nokia Shanghai Bell discussion Rel-16 NB_IOTenh3-Core

R2-1815078 Pre-configured UL Resources Design Considerations Sierra Wireless, S.A. discussion Rel-16

R2-1815278 Data transmission using SPS in RRC_IDLE LG Electronics UK discussion Rel-16

R2-1815279 Support for common SPS resource allocation LG Electronics UK discussion Rel-16

12.2.5 Scheduling multiple DL/UL transport blocks

Including scheduling multiple DL/UL transport blocks with or without DCI for SC-PTM and unicast

Scheduling multiple DL/UL transport blocks for NB-IoT is treated jointly with MTC under AI 12.1.5. Do not use this AI for any item that can be discussed jointly.

12.2.6 Network management tool enhancement

Including SON support for ANR, Random access performance and RLF report

R2-1813814 ANR Reporting Protocol for NB-IoT Sequans Communications discussion

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- Huawei wonder whether the assumption is that UE reports once the measurements are done or if the measurements are stored and reported when UE is able to report. Sequans thinks both are possible but prefer configuration->disconnect->reconnect. ZTE think that reconnecting just for ANR is not desirable and reporting later works OK. Gemalto think that connecting just for ANR report should be avoided. Qualcomm think we should consider whether a very late report would be out of date and should consider a time limit. Huawei think it doesn't matter if the report is later because the purpose is for updating neighbour relations in the network.
- Gemalto wonder whether the proposal is to configure via broadcast. Sequans think the main option is dedicated configuration but broadcast is also possible. Gemalto think broadcast impacts also UEs not supporting the feature. ZTE also think broadcast is not suitable.
- Ericsson thinks we should try to address the main purpose, for adding missing neighbour relations. It is not a continuous process for all UEs all of the time. Ericsson think we can base the functionality on what is in LTE. Huawei think we cannot base it on LTE. Nokia agree that the procedure from LTE can't be re-used and support p1.
- Lenovo wonder whether the reporting is done by same or different UEs.

> ⇒ **ANR reporting for NB-IoT only uses idle-mode measurements (i.e. we won't introduce connected mode measurements)**

R2-1814107 RACH report enhancements for SON Qualcomm Incorporated discussion Rel-16 NB_IOTenh3-Core

- Huawei don't think we should re-use the LTE signalling, but agree the RACH report is useful for the NW. Huawei thinks some information can already be known by the eNB and this is combined with information reported from the UE to get the overall picture, so we need to think what information is useful to report.
- Nokia think UE information request/response can't apply to CP solution. Also the reporting can not only be done after connecting to the NW, and don't want to connect just for SON reporting. Qualcomm think the serving cell information can be reported without security.
- Qualcomm think we can use any existing procedures for reporting
- ZTE think we should consider UE information request/response, Msg5 and Msg3 and also think we can enhance existing RACH reporting.
- Lenovo think the NW may not have the information about what the configuration was when UE recorded the RACH information, if the report is done later.

> ⇒ **Support RACH report for NB-IoT**
>
> ⇒ **Will consider whether information in LTE RACH report is extended**

R2-1814379 Analysis on network management tool related measurement report in NB-IoT ZTE Corporation discussion Rel-16 NB_IOTenh3-Core

R2-1813904 Discussion on RACH and RLF report Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

R2-1813905 Discussion on ANR report Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

R2-1814108 Cell Global Identity and strongest measured cell(s) (ANR) Ericsson discussion Rel-16

R2-1814412 SON measurements and reporting for NB-IoT Nokia, Nokia Shanghai Bell discussion Rel-16 NB_IOTenh3-Core

R2-1814764 Consideration on SON in NB-IOT Lenovo, Motorola Mobility discussion Rel-16 LTE_eMTC5-Core

R2-1814765 Consideration on SON in NB-IOT Lenovo, Motorola Mobility discussion Rel-16 LTE_eMTC5-Core Late

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12.2.7 Improved multi-carrier operation

Including support of Msg3 quality reporting for non-anchor access.
Including signalling to indicate on a non-anchor carrier for paging a set of subframes which will contain NRS even when no paging NPDCCH is transmitted.

R2-1814110 Supporting Presence of NRS on a non-anchor carrier for paging in NB-IoT Ericsson discussion Rel-16

R2-1814111 Support of quality report in Msg3 for non-anchor access in NB-IoT Ericsson discussion Rel-16

R2-1813906 Support of Quality report in Msg3 for non-anchor access Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

R2-1813907 Presence of NRS on a non-anchor carrier for paging Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

R2-1813961 Channel quality reporting for non-anchor carriers Qualcomm Incorporated discussion Rel-16 NB_IOTenh3-Core

R2-1813962 Non-anchor carrier measurements for RRM Qualcomm Incorporated discussion Rel-16 NB_IOTenh3-Core

R2-1814380 Support for quality report in Msg3 for non-anchor access in NB-IoT ZTE Corporation discussion Rel-16 NB_IOTenh3-Core

12.2.8 Inter-RAT cell selection

Including power efficient NB-IoT mechanism which would assist idle mode inter-RAT cell selection for NB-IoT to and from LTE, LTE-MTC and GERAN

R2-1813543 LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection (R6-180158; contact: Nokia) RAN6 LS in Rel-16 NB_IOTenh3 To:RANCc:RAN2

⇒ **noted**

R2-1813550 Reply LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection (RP-182176; contact: Nokia) RAN LS in Rel-16 NB_IOTenh3 To:RAN6 Cc:RAN2

- Mediatek support the message in this reply LS.
- Gemalto think reselection in general is not in the scope of the WID, not just to GERAN. This is Nokia understanding.
- Qualcomm think the LS is explicitly about GERAN and wonder if reselection between other systems is allowed. Mediatek think other reselections could be allowed.
- Huawei, Nokia point out that only cell selection is in the WID. Ericsson think the scope is cell selection only but the WID is slightly unclear.
- Qualcomm think that normally information about other RATs is not used for cell selection, but for reselection.
- Sequans think cell reselection is too complicated for NB-IoT UEs, this is more about cell selection assistance.
- Mediatek think this is a terminology issue mainly.

⇒ **noted**

⇒ **RAN2 understands that cell reselection between NB-IoT and any other RAT is not within the scope of this WI**

R2-1814414 Power Efficient mechanism for Inter RAT cell selection Nokia, Nokia Shanghai Bell discussion Rel-16 NB_IOTenh3-Core

- Mediatek don't want to modify the GERAN specification. Nokia wonder how we exclude a specific RAT. Gemalto think it is up to RAN6 to decide on GERAN signalling. QC agree with Gemalto.
- Huawei wonder whether the LTE signalling will be handled in NB-IoT session, Qualcomm think that is better.
- Gemalto think that we need to think exactly what information is needed, for example cell information may be too much – carrier or even just RAT presence may be enough. Sequans, Ericsson agrees.

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- ZTE wonder whether UE can use the assistance information more than once.
- Qualcomm wonder how the RAT change will work. Nokia think that would be up to UE implementation.
- Nokia wonders whether we need to trigger RAN6. Mediatek think RAN6 can do what they want. Qualcomm think that if something needs to be done in RAN6 then there may need to be a WID update.

> ⇒ **NB-IoT network may indicate eMTC/LTE/GERAN assistance information for inter-RAT cell selection**
>
> ⇒ **eMTC/LTE network may indicate NB-IoT assistance information for inter-RAT cell selection**
>
> ⇒ **Intention is not to provide cell reselection parameters**
>
> ⇒ **It is up to UE implementation how and when to perform measurements for cell selection of the target RAT**

R2-1814208 Idle Cell Reselection from NB-IoT to LTE, eMTC Qualcomm India Pvt Ltd discussion Rel-16 NB_IOTenh3-Core
R2-1814209 Idle Cell Reselection from LTE, eMTC to NB-IoT Qualcomm India Pvt Ltd discussion Rel-16 NB_IOTenh3-Core
R2-1813908 Discussion on idle mode inter-RAT cell selection Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

R2-1813816 Inter-RAT selection triggering for NB-IoT Sequans Communications discussion
R2-1814109 IRAT Cell Selection for NB-IoT Ericsson discussion Rel-16

R2-1813720 Inter-RAT Cell Selection and Reselection for NB-IoT MediaTek Inc. discussion
R2-1813721 NB-IoT Inter-RAT Cell Reselection upon State Transition MediaTek Inc. discussion
R2-1814313 Consideration on inter-RAT cell selection/reselection in NB-IoT ZTE Corporation discussion Rel-16 NB_IOTenh3-Core

12.2.9 Coexistence with NR

Study NR and LTE specifications to identify possible issues related to coexistence of NB-IoT with NR

R2-1814384 Consideration on issues related to coexistence of NB-IoT with NR ZTE Corporation discussion Rel-16 NB_IOTenh3-Core

12.2.10 Other

Others

12.3 Even further mobility enhancement in E-UTRAN

(LTE_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Dec 19; WID: RP-181544)
Time budget: 1 TU
Documents in this agenda item will be handled in a break out session

R2-1814014 Conditional handover for LTE InterDigital discussion Rel-16 LTE_feMob-Core

12.3.1 Organizational

Including incoming LSs, work plan and rapporteur inputs
Work plan

R2-1814615 Work plan for even further LTE mobility enhancement China Telecom Work Plan
=> The work plan is agreed

Study phase evaluations and WID scope (e.g. existing mechanisms, 5GC applicability)

R2-1814616 Initial considerations on study phase for LTE_feMob China Telecom discussion

- Chair thinks we don't need a TR and we will capture agreements normally in minutes. Huawei agrees. Intel also agrees and thinks baseline solutions could be captured in documents that are endorsed in meetings if necessary. Ericsson thinks minutes are enough. Nokia thinks a document would be useful but would think maintaining such a document would require lot of time. QC thinks we just need to document the agreements and proposals. QC also thinks we should consider EPC only.
- Huawei and QC think we should discuss LTE and NR independently. Huawei thinks we shouldn't revisit LTE after NR agreements.

Agreements
1 RAN2 minutes will capture the agreements (as normal) – we will not have a TR-like document.

=> FFS on 5GC applicability in this WID. Contributions are invited to next meeting.

R2-1814617 Possible solutions and guidance for solution(s) selection China Telecom discussion

- Huawei thinks also network complexity should be considered in addition to UE complexity. QC agrees that complexity analysis is needed. Deployment aspects (now and near-future) should also be considered. Ericsson thinks the importance of metrics may vary for solutions of interruption time and mobility robustness. Nokia thinks this is a reasonable minimum list, but companies could provide also other metrics. Intel agrees with QC on deployment scenarios.
- Huawei thinks mobility performance is relevant for both objectives. MediaTek thinks not all metrics are easy to evaluate in RAN2, e.g. UE complexity and would like more time to think what are the best metrics. IDT thinks we could have interruption time and failure rate instead of broad "mobility performance". Samsung thinks we already discussed this and it's captured in the scope – we consider interruption time and mobility robustness. vivo Agrees. Xiaomi thinks interruption time is relevant in all solutions. Nokia thinks we can discuss the detailed metrics, but we should consider the areas below in all proposals.

Agreements
1 Solution proposals should consider at least the following metrics: - Mobility robustness - Interruption time 2 Other aspects should also be considered, e.g. - Applicable deployment scenarios - Signalling overhead - Specification effort - UE/network complexity

The following 3 documents were not treated

The document below has been moved from 12.3.2

R2-1815219 Use cases for efMob Huawei, HiSilicon discussion Rel-15 LTE_feMob-Core

R2-1814480 Clarification of the Scope for LTE Connectivity to 5G-CN CATT discussion Rel-16 LTE_feMob-Core

The document below has been moved from 12.3.4

R2-1813793 Discussion on target scenarios for Mobility enhancement in E-UTRAN OPPO discussion Rel-16 LTE_feMob-Core

12.3.2 Reduction in user data interruption during handover

Including analysis of current interruption and possible solutions to reduce the interruption time
Solution directions

R2-1814316 Overview of mobility interruption enhancements in LTE Ericsson discussion Rel-16 LTE_feMob-Core
-

R2-1814460 The analysis of LTE mobility interruption and possible enhancement directions Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core
-

Discussion based on above 2 contributions

- Intel thinks RAN1/4 response was not clear on simultaneous reception and transmission and we would need to check again. Ericsson agrees we should send the LS. MediaTek thinks UE implementations may vary on need for dual Rx/Tx chains for 0ms interruption time. In NR we agreed UE must support simultaneous Rx/Tx if we are to support 0ms in LTE too. QC thinks all 3 options (1Tx/2Rx, 2Tx/1Rx and 1Tx/1Rx) should be considered. Samsung thinks this is correct but not RAN2 to decide and will be defined in RAN4.
- vivo thinks PHY channel reception capabilities may vary between solutions as well.
- Samsung thinks DC was excluded by RANP decision. QC agrees that eMBB should be the focus. Intel clarifies that WID was initially drafted based on DC-based HO, but then generalized to having simultaneous connectivity to source and target cell. Whether this results in DC or something else should be determined during the work. Nokia thinks DC is not precluded even if it is not the only possible solution.
- Ericsson thinks we should ask about different BWs between cells.
- Nokia thinks that RACHless HO was asked from RAN1 (and not RAN4) and the response was that TA calculation is not doable.
- Samsung thinks we should ask about intra/inter-frequency and RACHless. China Telecom thinks we shouldn't send LS on RACHless solutions. Ericsson thinks RAN4 responded the requirements couldn't meet the current requirements, but this need not apply to future requirements.
- Nokia asks whether we target "0ms" or "close to 0ms" as that could affect the solution. QC thinks it's "close to 0ms", e.g. 3-5 ms. Ericsson thinks this is a trade-off and depends on assumptions and scenario. Intel agrees. Samsung also think "0ms" is a theoretical target and "close to 0ms" should be realistic.
- Huawei thinks we should ask form RAN4 whether simultaneous Rx is possible in intra-frequency and RACHless should be 2nd priority. OPPO thinks any LS should ask about interruption time. Currently 5ms interruption time applies for the same bandwidth. LGE agrees we should send LS to understand the limitations and not do downselection yet. Sony agrees we need information from RAN4 but wonders how much we depend on RAN4 since they don't have allocated time until next year. Nokia thinks we can only send LS and hope to get answer – we can't control RAN4 schedule. Likely they will not answer anything different from previous LSs.

=> [CBF] Offline discussion on whether we send LS to RAN1/4, which should include discussion on the scope of the LS. If agreed, draft LS can be provided in R2-1815706 (Offline discussion 800, Nokia)

The following 3 documents were not treated

R2-1815221 Initial considerations of potential solutions Huawei, HiSilicon discussion Rel-15 LTE_feMob-Core

R2-1814481 Solutions on Reduction of User Data Interruption CATT discussion Rel-16 LTE_feMob-Core

R2-1813796 Discussion on the failure handling of handover OPPO discussion Rel-16 LTE_feMob-Core

Multiple connectivity during HO (e.g. DC-based HO, eMBB)

R2-1814054 Discussion for simultaneous connectivity handover Intel Corporation discussion Rel-16 LTE_feMob-Core

Comments

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- Ericsson asks whether eMBB maps to non-split bearer and whether there are two PDCP entities? Intel thinks from NW viewpoint there are anyway 2 PDCP entities. Anyway PDCP is different in source and target. OPPO agrees 2 PDCP entities are needed.
- vivo wonders whether we have some difficulties with SDAP if we use 5GC.
- Samsung wonders what is the problem with security key change in terms of performance or interruption time? Intel clarifies key change doesn't cause interruption, but we need to use RACH as per current procedures. Both UE and NW must have the same understanding on when they keys are changed. So far RACH was used to solve that. We have to solve that problem if we do something new. Ericsson thinks key confusion only arises only in DC-based HO because the switch is needed at some point, whereas in eMBB you use the "right keys" already from start. MediaTek key change incurs PDCP re-establishment, which affects interruption time. LGE thinks we discussed similar issue in Rel-14 LWA.
- vivo asks whether it's allowed to have two keys at the same time? Intel clarifies this is already possible.
- Xiaomi wonders whether we need dual RRC for non-split option. MediaTek it doesn't because we have only one S1-C. MediaTek also thinks we should discuss the PDCP relocation (i.e. whether we have it). Intel isn't sure about dual RRC yet and thinks we need to discuss it further.
- Nokia wonders how dual RRC helps. Intel thinks it may help for robustness.
- Intel thinks we should also discuss duplication (e.g. same data over different paths or PDCP duplication).

=> Use the protocol stack comparison in this contribution as baseline for further discussions between the split bearer and non-split bearer solutions.
=> We should discuss the security key aspects more when we discuss the details of the solutions.
=> Consider how to do reordering in non-split case
=> FFS whether single or dual RRC (and e.g. whether we have 1 or 2 S1-C connections) is considered (S1-C would affect also RAN3)
=> FFS how duplication is considered (depending on solution details)

None of the remaining documents in this AI were treated

R2-1813794	Discussion on mobility enhancement in LTE	OPPO	discussion	Rel-16	LTE_feMob-Core
R2-1814462	Solution candidates for minimizing HO interruption time in LTE	Nokia, Nokia Shanghai Bell	discussion	Rel-16	LTE_feMob-Core
R2-1813792	User plane consideration for dual-stack architecture	OPPO	discussion	Rel-16	LTE_feMob-Core
R2-1814193	UP achitecture and impacts of DC handover	vivo	discussion	Rel-16	LTE_feMob-Core
R2-1814584	Key Change in DC based HO	Apple Inc.	discussion	Rel-16	LTE_feMob-Core
R2-1815222	Initial considerations of UE impacts	Huawei, HiSilicon	discussion	Rel-15	LTE_feMob-Core
R2-1814206	LTE Mobility Enhancements	Qualcomm India Pvt Ltd	discussion	Rel-16	LTE_feMob-Core
R2-1814053	Performance evaluation for simultaneous connectivity	Intel Corporation	discussion	Rel-16	LTE_feMob-Core

The document below has been moved from 12.3.3

R2-1814192	Signalling procedure on DC handover in EUTRAN	vivo	discussion	Rel-16	LTE_feMob-Core
R2-1815242	Considerations on Simultaneous Connectivity with Both Source and Target Cell	ETRI	discussion	Rel-16	LTE_feMob-Core
R2-1815243	Conditional Make-Before-Break Handover	ETRI	discussion	Rel-16	LTE_feMob-Core

Draft LSs to RAN4

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R2-1814461 [DRAFT] LS on the interruption during mobility in LTE Nokia, Nokia Shanghai Bell LS out Rel-16 LTE_feMob-Core To:RAN4

R2-1815223 Draft LS on UE impacts for efMob Huawei, HiSilicon LS out Rel-15 LTE_feMob-Core To:RAN4

Other

R2-1813626 MBB enhancements for reduced interruption time Samsung discussion Rel-16 LTE_feMob-Core

R2-1814622 RACH-less enhancements for reduced interruption time Samsung discussion Rel-16 LTE_feMob-Core

R2-1815220 Existing means related to efMob Huawei, HiSilicon discussion Rel-15 LTE_feMob-Core

12.3.3 Handover robustness improvements

Including analysis of handover robustness issues in Rel-15 and possible solutions to improve that
Evaluation of mobility robustness

R2-1814463 Potential Improvements of Mobility Robustness in LTE Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core

Discussion

- Ericsson doesn't think we should limit the scenarios. QC agrees with Ericsson. Huawei thinks CHO is a new solution and we should understand how it improves the robustness. vivo thinks we should consider SCG change for mobility robustness in addition to handover. MediaTek thinks we shouldn't limit but we need to prioritize. We also need to consider the cost.
- Ericsson thinks we should consider re-establishment enhancements.

Agreements
1 Evaluate new solutions compared to LTE Re-15 mechanisms.

R2-1814317 Overview on mobility robustness enhancements in LTE Ericsson discussion Rel-16 LTE_feMob-Core

Conditional HO

R2-1813795 Discussion on the conditional handover OPPO discussion Rel-16 LTE_feMob-Core

R2-1815244 Considerations on Conditional Handover ETRI discussion Rel-16 LTE_feMob-Core

R2-1814319 Conditional handover in LTE Ericsson discussion Rel-16 LTE_feMob-Core

R2-1814051 Discussion of conditional handover Intel Corporation discussion Rel-16 LTE_feMob-Core

R2-1814207 LTE Mobility Robustness Enhancements Qualcomm India Pvt Ltd discussion Rel-16 LTE_feMob-Core

R2-1814194 Signaling procedures of conditional handover vivo discussion Rel-16 LTE_feMob-Core

The document below has been moved from 12.3

R2-1814014 Conditional handover for LTE InterDigital discussion Rel-16 LTE_feMob-Core

R2-1814582 Improvements on HO Robustness in LTE Apple Inc. discussion Rel-16 LTE_feMob-Core

The document below has been moved from 12.3.2

R2-1815356 Conditional Handover making up for LTE baseline HO Samsung Electronics discussion

The document below has been moved from 12.3.2

R2-1815498 General aspects of Conditional HO LG Electronics Inc. discussion Rel-16 LTE_feMob-Core

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Conditional HO: Simulation results

R2-1814052 Performance evaluation of conditional handover Intel Corporation discussion Rel-16 LTE_feMob-Core

R2-1814320 Simulation results for conditional handover in LTE Ericsson discussion Rel-16 LTE_feMob-Core

R2-1815245 Simulation Results on Conditional Handover ETRI discussion Rel-16 LTE_feMob-Core R2-1807672

R2-1815246 TTT in Conditional Handover ETRI discussion Rel-16 LTE_feMob-Core R2-1807676

Other improvements for HO robustness

R2-1814321 RLC UM for RRC messages Ericsson discussion Rel-16 LTE_feMob-Core

R2-1815224 PDCP duplication for improving robustness in handover Huawei, HiSilicon discussion Rel-15 LTE_feMob-Core

The document below has been moved from 12.3.2

R2-1814322 Enhancements to re-establishment procedure in LTE Ericsson discussion Rel-16 LTE_feMob-Core

The document below has been moved from 12.3.2

R2-1814323 Enhanced handling of timer T312 Ericsson discussion Rel-16 LTE_feMob-Core

12.3.4 Other

None of the documents in this AI were treated

R2-1813797 Discussion on Capability Coordination for LTE Mobility Enhancements OPPO discussion Rel-16 LTE_feMob-Core

R2-1814318 Measurement reporting overhead reduction based on enhanced event triggering Ericsson discussion Rel-16 LTE_feMob-Core

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13 Comebacks

This agenda item will be used during the meeting. No documents are supposed to be submitted by delegates.

13.1 Breakout sessions

13.1.1 Report from Break-Out session

Report from session on Rel-15 LTE and NR idle/inactive mobility

R2-1815601 Report from Break-Out Session, Vice-Chair (CMCC)
CBF: Report from Break-Out Session, Vice-Chair (CMCC)
=> Approved

- Approved in the report but without tdoc number allocated

R2-1814516 LS on UE identity to calculate PF and PO in NR Ericsson LS out Rel-15 NR_newRAT-Core To:RAN3, SA2, CT1
=> LS is approved in R2-1816046

R2-1814745 Remaining aspects of capabilities for Rel-15 Aerial WI Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1654 - F LTE_Aerial-Core
- China telecom, China Unicom and CMCC support the CR.
- Qualcomm object the CR.

=> Agreed in principle

CB on Friday: => CR is revised in R2-1815788 (Offline#283, Google)

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=> R2-1815788 is revised in R2-1816008

R2-1816008 Correction to DRB release Google Inc. CR Rel-15 36.331 15.3.0 3576 - F NR_newRAT-Core
=> Agreed in principle

13.1.2 Report from Break-Out session

Report from session on NR-U SI

R2-1815602 Report from Break-Out Session, Session Chair (Qualcomm)
CBF: Report from Break-Out Session, Session Chair (Qualcomm)
- Intel think the LS from the NR-U session is not needed as there is already an SA2 SI agreed on this topic.
- Charter think there is no LS in SA2 that is linked to NR-U
- Huawei have the same view as Intel.

=> Approved

R2-1815892 LS on requesting study of system level aspects of NR-U Qualcomm Incorporated LS out To:SA2 Cc:RAN1, RAN3, RAN, SA
=> Approved in R2-1816026

R2-1815890 TP for NR-U Connected Mode Mobility (InterDigital) InterDigital
=> Agreed

R2-1815891 TP for Mobility and RLM in NR-U Qualcomm Incorporated discussion
=> Agreed

R2-1815889 TP for RACH in NR-U Qualcomm Incorporated discussion
=> Remove " and it may not be necessary to increase these counters "
=> Agreed in R2-1816028 (Note this reflects agreements prior to this meeting. The text will need to be updated again (at RAN2#104) to reflect agreements taken at this meeting)

13.1.3 Report from Break-Out session

Report from session on NB-IoT

R2-1815603 Report from Break-Out Session, Session Chair (Huawei)
CBF: Report from Break-Out Session, Session Chair (Huawei)
=> Approved

13.1.4 Report from Break-Out session

Report from session on MTC

R2-1815604 Report from Break-Out Session, Session Chair (Ericsson)
CBF: Report from Break-Out Session, Session Chair (Ericsson)
=> Approved

R2-1815741 Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107) ZTE CR
=> The CR is in-principle agreed from eMTC WI standpoint. The updated CR should also be presented in the main room.
=> Agreed in principle

R2-1815746 Correction on fallback cases in EDT Ericsson CR Rel-15 36.321 15.3.0 1370 1 F NB_IOTenh2-Core, LTE_eMTC4-Core
=> Agreed in principle

13.1.5 Report from Break-Out session

Report from session on Legacy LTE and Rel-15 LTE, NR User plane, NTN

R2-1815605 Report from Break-Out Session, Session Chair (InterDigital)
CBF: Report from Break-Out Session, Session Chair (InterDigital)
=> Approved

R2-1815648 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 38.331 15.3.0 0448 - F NR_newRAT-Core
=> Agreed in principle

R2-1815633 DRAFT Reply LS on Dynamic PLR Allocation in eVoLP Qualcomm Incorporated LS out Rel-15 FS_eVoLP To:SA4 Cc:SA2
=> Revised in R2-1816060 (Huawei, Offline discussion 89)

R2-1816060 DRAFT Reply LS on Dynamic PLR Allocation in eVoLP Qualcomm LS out Rel-15 FS_eVoLP To:SA4 Cc:SA2
=> Approved in R2-1816041

13.1.6 Report from Break-Out session

Report from session on Positioning

R2-1815606 Report from Break-Out Session, Session Chair (MediaTek)
CBF: Report from Break-Out Session, Session Chair (MediaTek)
=> Approved

R2-1815657 SFN offset for OTDOA Intel Corporation CR Rel-15 36.355 15.1.0 0229 1 F NR_newRAT-Core
=> Agreed in principle

R2-1815658 LS on SFN offset for OTDOA Intel Corporation LS out NR_newRAT-Core To:RAN4
=> Approved in R2-1816042

13.1.7 Report from Break-Out session

Report from session on V2X (LTE and NR)

R2-1815607 Report from Break-Out Session, Session Chair (Intel)
CBF: Report from Break-Out Session, Session Chair (Intel)
=> Approved

13.1.8 Report from Break-Out session

Report from session on Rel-16 LTE Mobility Enhancements WI, IIoT

R2-1815608 Report from Break-Out Session, Session Chair (Nokia)
CBF: Report from Break-Out Session, Session Chair (Nokia)
=> Approved

Comeback on Friday

NR IIoT:

R2-1815918 [DRAFT] LS on TSN performance evaluation Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
=> Remove mention of multiple clock domains from LS
=> Update to reflect agreements in this meeting
=> Endorsed as baseline for final checking.
=> [CBF] Offline discussion: Provide final LS in R2-1815707 (Offline discussion 801, Nokia)

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R2-1815707 [DRAFT] LS on TSN performance evaluation Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
=> Approved in R2-1816043

LTE feMOB:

R2-1814316 Overview of mobility interruption enhancements in LTE Ericsson discussion Rel-16 LTE_feMob-Core

R2-1814460 The analysis of LTE mobility interruption and possible enhancement directions Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core

=> [CBF] Offline discussion on whether we send LS to RAN1/4, which should include discussion on the scope of the LS. If agreed, draft LS can be provided in R2-1815706 (Offline discussion 800, Nokia)

R2-1815706 LS on the interruption time during mobility in LTE Nokia LSout Rel-16 LTE_feMob-Core To:RAN1, RAN4
=> Approved

13.1.9 Report from Break-Out session

Report from session on L1 Parameters

R2-1815926 Report from Break-Out Session, Session Chair (Ericsson)
CBF: Report from Break-Out Session, Session Chair (Ericsson)
- Following the session it was found that due to RAN1 changes R2-1815924 should be updated again and will be provided to next meeting.

=> R2-1815924 is not in principle agreed
=> Approved

Offline discussion 900) Huawei should provide an update CR on SRS-config in R2-1815921

R2-1815921 Correction in 38331 for SRS-config Huawei, HiSilicon
=> Agreed in principle

(Offline discussion 901) VIVO may consider making a CR on PUCCH-ConfigCommon making this even more clear in the RRC spec. Updated CR to be provided in R2-1815920 (Offline discussion 901)

R2-1815920 CR on PUCCH-ConfigCommon vivo
=> For field description of pucch-Config add '(s)' to make "at least on non-initial BWP(s)..."
=> Agreed in principle in R2-1816044

13.2 Main session

14 Outgoing LSs

Draft LSs should be submitted to their corresponding agenda item if there is one. If there is no appropriate agenda item, draft LSs, and any association discussion documents, may be submitted to this agenda item.

Including documents related to the response to SA2 LS on FS_eVoLP in R2-1811032 received at RAN2#103

R2-1814224 DRAFT Reply LS on Dynamic PLR Allocation in eVoLP Qualcomm Incorporated LS out Rel-15 FS_eVoLP To:SA4 Cc:SA2
First question
- Ericsson states that even though it can be done it is not fully feasible from a signalling overhead perspective. Intel agrees that we would increase overhead.

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- Huawei thinks that there is not benefit but SA2 and SA4 should look at it.
- Qualcomm thinks we can add that RAN2 does not intend to analyse the usefulness or benefits and it is up to SA2 and SA4 to analyse the benefits.
- Huawei indicates that the original LS asks if we would prefer and we should indicate that we don't prefer.
- Ericsson has some concerns on the second question as well. Intel thinks that this will not be specified and it will be up to network implementation to take into account.
- Qualcomm explains that today this is already possible and it is up to the eNB whether to use it or not and even signalling frequency is up to the network configuration. The only thing new is where this information is coming from.

=> The LS is revised in R2-1815633

R2-1815633 DRAFT Reply LS on Dynamic PLR Allocation in eVoLP Qualcomm Incorporated LS out Rel-15 FS_eVoLP To:SA4 Cc:SA2

[Offline discussion 512] – QC. Update to indicate that RAN2 does not intend to analyze the benefits and that from RAN2 point of view the frequency of RRC signalling is a concern. Find a nice way to state that some companies are not too happy introducing this and there are some concerns.

R2-1814605 Discussion on the recommendations on FS_eVoLP HUAWEI TECH. GmbH discussion Rel-16 FS_eVoLP

=> Noted

15 Any other business

16 Closing of the meeting (17:00)

The meeting was closed at 16:59 on Friday, 12th of October.

Annex A: List of participants

RAN2#103bis participants list is at: http://webapp.etsi.org/3GPPRegistration/fViewPart.asp?mid=18785

Total number of participants: 313 (registered 409)

Annex B: List of Tdocs

The list of tdocs of this RAN2#103bis is attached to this report.

Total of 2569 tdoc numbers were allocated of which 2387 tdocs were available.

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Annex C:
Incoming liaison statements

TDoc	Title	Source	Status	Rel	Related WIs	To	Cc	Original LS

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R2-1813502	LS to 3GPP RAN and 3GPP SA on 5G Indicator Requirements (contact: Sprint)	GSMA 5GSI	noted			RAN, SA	SA2, SA1, RAN2, CT1 , CT	5GSI#04 Doc 003 LS to 3GPP on 5G Indicator Requirement
R2-1813503	LS on unified access control in RRC_Inactive (C1-185602; contact: Huawei)	CT1	noted	Rel-15	5GS_Ph1-CT	SA1	RAN2	C1-185602
R2-1813504	Reply LS on maximum size of UE Radio Capabilities and maximum Information Element size on network interfaces (C4-186641; contact: Vodafone)	CT4	noted	Rel-16	FS_RACS	SA2	RAN2, RAN3, CT1, CT3	C4-186641
R2-1813505	LS on Joint ETSI - OSA Workshop: Open Implementations & Standardization (ETSI_CL18_3463; contact: ETSI)	ETSI	noted			RAN, RAN1, RAN2, RAN3, RAN4, RAN5, TSG CT, CT1, CT3, CT4, CT6, TSG SA, SA3, SA5, SA6		LS_ETSI_CL3463
R2-1813506	LS on Restriction of 1024QAM CSI reporting (R1-1809609; contact: Nokia)	RAN1	not treated	Rel-15	LTE_1024QAM_DL-Core, LTE_sTTIandPT-Core	RAN2		R1-1809609
R2-1813507	LS on UL PRB to DL PRB center offset for TDD NB-IoT (R1-1809681; contact: Ericsson)	RAN1	noted	Rel-15	NB_IOTenh2-Core	RAN4	RAN2	R1-1809681
R2-1813508	LS on sTTI (R1-1809687; contact: Ericsson)	RAN1	noted	Rel-15	LTE_sTTIandPT-Core	RAN2		R1-1809687
R2-1813509	LS on HRLLC (R1-1809691; contact: Ericsson)	RAN1	not treated	Rel-15	LTE_HRLLC-Core	RAN2		R1-1809691
R2-1813510	Reply LS on termination of contention-free BFR (R1-1809887; contact: MediaTek)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809887
R2-1813511	Reply LS on UE power class and UE capability on SRS carrier switch (R1-1809889; contact: Huawei)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2, RAN4		R1-1809889
R2-1813512	LS on support of unicast, groupcast, and broadcast (R1-1809907; contact: LGE)	RAN1	noted	Rel-16	FS_NR_V2X	RAN2, SA2		R1-1809907
R2-1813513	Reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon (R1-1809958; contact: Ericsson)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809958
R2-1813514	LS on density parameter for CSI-RS-ResourceConfigMobility (R1-1809960; contact: Intel)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809960
R2-1813515	Reply LS on Further Agreements on Paging Occasions (R1-1809965; contact: Huawei)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809965
R2-1813516	LS on DCI format 2_3 (R1-1809966; contact: NTT DOCOMO)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809966
R2-1813517	Reply LS on PDCCH common search space configurations	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809971

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	(R1-1809971; contact: NTT DOCOMO)							
R2-1813518	LS on K1 Slot Offset (R1-1809982; contact: Qualcomm)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809982
R2-1813519	LS on Text Proposal to TS 38.300 for URLLC (R1-1809991; contact: Ericsson)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809991
R2-1813520	LS on NR-LTE Co-existence (R1-1809992; contact: Intel, LGE)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2, RAN4		R1-1809992
R2-1813521	LS on the number of CQI reports (R1-1809993; contact: Intel)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1809993
R2-1813522	LS on bandwidth configuration for initial BWP (R1-1810002; contact: MediaTek)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1810002
R2-1813523	Reply LS on UE capability for simultaneousTxSUL-NonSUL (R1-1810004; contact: Huawei)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2	RAN4	R1-1810004
R2-1813524	LS on new UE features list for NR (R1-1810005; contact: NTT DOCOMO)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN, RAN2	RAN3, RAN4	R1-1810005
R2-1813525	LS on cross-carrier scheduling (R1-1810009; contact: NTT DOCOMO)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1810009
R2-1813526	LS on higher layer configuration for search space monitoring (R1-1810010; contact: NTT DOCOMO)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1810010
R2-1813527	Reply LS on maximum size of UE Radio Capabilities and maximum Information Element size on network interfaces (R3-185104; contact: Intel)	RAN3	noted	Rel-16	FS_RACS	SA2	RAN2, CT1, CT3, CT4	R3-185104
R2-1813528	Reply LS on Issues with AS Release Assistance Indicator (R3-185106; contact: Huawei)	RAN3	noted	Rel-14	TEI14	SA2, RAN2		R3-185106
R2-1813529	LS on LTE 1RX CRS-IM UE capabilities (R4-1811385; contact: Intel)	RAN4	noted	Rel-15	LTE_1RX_CRS_IM	RAN2		R4-1811385
R2-1813530	Reply LS on gap-assisted serving cell measurement (R4-1811404; contact: Intel)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2		R4-1811404
R2-1813531	LS for UE capability of measurement gap for inter-RAT NR measurement not yet configured with EN-DC (R4-1811405; contact: Intel)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2		R4-1811405
R2-1813532	Reply LS on Discrepancy on the number of NS values (R4-1811458; contact: Ericsson)	RAN4	noted			RAN2		R4-1811458
R2-1813533	LS on UE feature list for NR (R4-1811531; contact: NTT DOCOMO)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN, RAN1, RAN2	RAN3	R4-1811531
R2-1813534	Reply LS on SRS carrier switching (R4-1811534; contact: Huawei)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN1, RAN2		R4-1811534
R2-1813535	LS to RAN2 on removing a sentence related to restriction for intra-band LAA aggregation (R4-1811562; contact: Ericsson)	RAN4	noted	Rel-13	LTE_LAA	RAN2	RAN1	R4-1811562
R2-1813536	LS on SFTD scenarios for late drop (R4-1811714; contact: Ericsson)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2	RAN1	R4-1811714
R2-1813537	LS on the applicability for dense PRS gap patterns (R4-1811737; contact: Huawei)	RAN4	noted	Rel-15	LTE_eMTC4-Core	RAN2		R4-1811737
R2-1813538	LS on introduction of UE capability for pi/2 BPSK modulation with power boosting capability (R4-1811788; contact: Indian	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2		R4-1811788

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	Institute of Tech)							
R2-1813539	Reply LS on RAN2 progress on ANR (R4-1811851; contact: vivo)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2	RAN1, RAN3, SA5	R4-1811851
R2-1813540	LS on UE feature list for LTE (R4-1811904; contact: NTT DOCOMO)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN, RAN1, RAN2	RAN3	R4-1811904
R2-1813541	LS on RAN4 design on channel bandwidth (R4-1811905; contact: Qualcomm)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2		R4-1811905
R2-1813542	Reply LS on Return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (R6-180157; contact: Qualcomm)	RAN6	noted	Rel-16	FS_5G-SRVCC	SA2	RAN2, RAN3	R6-180157
R2-1813543	LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection (R6-180158; contact: Nokia)	RAN6	noted	Rel-16	NB_IOTenh3	RAN	RAN2	R6-180158
R2-1813544	LS on additional information related to return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (R6-180164; contact: Nokia))	RAN6	noted	Rel-16	FS_5G-SRVCC	SA2	RAN2, RAN3	R6-180164
R2-1813545	LS on RAN1 NR UE feature list (RP-182143; contact: NTT DOCOMO)	RAN	noted	Rel-15	NR_newRAT-Core	RAN1, RAN2	RAN4	RP-182143
R2-1813546	LS on EN-DC Power Control (RP-182167; contact: Sprint)	RAN	noted	Rel-15	NR_newRAT-Core	RAN4	RAN2	RP-182167
R2-1813547	LS on NR UE feature list (RP-182173; contact: NTT DOCOMO)	RAN	noted	Rel-15	NR_newRAT-Core	RAN2, RAN4	RAN1	RP-182173
R2-1813548	LS on LTE UE feature list (RP-182174; contact: NTT DOCOMO)	RAN	noted	Rel-15		RAN2, RAN4	RAN1	RP-182174
R2-1813549	LS to RAN5 on TM9 FGI bits 103 and 104 (RP-182175; contact: Huawei)	RAN	noted	Rel-15		RAN5	RAN2	RP-182175
R2-1813550	Reply LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection (RP-182176; contact: Nokia)	RAN	noted	Rel-16	NB_IOTenh3	RAN6	RAN2	RP-182176
R2-1813551	Regarding LTE LAA channel combinations for 5GHz (RP-182177; contact: Charter Communications)	RAN	noted	Rel-13	LTE_LAA	RAN1, RAN2, RAN4		RP-182177
R2-1813552	Reply LS to IEEE 802.11 working group in relation to certain channel combinations for LAA in 5GHz (RP-182178; contact: Charter Communications)	RAN	noted	Rel-13		IEEE 802.11 WLAN WG	RAN1, RAN2, RAN4	RP-182178
R2-1813553	LS on GAD shape(s) for high accuracy positioning (S2-188891; contact: Nokia)	SA2	noted	Rel-15	LCS_LTE_acc_enh-Core	RAN2		S2-188891
R2-1813554	LS on TSN integration in the 5G System (S2-189051; contact: Qualcomm)	SA2	noted	Rel-16	FS_Vertical_LAN	RAN1, RAN2, RAN3	RAN, SA1	S2-189051
R2-1813555	Reply LS on Bluetooth/WLAN measurement collection in MDT (S3-182592; contact: Ericsson)	SA3	noted	Rel-15	LTE_MDT_BT_WLAN-Core	RAN2	SA5, RAN3, CT4	S3-182529
R2-1813556	LS on Using same counter in EDCE5 (S3-182616; contact: Ericsson)	SA3	noted	Rel-15	EDCE5	RAN2, RAN3		S3-182616
R2-1813557	Reply LS on inactive security (S3-182640; contact: Ericsson)	SA3	noted	Rel-15	NR_newRAT-Core, LTE_5GCN_connect	RAN2	RAN3	S3-182640
R2-1813558	LS on indications for key synchronization (S3-182668; contact: ZTE)	SA3	noted	Rel-15	5GS_Ph1-SEC	CT4, CT1, RAN2, RAN3		S3-182668

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R2-1813559	Reply LS on Data Analytics in SA WG2 NWDAF (S5-185404; contact: Huawei)	SA5	noted	Rel-16	FS_eNA	SA2	SA, RAN, RAN2, RAN3	S5-185404
R2-1813560	LS reply to RAN 3 on L2 measurement (S5-185560; contact: Ericsson)	SA5	noted	Rel-15	NETSLICE-ADPM5G	RAN3	RAN1, RAN2	S5-185560
R2-1813561	LS reply on L2 measurement (S5-185585; contact: Ericsson)	SA5	noted	Rel-15	NETSLICE-ADPM5G	RAN2	RAN1, RAN3	S5-185585
R2-1813562	Reply LS on Response LS on adding measurements on average number of total active UEs (S5-185594; contact: Huawei)	SA5	noted	Rel-15	TEI15	RAN2		S5-185594
R2-1815592	LS on replay protection (S3-183059; contact: Ericsson)	SA3	noted	Rel-15	NR_newRAT-Core	RAN2	RAN3	S3-183059
R2-1815593	LS on initial NAS security agreements (S3-183066; contact: Qualcomm)	SA3	noted	Rel-15	5GS_Ph1-SEC	SA2, CT1, RAN2, RAN3, SA		S3-183066
R2-1815594	Reply LS on key update (S3-183071; contact: Ericsson)	SA3	noted	Rel-15	NR_newRAT-Core	RAN2		S3-183071
R2-1815595	LS on maximum output size of SUPI concealment schemes (S3-183142; contact: Ericsson)	SA3	noted	Rel-15	5GS_Ph1-SEC	CT1, CT4	RAN2, SA2	S3-183142
R2-1815596	LS on RRC Reestablishment during N2 Handover (S3-183143; contact::Huawei)	SA3	noted	Rel-15	5GS_Ph1-SEC	RAN2	RAN3	S3-183143
R2-1815597	LS on the Impacts of increasing the MAC-I and NAS-MAC size (S3-183168; contact: AT&T)	SA3	noted	Rel-16	FS_256_Algo	RAN2, RAN3, CT1	ETSI SAGE	S3-183168
R2-1815812	LS on PDCCH monitoring periodicities for DCI format 2_0 (R1-1811968; contact: Intel)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1811968
R2-1815954	Reply to LS on Preamble Power Ramping Counter (R1-1811964; contact: Fujitsu)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2	RAN4	R1-1811964
R2-1815955	LS on ss-PBCH-BlockPower definition (R1-1811965; contact: Intel)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1811965
R2-1815956	LS on MO configuration with multiple SSB SCS for a given SSB frequency (R1-1811966; contact: Intel)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2	RAN4	R1-1811966
R2-1815995	LS to RAN2 on Data Volume measurements (S5-186392; contact: Ericsson and Orange)	SA5	noted	Rel-16	EE_5G	RAN2	RAN1, RAN3, SA	S5-186392
R2-1816048	Reply LS on intra-band combination for NR CA and MR-DC (R4- 1813862; contact: T-Mobile)	RAN4	not treated	Rel-15	NR_newRAT-Core	RAN2	RAN1	R4-1813862

73 incoming LS, of which 70 were noted. The non-treated LSin will be handled in RAN2#104.

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Annex D:
Outgoing liaison statements

TDoc	Title	Rel	Related WIs	To	Cc
R2-1815646	LS to RAN1 on PHR and SUL	Rel-15	NR_newRAT-Core	RAN1	
R2-1815665	LS on TX Profiles Provisioning	Rel-15	LTE_eV2X-Core	SA2	CT1, RAN3
R2-1815668	LS on sensing and reporting for Mode 3	Rel-15	LTE_eV2X-Core	RAN1	
R2-1815690	LS on clarification for limited Tx capability	Rel-15	LTE_eV2X-Core	RAN1	
R2-1815692	LS to SA2 on unicast, groupcast and broadcast in NR sidelink	Rel-16	FS_NR_V2X	SA2	RAN1
R2-1815706	LS on the interruption time during mobility in LTE	Rel-15	LTE_feMob-Core	RAN1, RAN4	
R2-1815751	LS on UP-EDT procedure when resuming in a new eNB	Rel-15	LTE_eMTC4-Core, NB_IOTenh2-Core	RAN3	
R2-1815861	Reply LS on bandwidth configuration for initial BWP	Rel-15	NR_newRAT-Core	RAN1	
R2-1816006	Reply LS on Further Agreements on Paging Occasions	Rel-15	NR_newRAT-Core	RAN1	
R2-1816007	LS on the need of paging reception for the call-back when a UE is in limited service state	Rel-15	NR_newRAT-Core	SA2, SA1	
R2-1816010	Reply LS on " LS on Using same counter in EDCE5"	Rel-15	NR_newRAT-Core	SA3	RAN3
R2-1816011	Reply LS on L2 measurements	Rel-15	NR_newRAT-Core	SA5	RAN3
R2-1816012	Reply LS on the Impacts of increasing the MAC-I and NAS-MAC size	Rel-15	FS_256_Algo	SA3	
R2-1816013	LS on RRC establishment cause in RRC reestablishment fallback case	Rel-15	NR_newRAT-Core	CT1, RAN3	
R2-1816016	LS on frequency separation class	Rel-15	NR_newRAT-Core	RAN4	
R2-1816018	Reply LS on optimisation of UE capability signalling	Rel-16	FS_RACS_RAN	SA2	SA, RAN, RAN3, CT1, CT4
R2-1816022	Reply LS on initial NAS security agreements	Rel-15	5GS_Ph1-SEC	SA3	SA2, CT1, RAN3, SA
R2-1816023	Reply LS on higher layer configuration for search space monitoring	Rel-15	NR_newRAT-Core	RAN1	
R2-1816024	LS on the total RRC Configuration size	Rel-15	NR_newRAT-Core	RAN1	
R2-1816026	LS on requesting study of system level aspects of NR-U	Rel-15	FS_NR_unlic	SA2	RAN1, RAN3, RAN, SA
R2-1816031	LS on Resume failure in RRC_INACTIVE	Rel-15	NR_newRAT-Core	CT1	
R2-1816041	Reply LS on Dynamic PLR Allocation in eVoLP	Rel-15	FS_eVoLP	SA4	SA2
R2-1816043	LS on TSN performance evaluation	Rel-16	FS_NR_IIOT	RAN1, RAN3, SA1, SA2	
R2-1816046	LS on UE identity to calculate PF and PO in NR	Rel-15	NR_newRAT-Core	RAN3, SA2, CT1	
R2-1816051	LS on drb-Identity assignment in EN-DC	Rel-15	NR_newRAT-Core	RAN3	
R2-1816053	Reply LS on security requirements for RRC connection release	Rel-15	NR_newRAT-Core	SA3, CT1	RAN3
R2-1816054	LS on security requirements for Integrity protection for DRBs in MR-DC	Rel-15	NR_newRAT-Core	SA3	
R2-1816055	Further reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon	Rel-15	NR_newRAT-Core	RAN1	
R2-1816057	LS on RNAU without context relocation	Rel-15	NR_newRAT-Core	RAN3	
R2-1816058	LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service	Rel-15	NR_newRAT-Core	CT1	SA2
R2-1816059	LS on SFN offset for OTDOA	Rel-15	NR_newRAT-Core	RAN4	
R2-1816064	LS on the search space of cross-carrier scheduling	Rel-15	NR_newRAT-Core	RAN1	
R2-1816065	LS on MIMO layer configuration	Rel-15	NR_newRAT-Core	RAN1, RAN4	
R2-1816066	LS on late drop UE capabilities	Rel-15	NR_newRAT-Core	RAN1, RAN4	
R2-1816067	Reply LS on RAN4 design on channel bandwidth	Rel-15	NR_newRAT-Core	RAN4	RAN1
R2-1816068	LS to SA1 on RRCReject T302 Timer Exemption for MPS and MCS	Rel-15	NR_newRAT-Core	SA1	CT1

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36 outgoing LS.

Annex E:
List of agreed-in-principle CRs

Agreed-In-Principle CRs:

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TDoc	Title	Source	Rel	Spec	Related WIs	CR	Rev	Ca
R2-1813573	Correction for duplication based on Rel-14 TX profile	OPPO	Rel-15	36.300	LTE_eV2X-Core	1193		F
R2-1813643	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_5GCN_connect-Core	3553		F
R2-1813645	Clarification to no barring configuration for Implicit UAC	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_5GCN_connect-Core	3554		F
R2-1813647	Correction to Access Category and barring config determination for Implicit UAC	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_5GCN_connect-Core	3555		F
R2-1813666	CR for TS38.331 on PDCCH-ConfigSIB	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0200		F
R2-1813768	Corrections to euCA	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_euCA-Core	3567		F
R2-1813823	[C204] Handling of timer T380	CATT	Rel-15	38.331	NR_newRAT-Core	0219		F
R2-1813882	Clarification on capabilities transferring	Google Inc.	Rel-15	36.331	NR_newRAT-Core	3578		F
R2-1813898	Clarification of features not supported in NB-IoT	Huawei, HiSilicon	Rel-15	36.300	NB_IOTenh2-Core	1195		F
R2-1813913	Removal of duplicate rel-15 NB-IoT/eMTC capabilities and introducing TDD-FDD differentiation for WUS capabilities in eMTC	Huawei, HiSilicon	Rel-15	36.306	LTE_eMTC4-Core	1625	1	F
R2-1813956	Update description of consecutive precoders used for NSSS	Qualcomm Incorporated	Rel-15	36.331	NB_IOTenh2-Core	3585		F
R2-1813968	Handling on simultaneously triggered NAS/AS events (I770)	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0237		F
R2-1813974	Miscellaneous corrections on E-UTRA connected to 5GCN	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3586		F
R2-1813976	Open issues on E-UTRA connected to 5GC for UAC	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3587		F
R2-1814085	CR to 38.331 on protection of RRC messages table	Ericsson	Rel-15	38.331	NR_newRAT-Core	0252		F
R2-1814121	Correction to the system information in Handover Request message	Huawei, HiSilicon, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0086		F
R2-1814159	CR on threshold description for cell quality derivation	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0278		F
R2-1814164	CR to avoid unnecessary L3 filtered beam measurements	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0282		F
R2-1814211	System Information Provisionning	Rapporteur (Nokia), OPPO, Sanechips, ZTE corporation	Rel-15	38.300	NR_newRAT	0089		F
R2-1814230	Timer based BWP switching	Qualcomm Incorporated	Rel-15	38.306	NR_newRAT-Core	0033		F
R2-1814233	UE capabilty for IDC mechanism for EN-DC operation	Qualcomm Incorporated	Rel-15	36.306	NR_newRAT-Core	1652		F
R2-1814452	On field descriptions on measObjectEUTRA	Ericsson	Rel-15	38.331	NR_newRAT-Core	0333		F
R2-1814505	On procedural correction on measurements	Ericsson	Rel-15	38.331	NR_newRAT-Core	0342		F
R2-1814517	Correction on paging for LTE connected to 5GC	Ericsson	Rel-15	36.304	NR_newRAT-Core	0750		F
R2-1814519	Clarification for absense of nr-NS-PmaxList IE	Ericsson	Rel-15	38.331	NR_newRAT-Core	0344		F
R2-1814537	Clarification for Interruption-based and gap-based SFTD measurement	Nokia, Nokia Shanghai Bell	Rel-15	38.306	NR_newRAT-Core	0016	3	F
R2-1814538	Clarification to UE capability of independentGapConfig for inter-RAT NR measurement not yet configured with EN-DC	Nokia, Nokia Shanghai Bell	Rel-15	38.306	NR_newRAT-Core	0037		F
R2-1814573	Update on L2 capabilities	Ericsson	Rel-15	38.306	NR_newRAT-Core	0038		F
R2-1814574	Update on L2 capabilities	Ericsson	Rel-15	38.331	NR_newRAT-Core	0355		F
R2-1814653	Procedures for full config at RRC Resume (38.331)	Ericsson	Rel-15	38.331	NR_newRAT-Core	0364		F
R2-1814690	CR on 37.340 for split SRB UL configuration	Huawei, HiSilicon	Rel-15	37.340	NR_newRAT-Core	0067		F
R2-1814745	Remaining aspects of capabilities for Rel-15 Aerial WI	Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell	Rel-15	36.306	LTE_Aerial-Core	1654		F
R2-1814843	CR to 36.306 on correction of capability name for NW based CRS interference mitigation	Ericsson	Rel-15	36.306	LTE_NW_CRS_IM	1657		F
R2-1814892	Miscellaneus clarifications	ZTE Corporation, Sanechips, Huawei, HiSilicon	Rel-15	37.340	NR_newRAT-Core	0071		F

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R2-1814895	Clarification on SSB-based BM, RLM and BFD	ZTE Corporation, Sanechips	Rel-15	38.300	NR_newRAT-Core	0102		F
R2-1814904	Minor corrections to services provided by physical layer	Huawei, HiSilicon	Rel-15	36.302	LTE_eMTC4-Core, LTE_1024QAM_DL-Core	1195	1	F
R2-1814907	Alignment of IE/field names between LPP and RRC specifications	Qualcomm Incorporated	Rel-15	36.355	LCS_LTE_acc_enh-Core	0230		F
R2-1814924	CR for triggers for abortion of RRC establishment	Ericsson	Rel-15	38.331	NR_newRAT-Core	0402		F
R2-1814935	Correction to beam failure detection in Stage-2	Rapporteur (Nokia), Qualcomm, Nokia Shanghai Bell	Rel-15	38.300	NR_newRAT	0103		F
R2-1814960	Invalidation of L1 parameter nrofCQIsPerReport	Ericsson	Rel-15	38.331	NR_newRAT-Core	0410		F
R2-1814961	Clarifications on RNA update and CN registration (N023)	Ericsson	Rel-15	38.331	NR_newRAT-Core	0411		F
R2-1814963	CR on Slice Aware Access Control	Nokia, Nokia Shanghai Bell, Huawei, HiSilicon	Rel-15	38.300	NR_newRAT-Core	0028	4	F
R2-1814972	Clarification on ssb-PositionsInBurst	Ericsson	Rel-15	38.331	NR_newRAT-Core	0417		F
R2-1814976	Correction to TDD configuration in SIB1	Ericsson	Rel-15	38.331	NR_newRAT-Core	0420		F
R2-1815068	Corrections to System Information	Huawei, HiSilicon, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0074	1	F
R2-1815075	Correction to SI provision in connected mode	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0434		F
R2-1815090	CR on Update of nas-SecurityParamFromNR according to LS from SA3	Ericsson LM	Rel-15	38.331	NR_newRAT-Core	0439		F
R2-1815124	Correction to missing field descriptions of PLMN identity	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0447		F
R2-1815136	Stage2 Corrections on UE capability	Huawei, HiSilicon, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0075	1	F
R2-1815146	Clarification on physical layer parameters of UE capability	Huawei, HiSilicon	Rel-15	38.306	NR_newRAT-Core	0047		F
R2-1815156	CR on supporting of the ROHC for PDCP duplication	LG Electronics Inc.	Rel-15	36.323	LTE_eV2X-Core	0243	1	F
R2-1815197	Correction on SRB4 for QoE meamsurement collection	Huawei, HiSilicon, Intel Corporation	Rel-15	36.331	LTE_QMC_Streaming-Core	3652		F
R2-1815259	Corrections on P-Max description	CMCC	Rel-15	38.331	NR_newRAT-Core	0457		F
R2-1815287	Correction on flight path information	Huawei, HiSilicon	Rel-15	36.331	LTE_Aerial-Core	3656		F
R2-1815288	Correction on measurement triggering based on number of cells	Huawei, HiSilicon	Rel-15	36.331	LTE_Aerial-Core	3657		F
R2-1815323	Correction on FeLAA in TS 36.321	Huawei, HiSilicon	Rel-15	36.321	LTE_unlic-Core	1380		F
R2-1815324	Correction on FeLAA in TS 36.331	Huawei, HiSilicon	Rel-15	36.331	LTE_unlic-Core	3664		F
R2-1815378	correction on the allowedBC-ListMRDC	Huawei, Hisilicon	Rel-15	38.331	NR_newRAT-Core	0475		F
R2-1815416	eV2X clean-up except for UL and SL prioritization in TS 36 321	LG Electronics	Rel-15	36.321	LTE_eV2X-Core	1357	3	F
R2-1815554	CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation	ZTE Corporation, Sanechips	Rel-14	36.331	TEI14	3672		F
R2-1815556	Correction to FDD/TDD Diff for NR PDCP Capabilities	Qualcomm Incorporated	Rel-15	36.331	NR_newRAT-Core	3674		F
R2-1815588	[E255] CR to 38.331 on corrections related to CGI reporting timer T321	Ericsson	Rel-15	38.331	NR_newRAT-Core	0371	1	F
R2-1815589	CR to 36.331 on addition of CGI reporting timer T321 for NR	Ericsson	Rel-15	36.331	NR_newRAT-Core	3628	1	F
R2-1815611	Correction on SPS configuration for HRLLC	OPPO	Rel-15	36.331	LTE_HRLLC-Core	3572	1	F
R2-1815612	Correction on SPS configuration for HRLLC	OPPO	Rel-15	36.306	LTE_HRLLC-Core	1647	1	F
R2-1815613	Corrections to multiple SPS configurations after sTTI and HRLLC merge	Ericsson, OPPO	Rel-15	36.331	LTE_HRLLC-Core	3676		F
R2-1815616	Corrections on handover for E-UTRA connected to 5GC	Huawei, HiSilicon	Rel-15	36.300	LTE_5GCN_connect-Core	1182	3	F
R2-1815621	SPS for TDD sTTI	Huawei, HiSilicon	Rel-15	36.331	LTE_sTTIandPT	3660	1	F
R2-1815623	correction on power control	Huawei, HiSilicon	Rel-15	36.331	LTE_sTTIandPT	3663	1	F
R2-1815624	Various sTTI corrections	Intel Corporation	Rel-15	36.331	LTE_sTTIandPT	3643	1	F
R2-1815625	Various sTTI corrections	Intel Corporation	Rel-15	36.306	LTE_sTTIandPT	1659	1	F
R2-1815626	CR on 36331 Correction for sTTI	LG Electronics Mobile Research	Rel-15	36.331	LTE_sTTIandPT-Core	3666	1	F
R2-1815627	Correction to MAC PDU subheaders including eLCID	Qualcomm Incorporated	Rel-15	36.321	INOBEARRAN	1366	1	F

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R2-1815630	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	Rel-14	36.331	LTE_UL_CAP_enh-Core	3556	1	F
R2-1815631	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_UL_CAP_enh-Core	3557	1	A
R2-1815632	CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation	ZTE Corporation, Sanechips	Rel-15	36.331	TEI15	3673	1	F
R2-1815634	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	Rel-14	36.321	LTE_VoLTE_ViLTE_enh	1377	1	D
R2-1815636	Introduction of Data Inactivity timer in MAC	Ericsson	Rel-15	38.321	NR_newRAT-Core	0475	1	F
R2-1815638	CR on RRC triggered BWP switching while RACH is ongoing	OPPO	Rel-15	38.321	NR_newRAT-Core	0409	1	F
R2-1815640	CR on bwp-InactivityTimer when PDCCH indicating BWP switching is received	OPPO, Huawei	Rel-15	38.321	NR_newRAT-Core	0406	1	F
R2-1815643	Corrections on CFRA BFR termination	InterDigital	Rel-15	38.321	NR_newRAT-Core	0432	1	F
R2-1815644	Correction for Reconfiguration of CFRA during ongoing RA	Ericsson	Rel-15	38.321	NR_newRAT-Core	0471	1	F
R2-1815647	Introducing PDCP suspend procedure	LG Electronics Inc.	Rel-15	38.323	NR_newRAT-Core	0021	1	F
R2-1815648	Introducing PDCP suspend procedure	LG Electronics Inc.	Rel-15	38.331	NR_newRAT-Core	0448	1	F
R2-1815654	CR for T312 on LTE HetNet mobility	Intel Corporation	Rel-15	36.331	HetNet_eMOB_LTE-Core	3506	3	A
R2-1815655	skipUplinkTxSPS for short TTI option 1	Huawei, HiSilicon	Rel-15	36.331	LTE_sTTIandPT	3661	2	C
R2-1815657	SFN offset for OTDOA	Intel Corporation	Rel-15	36.355	NR_newRAT-Core	0229	1	F
R2-1815659	Capture use of motion information from motion sensors	Nokia, Nokia Shanghai Bell	Rel-15	36.305	LCS_LTE_acc_enh-Core	0077	1	F
R2-1815663	Correction on UE capability	OPPO	Rel-15	36.331	LTE_eV2X-Core	3548	1	F
R2-1815664	Correction on UE capability	OPPO	Rel-15	36.306	LTE_eV2X-Core	1646	1	F
R2-1815667	Correction of UE capability for eV2X in TS 36.306	Qualcomm Incorporated	Rel-15	36.306	LTE_eV2X-Core	1656	1	F
R2-1815669	Addition of the missing agreement regarding MCS configuration for eV2X	Huawei, HiSilicon	Rel-15	36.331	LTE_eV2X-Core	3584	1	F
R2-1815670	UL and SL prioritization in TS 36.321-alt2	LG Electronics	Rel-15	36.321	LTE_eV2X-Core	1383	2	F
R2-1815671	Correction on PDCP for eV2X (Option 1)	OPPO	Rel-15	36.323	LTE_eV2X-Core	0249	1	F
R2-1815673	Correction on V2X sidelink communication in TS 36.321	Huawei, HiSilicon	Rel-15	36.321	LTE_eV2X-Core	1365	1	F
R2-1815675	Correction on V2X sidelink communication in TS 36.300	Huawei, HiSilicon	Rel-15	36.300	LTE_eV2X-Core	1199	1	F
R2-1815676	Correction on MCS for V2X sidelink communication in TS 36.302	Huawei, HiSilicon	Rel-15	36.302	LTE_eV2X-Core	1196	1	F
R2-1815678	Flushing HARQ buffer for carrier reselection	LG Electronics Inc.	Rel-15	36.321	LTE_eV2X-Core	1355	2	F
R2-1815686	Correction for sidelink measurement periodical triggering condition	OPPO	Rel-14	36.331	LTE_V2X-Core	3543	2	F
R2-1815687	Correction for sidelink measurement periodical triggering condition	OPPO	Rel-15	36.331	LTE_V2X-Core	3544	2	A
R2-1815689	Removal of redefinition of MCS-PSSCH-Range-r15	Qualcomm Incorporated	Rel-15	36.331	LTE_eV2X-Core	3675	2	F
R2-1815691	Miscellaneous Corrections to SL PDCP Transmission and Reception	Ericsson	Rel-15	36.323	LTE_eV2X-Core	0254	2	F
R2-1815711	ASN.1 restructuring of NPRACH resource configuration	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-14	36.331	NB_IOTenh-Core	3494	2	F
R2-1815712	ASN.1 restructuring of NPRACH resource configuration	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-15	36.331	NB_IOTenh-Core	3495	2	A
R2-1815713	Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-SCS-TDD-r15 and removing twoHARQ-ProcessesTDD	Huawei, HiSilicon	Rel-15	36.306	NB_IOTenh2-Core	1648	1	F
R2-1815714	Correction to additional SIB1 in eFeNB-IoT	ZTE Corporation, BlackBerry UK Ltd	Rel-15	36.331	NB_IOTenh2-Core	3619	1	F
R2-1815715	Corrections to random access power control for TDD in 36.321	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-15	36.321	NB_IOTenh2-Core	1362	1	F
R2-1815716	Corrections to random access power control for TDD in 36.331	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-15	36.331	NB_IOTenh2-Core	3580	1	F
R2-1815717	Small correction to paging with wake up signal	ZTE Corporation, Ericsson	Rel-15	36.304	LTE_eMTC4-Core, NB_IOTenh2-Core	0741	2	F
R2-1815737	Corrections to EDT in 36.321	Huawei, HiSilicon	Rel-15	36.321	NB_IOTenh2-Core, LTE_eMTC4-Core	1363	1	F

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R2-1815739	Clarification on SI acquisition time enhancements in Rel-15	Ericsson	Rel-15	36.331	LTE_eMTC4-Core	3642	1	F
R2-1815741	Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107)	ZTE Corporation	Rel-15	36.331	LTE_eMTC4-Core	3607	1	F
R2-1815742	Correction on the measurement gaps for dense PRS	Huawei, HiSilicon, Qualcomm Incorporated, Ericsson	Rel-15	36.331	LTE_eMTC4-Core	3680		F
R2-1815743	Missing UE capability introduction for efeMTC	Huawei, HiSilicon	Rel-15	36.306	LTE_eMTC4-Core	1632	2	F
R2-1815746	Correction on fallback cases in EDT	Ericsson	Rel-15	36.321	LTE_eMTC4-Core, NB_IOTenh2-Core	1370	2	F
R2-1815748	Corrections to EDT in 36.331	Huawei, HiSilicon	Rel-15	36.331	NB_IOTenh2-Core, LTE_eMTC4-Core	3582	2	F
R2-1815749	Corrections and clarifications for MO EDT	Ericsson	Rel-15	36.331	NB_IOTenh2-Core, LTE_eMTC4-Core	3605	2	F
R2-1815750	Msg3 buffer handling for EDT in 36.321	Huawei	Rel-15	36.321	NB_IOTenh2-Core, LTE_eMTC4-Core	1384	1	F
R2-1815752	MPDCCH monitoring for receiving HARQ ACK feedback	Nokia, Nokia Shanghai Bell	Rel-15	36.321	LTE_eMTC4-Core	1359	3	F
R2-1815772	Corrections to euCA	Nokia, Nokia Shanghai Bell	Rel-15	36.321	LTE_euCA-Core	1361	1	F
R2-1815774	Corrections on time reference information	Huawei, HiSilicon	Rel-15	36.331	LTE_HRLLC-Core	3654	1	F
R2-1815775	Correction on UE behaviour about referenceSFN	Huawei, HiSilicon	Rel-15	36.331	LTE_HRLLC-Core	3655	1	F
R2-1815777	Correction on definition of PEMAX1, PEMAX2	CMCC	Rel-15	38.304	NR_newRAT-Core	0066	1	F
R2-1815780	Correction to description of PO for default association	Samsung Electronics Co., Ltd	Rel-15	38.304	NR_newRAT-Core	0049	1	F
R2-1815782	Clarification on paging in connected mode	Ericsson	Rel-15	38.331	NR_newRAT-Core	0345	1	F
R2-1815784	Clarification on UDC configuration	CATT, Intel Corporation, Ericsson	Rel-15	36.331	LTE_UDC-Core	3616	1	F
R2-1815785	Corrections on the IDLE state measurement	vivo	Rel-15	36.331	LTE_euCA-Core	3560	2	F
R2-1815786	Correction for E-UTRA connected to 5GC Procedures	OPPO	Rel-15	36.331	LTE_5GCN_connect	3574	1	F
R2-1815787	Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-UTRA/5GC or E-UTRAN	Qualcomm India Pvt Ltd	Rel-15	36.331	LTE_5GCN_connect-Core	3601	1	F
R2-1815789	TS36.331 CR on Open issues on E-UTRA connected to 5GC for INACTIVE	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3588	1	F
R2-1815792	CR for security handling upon handover to eLTE in 36.331	ZTE Corporation, Sanechips	Rel-15	36.331	NR_newRAT-Core	3583	1	F
R2-1815800	Clarification on dynamic grant override configured grant	vivo, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0083	1	F
R2-1815801	Scheduling Request Overview	Rapporteur (Nokia), Ericsson	Rel-15	38.300	NR_newRAT	0088	1	F
R2-1815802	Transport of NAS Messages	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT	0090	1	F
R2-1815803	SON Overview	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT	0091	1	F
R2-1815804	Clarification on basic voice support	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0095	1	F
R2-1815805	Signalling flow for transitions from RRC_INACTIVE to RRC_IDLE	Huawei, HiSilicon, Nokia (Rapporteur)	Rel-15	38.300	NR_newRAT-Core	0087	1	F
R2-1815806	RA triggers	Huawei, HiSilicon, Rapporteur (Nokia), Qualcomm Incorporated	Rel-15	38.300	NR_newRAT-Core	0106	1	F
R2-1815810	Clarification on configured grant timer in 38.331	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0229	1	F
R2-1815813	Removal of restriction on RB removal and addition	NTT DOCOMO INC., Sharp	Rel-15	38.331	NR_newRAT-Core	0476	1	F
R2-1815816	Correction to Default MAC Cell Group configuration	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0445	1	F
R2-1815817	CR to 38331 on ul-DataSplitThreshold for SRB	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0248	1	F
R2-1815818	Clarification of PDCP-Config field descriptions (38.331)	Ericsson	Rel-15	38.331	NR_newRAT-Core	0365	1	F
R2-1815819	Correction to PDCP statusReportRequired	LG Electronics Inc.	Rel-15	38.331	NR_newRAT-Core	0449	1	F
R2-1815820	Clarification on Configuration of	Samsung	Rel-15	38.331	NR_newRAT-Core	0460	1	F

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	multiplePHR for EN-DC and NR-CA	Electronics						
R2-1815822	CR to 38.331 on clarification of guami-Type	Ericsson	Rel-15	38.331	NR_newRAT-Core	0249	1	F
R2-1815825	Clarification on handling of default parameters	Ericsson	Rel-15	38.331	NR_newRAT-Core	0421	1	F
R2-1815828	Correction on conditional presence of PCellOnly	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0469	1	F
R2-1815832	Corrections on re-establishment procedure	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0296	1	F
R2-1815834	CR to 38.331 on the ambiguity of targetCellIdentity in Resume/Reestablishment MAC-I calculation	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0454	1	F
R2-1815835	Handling on security keys for resume procedure (I774)	Intel Corporation, MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0238	1	F
R2-1815836	CR to 38.331 on pendingRNAUpdate setting	Ericsson	Rel-15	38.331	NR_newRAT-Core	0375	2	F
R2-1815838	Handling of Resume Failure	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0179	1	F
R2-1815842	Bandwidth configuration for initial BWP	Ericsson	Rel-15	38.331	NR_newRAT-Core	0502		F
R2-1815846	SSBPositionsInBurst misalignement with RAN1	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0320	1	F
R2-1815847	Introduction of power boosting indicator for pi2BPSK waveform	IITH, IITM, CeWIT, Nokia, Nokia Shanghai Bell, Mediatek	Rel-15	38.331	NR_newRAT-Core	0474	2	B
R2-1815849	Correction to commonControlResourceSet	Ericsson	Rel-15	38.331	NR_newRAT-Core	0418	1	F
R2-1815850	Correction to inter-RAT measurement for NR	Spreadtrum Communications	Rel-15	36.331	NR_newRAT-Core	3577	1	F
R2-1815852	RSRP result in SFTD measurement report	MediaTek Inc.	Rel-15	36.331	NR_newRAT-Core	3602	1	F
R2-1815853	CR for security handling for eLTE in 38.331	ZTE Corporation, Sanechips, Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0236	1	F
R2-1815857	Cleanup on handover to EUTRA procedure	Google Inc.	Rel-15	36.331	NR_newRAT-Core, LTE_5GCN_connect-Core	3600	1	F
R2-1815858	Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-DC (36.300)	Ericsson	Rel-15	36.300	NR_newRAT-Core	1200	2	F
R2-1815859	[E201] CR to 36.331 on handling of mapped GUMMEI/GUAMI at idle mode mobility between 5GS and EPS	Ericsson	Rel-15	36.331	NR_newRAT-Core, LTE_5GCN_connect-Core	3592	1	F
R2-1815860	Some NR SA related corrections	Samsung Telecommunications	Rel-15	36.331	NR_newRAT-Core	3634	1	F
R2-1815863	Introdcution of including EUTRA UE capability for MRDC usage	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3525	2	F
R2-1815866	UE capabilty for IDC mechanism for EN-DC operation	Qualcomm Incorporated	Rel-15	36.331	NR_newRAT-Core	3599	1	F
R2-1815868	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	Rel-13	36.306	LTE_CA_enh_b5C-Core	1649	2	F
R2-1815869	Addition of TDD UL/DL configuration to OTDOA assistance data	Qualcomm Incorporated	Rel-15	36.355	TEI14	0213	2	A
R2-1815870	Correction to BFR procedure	Nokia, Nokia Shanghai Bell	Rel-15	38.321	NR_newRAT	0488	1	F
R2-1815871	Correction of BWP switching when SUL is configured	Huawei, HiSilicon	Rel-15	38.321	NR_newRAT-Core	0452	2	F
R2-1815872	Msg3 handling for swtiching between CBRA to CFRA	Samsung Electronics Co., Ltd	Rel-15	38.321	NR_newRAT-Core	0303	3	F
R2-1815887	Additional UE capabilities for NR standalone	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0291	1	F
R2-1815888	Additional UE capabilities for NR standalone	Qualcomm Incorporated	Rel-15	38.306	NR_newRAT-Core	0035	1	F
R2-1815910	Corrections to the field decriptions of System Information	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0431	1	F
R2-1815911	SIB size limitation [M201]	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0298	1	F
R2-1815912	PDCCH Monitoring Occasions in SI Window_Option 2	Samsung Electronics Co., Ltd	Rel-15	38.331	NR_newRAT-Core	0436	1	F
R2-1815914	SIB1 missing or not scheduled UE behaviour	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0325	1	F
R2-1815915	Corrections to the SIB1 acquisition	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0340	1	F

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	procedure							
R2-1815917	SIBs needed before connection setup	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0330	1	F
R2-1815921	Correction in 38331 for SRS-config	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0388	1	F
R2-1815922	CR for TS38.331 on MIB	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0199	1	F
R2-1815923	CR for TS38.331 on PowerControl-related issues	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0391	1	F
R2-1815925	Correction on SRS-TPC-CommandConfig	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0299	1	F
R2-1815931	RDI handling for data forwarding at handover	Nokia, Nokia Shanghai Bell	Rel-15	38.300	NR_newRAT	0093	1	F
R2-1815934	CR on SI request procedure in TS38.331	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0246	1	F
R2-1815935	SI reception upon handover (RIL#I610, I611)	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0339	1	F
R2-1815937	CR on ssb-ToMeasure in MeasurementTimingConfiguration	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0267	1	F
R2-1815938	ASN.1 correction to fr-InfoListSCG in CG-Config	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0350	1	F
R2-1815939	Missing optionality bit in CG-ConfigInfo	Ericsson, Qualcomm Inc	Rel-15	38.331	NR_newRAT-Core	0412	1	F
R2-1815941	UE context handling during handover to LTE-5GC (36.331)	Ericsson, Google Inc.	Rel-15	36.331	NR_newRAT-Core	3622	1	F
R2-1815942	Correction of frequency band indication in MeasObjectNR	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0379	1	F
R2-1815943	Correction to configuration of measurement object [H349]	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0384	1	F
R2-1815944	A3 and A5 corrections - neighbouring cell definition	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0335	1	F
R2-1815948	CR for introducing PSCell frequency in CG-Config	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0235	1	F
R2-1815949	Correction on system information blocks acquisition	Google Inc.	Rel-15	36.331	LTE_5GCN_connect-Core	3614	1	F
R2-1815950	Correction on Bluetooth and WLAN measurement collection in MDT	Huawei, HiSilicon, Intel Corporation	Rel-15	36.331	LTE_MDT_BT_WLAN-Core	3651	2	F
R2-1815951	Correction on PDCP duplication option 1	Huawei, HiSilicon	Rel-15	36.323	LTE_HRLLC-Core	0255	2	F
R2-1815952	E573 Configuration of SRB1 during Resume	Ericsson	Rel-15	38.331	FS_5G_eval	0396	1	F
R2-1815958	Security for RRC connection release	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0242	1	F
R2-1815959	RRC connection release triggered by upper layers	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0382	1	F
R2-1815961	CR to 38.304 on Release and Redirect in 2-step procedure	Ericsson	Rel-15	38.304	NR_newRAT-Core	0056	1	F
R2-1815962	Correction on CN type indication for Redirection from NR to E-UTRA	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0406	1	F
R2-1815963	Clarification on Counter check procedure	Samsung Research America	Rel-15	38.331	NR_newRAT	0302	1	F
R2-1815964	UE context handling during handover to NR	Ericsson, Google Inc.	Rel-15	38.331	NR_newRAT-Core	0368	1	F
R2-1815965	38.331CR Corrections on UP security activation	OPPO	Rel-15	38.331	NR_newRAT-Core	0213	1	F
R2-1815966	Introducing procedure for reporting RLC failures	Samsung Telecommunications	Rel-15	38.331	NR_newRAT-Core	0376	1	B
R2-1815967	Corrections regarding RLC failure reporting	Samsung Telecommunications	Rel-15	36.331	NR_newRAT-Core, LTE_HRLLC-Core	3629	1	F
R2-1815970	Correction for E-UTRA connected to 5GC Stage-2	OPPO	Rel-15	36.300	LTE_5GCN_connect	1194	1	F
R2-1815971	Clarification on RRC state transition	Google Inc.	Rel-15	36.331	LTE_5GCN_connect-Core	3551	1	F
R2-1815972	Corrections to TS 36.304 for E-UTRA connected to 5GC	Huawei, HiSilicon	Rel-15	36.304	LTE_5GCN_connect-Core	0744	3	F
R2-1815973	Corrections for E-UTRA connected to 5GC	Huawei, HiSilicon	Rel-15	36.331	LTE_5GCN_connect-Core	3653	1	F
R2-1815974	Correction on triggering idle mode measurement	Huawei, HiSilicon	Rel-15	36.331	LTE_euCA-Core	3658	1	F
R2-1815975	Correction to Ambiguous Terminologies with respect to Cell Ranking	Samsung Electronics	Rel-15	38.304	NR_newRAT-Core	0063	1	F
R2-1815976	clarification of mobility state detection criteria	Huawei, Hisilicon	Rel-15	38.304	NR_newRAT-Core	0067	1	F
R2-1815977	Connections on 38.304	OPPO	Rel-15	38.304	NR_newRAT-Core	0051	1	F

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R2-1815978	CR on PDCCH monitoring occasions for paging in TS 38.304	ZTE Corporation, Sanechips	Rel-15	38.304	NR_newRAT-Core	0055	1	F
R2-1815984	Clarification on measObjectNR of SFTD between PCell and PSCell	ZTE Corporation, Sanechips	Rel-15	36.331	NR_newRAT-Core	3678		F
R2-1815986	CR to power ramping (option1)	Fujitsu	Rel-15	38.321	NR_newRAT-Core	0399	4	F
R2-1815992	Remain issue for T302 and T390	CATT	Rel-15	38.331	NR_newRAT-Core	0216	1	F
R2-1815993	CR to 38.331 on stopping T390 and UE related actions	Ericsson	Rel-15	38.331	NR_newRAT-Core	0259	1	F
R2-1816004	Clarification on final suitability check	Huawei, HiSilicon	Rel-15	38.304	NR_newRAT-Core	0062	2	F
R2-1816005	Clarification of Paging Monitoring Occasion	Qualcomm Incorporated	Rel-15	38.304	NR_newRAT-Core	0047	2	F
R2-1816008	Correction to DRB release	Google Inc.	Rel-15	36.331	NR_newRAT-Core	3576	2	F
R2-1816025	CR on timing reference of SMTC upon PSCell addition	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0270	2	F
R2-1816029	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0188	2	F
R2-1816030	Corrections on reestablishment and security procedures	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0243	3	F
R2-1816032	Clarification on B events in EN-DC	Apple	Rel-15	36.331	NR_newRAT-Core	3679	1	F
R2-1816034	SI storing and validity clarification	Nokia, Nokia Shanghai Bell, Samsung	Rel-15	38.331	NR_newRAT-Core	0329	3	F
R2-1816035	CR on UE behaviour upon lack of TAC in SIB1	Nokia, Nokia Shanghai Bell	Rel-15	38.304	NR_newRAT-Core	0074	1	F
R2-1816036	On Demand SI Message Acquisition_option 2 (E160)	Samsung Electronics Co., Ltd	Rel-15	38.331	NR_newRAT-Core	0438	2	F
R2-1816038	Corrections for handover between NR and E-UTRA	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0260	2	F
R2-1816039	Corrections for handover between NR and E-UTRA in TS36.331	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3597	3	F
R2-1816044	CR on PUCCH-ConfigCommon	vivo	Rel-15	38.331	NR_newRAT-Core	0289	2	F
R2-1816047	Correction to full configuration	Google Inc.	Rel-15	38.331	NR_newRAT-Core	0482	1	F
R2-1816049	CORESET#0 configuration when SIB1 is not broadcast	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0503	1	F
R2-1816052	RIL I556, I557, I558 on RB handling when resuming	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0239	2	F
R2-1816056	CR on fallback to the setup procedure	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0273	2	F

237 agreed-in-principle CRs.

Annex F: Email Approvals

One week discussions: Deadline Thursday, 2018-10-18, 23:59 Pacific Time (unless stated)

Please request TDoc numbers for the following email discussions from MCC if not already allocated below

[103bis#01][NR] LS to RAN4 on channel bandwidth (Qualcomm)
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18
=> Approved in R2-1816067

[103bis#02][NR] LS on the search space of cross-carrier scheduling (Vivo)
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18
=> Approved in R2-1816064

[103bis#03][NR] MPS LS to SA1 (Vencore)
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18

=> Approved in R2-1816068

[103bis#04][NR] Late drop UE capabilities (Huawei)
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18
=> Approved in R2-1816066

[103bis#05][NR - IAB] TP on SRB mapping (Samsung)
Agreed TP on SRB mapping options
Intended outcome: Agreed TP
Deadline: Thursday 2018-10-18
=> Reserved in R2-1816062

[103bis#06][NR – IAB] TP on SR and BSR (Intel)
Intended outcome: Agreed TP
Deadline: Thursday 2018-10-18
=> Agreed in R2-1816061

[103bis#07][NR/MIMO] LS to RAN1 and RAN4 on MIMO Layer configuration (MediaTek)
Intended outcome: Approved LS
Deadline: Thursday 2018-10-18
=> Approved in R2-1816065

[103bis#08][eMTC/NB-IoT R16] Capture agreements (Blackberry)
To capture the agreements from the meeting in a document for information.
Intended outcome: Endorsed report
Deadline: Thursday 2018-10-18
=> Endorsed in R2-1816063

Two week discussions: Deadline Thursday, 2018-10-25, 23:59 Pacific Time (unless stated)

Please request TDoc numbers for the following email discussions from MCC if not already allocated below

[103bis#09][NR/Late drop] 37.340 CR (ZTE)
Capture agreements from this meeting
Intended outcome: CR to be submitted to next meeting
Deadline: Thursday 2018-10-25

[103bis#10][NR/Late drop] 38.331 CR (Ericsson)
Create 38.331 CR to introduce the late drop (single CR for all arch options). Also create a set of FFS points that need to be discussed online at the next meeting
Intended outcome: CR and report to next meeting
Deadline: Thursday 2018-10-25

[103bis#11][NR/Late] 36.331 CR (Samsung)
Create 36.331 CR to introduce the late drop (single CR for NGEN-DC and NE-DC options). Also create a set of FFS points that need to be discussed online at the next meeting
Intended outcome: CR and report to next meeting
Deadline: Thursday 2018-10-25

[103bis#12][NR/UE cap SI] UE cap ID signalling options (MediaTek)
Create TP to capture the signalling options available considering the key aspects agreed in the meeting.
Intended outcome: TP to be submitted to next meeting

Deadline: Thursday 2018-10-25

Next meeting discussions: Deadline Thursday, 2018-10-25, 23:59 Pacific Time (unless stated)

TDoc numbers for the following email discussions may be requested via 3GU tool

[103bis#13]LTE] Early implementable features (DOCOMO)
To review the text in the annex to be added to LTE RRC.
Companies that have had CRs agreed for early implementable features during Rel15 to provide initial input to the table
Intended outcome: Agreeable CR to be submitted to the next meeting.
Deadline: Thursday 2018-11-01

[103bis#14][NR] Channel Bandwidth Signalling (Qualcomm)
Discuss and resolve the FFS points from the discussion in the meeting.
Draft a CR to capture the meeting agreements and the FFS points
Intended outcome: CR to the next meeting
Deadline: Thursday 2018-11-01

[103bis#15][NR] Applicability of 38.331 to EN-DC (Huawei)
Intended outcome: Agreeable CR submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#16][NR] Overheating (Huawei)
Progress the content of the overheating assistance information and progress the CR
Intended outcome: Report to next meeting, CR to the next meeting
Deadline: Thursday 2018-11-01

[103bis#17][NR] NR serving cell measurements (Huawei)
Discuss how to address the issues identified in R2-1814162
Intended outcome: Agreeable CR (if needed)
Deadline: Thursday 2018-11-01

[103bis#18][NR] Measurement gaps (Intel)
Conclude how to capture the conditions under which measurement gaps are required.
Intended outcome: Agreeable CR to stage 2.
Deadline: Thursday 2018-11-01

[103bis#19][NR] Sorting of NR cells in measurement reports in LTE (Huawei)
Intended outcome: CR submitted to next
Deadline: Thursday 2018-11-01

[103bis#20][NR] Inter-RAT HO (Huawei)
Conclude how to specify the clean-up of resources, etc in NR on handover to LTE
Intended outcome: CR submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#21][NR] SupportedbandListNR (Ericsson)
Progress discussion of SupportedbandListNR from R2-1814570
Intended outcome: CR submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#22][NR] UE capabilities (DOCOMO/Intel)
Intended outcome: Agreeable CR for 38.331 and 38.306

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Deadline: Thursday 2018-11-01

[103bis#23][NR] Relation of feature sets and band combinations (Ericsson)
Progress the discussion on relation of feature sets and band combinations
Intended outcome: Report to next meeting, and draft CR if possible
Deadline: Thursday 2018-11-01

[103bis#24][NR] SRS switching capability (Huawei)
Discuss potential compromise solutions that could provide some useful information to the network but not at the granularity of per band pair per band combination
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#25][NR] Remaining security issues for MR-DC (Intel)
- Algorithm handling for NG-EN-DC and NE-DC – which algorithm to use, understand any differences, what specification updates are needed for the different options, how to ensure independent evolution of LTE and NR algorithms
- When should DRB-IP reconfiguration be supported (e.g. due DRB IP policy change)
Intended outcome: Report to next meeting and TP for the different options
Deadline: Thursday 2018-11-01

[103bis#26][NR/Late drop] NE DC capability parameters (Huawei)
Identify which parameters introduced for EN-DC are or are not applicable for NE-DC
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#27][NR/Late drop] NR-DC capabilities (Nokia)
Discuss whether to include NR-DC band combination within the UE-MRDC-Capability IE or within the NR SA capabilities
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#28][NR/UE cap SI] UE cap compression TP (Nokia)
Create TP to capture the compression proposal.
Intended outcome: Draft TP submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#29][NR/UE cap SI] UE cap segmentation TP (Ericsson)
Create TP to capture the segmentation proposal and options (RRC, etc).
Intended outcome: Draft TP submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#43][LTE/eLTE] Capture NR agreements (Intel)
Capture the agreements made in NR session which are also applied for eLTE
Intended outcome: 36.331 CR submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#30][NR - IAB] Adaptation layer non-IP or IP (Ericsson)
Intended outcome: Agree on TP for comparison between non-IP-based and IP-based Adapt for architecture 1a
Intended outcome: TP submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#31][NR - IAB] Adaptation layer in MT (Qualcomm)
Intended outcome: TP submitted to next meeting
Deadline: Thursday 2018-11-01

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[103bis#32][NR - IAB] Unified design (Qualcomm)
Intended outcome: attempt to extract a set of limited aspects to help reaching consensus on UP transport of unified design. No new architecture options should be considered.
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#33][NR – NTN] (Thales)
Intended outcome: Capture agreements from this meeting into a TP submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#34][NR - NTN] (Ericsson)
Intended outcome:
1. Definition of cell
2. Clarify scenarios (e.g. whether multiple beams cover the same cell) and List of possible options on SSB modelling
3. What does the UE see (e.g. does the UE need to differentiate between spot beams or just rely on SSBs)
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#35][NR/V2X] V2X agreements (Huawei)
To capture all agreements made this meeting in NR V2X into TR. Expected output is agreeable TP
Intended outcome: Agreeable TP submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#36][NR/V2X] SL broadcast, UP aspects (LG)
To discuss which LTE mechanism/feature to be inherited to NR SL broadcast, UP aspects.
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#37][NR/V2X] NR SL broadcast, CP aspects (Huawei)
To discuss which LTE mechanism/feature to be inherited to NR SL broadcast, CP aspects.
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#38][NR/V2X] SL unicast/groupcast (LG)
To discuss for SL unicast/groupcast, what AS-level information is required to exchange among UEs and/or gNB, and whether we need AS-level connection/RB establishment/configuration or management procedure.
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#39][NR/V2X] e2e delay (Intel)
To capture e2e delay analysis based on R2-1815557 and R2-1813936. Expected output is agreeable TP
Intended outcome: Agreeable TP submitted to next meeting
Deadline: Thursday 2018-11-01

[103bis#40][NR/V2X] RAT selection for SL (ZTE)
To discuss how we perform RAT selection for SL (e.g. based on extension/reuse of TX profile), how we perform Uu/SL interface selection. And to discuss what AS aspects need to be considered if agreed that we need to consider AS-level.
Intended outcome: Report to next meeting
Deadline: Thursday 2018-11-01

[103bis#41][NR/IIoT] Intra-UE prioritization (Nokia)

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Discuss the scenarios and division of work between RAN1 and RAN2. Views from companies to be presented in email discussion.
Intended outcome: Email discussion report
Deadline: Thursday 2018-11-02

[103bis#42][NR/L1] PUCCH resource release (Huawei)
Intended outcome: Email discussion summary and optional CR
Deadline: Thursday 2018-11-01

Annex G: History

Document history		
Date	**TSG RAN WG2 Tdoc**	**Subject**
19.10.2018	-	Draft report v1
10.11.2018		Draft report v2
11.11.2018	R2-1816201	Version submitted for approval

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APPENDIX D

TDoc	Title	Source	TDoc Status	Reservation date	Uploaded
R2-1813500	Agenda for RAN2#103bis	Chairman	approved	2018-09-24 23:24:59	2018-10-06 13:24:23
R2-1813501	RAN2#103 Meeting Report	MCC	approved	2018-09-24 23:24:59	2018-10-07 13:41:02
R2-1813502	LS to 3GPP RAN and 3GPP SA on 5G Indicator Requirements (contact: Sprint)	GSMA 5GSI	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813503	LS on unified access control in RRC_Inactive (C1-185602; contact:	CT1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813504	Reply LS on maximum size of UE Radio Capabilities and maximum Information Element size on network interfaces (C4-	CT4	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813505	LS on Joint ETSI - OSA Workshop: Open Implementations & Standardization (ETSI_CL18_3463; contact: ETSI)	ETSI	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813506	LS on Restriction of 1024QAM CSI reporting (R1-1809609; contact: Nokia)	RAN1	not treated	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813507	LS on UL PRB to DL PRB center offset for TDD NB-IoT (R1-1809681; contact:	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813508	LS on sTTI (R1-1809687; contact: Ericsson)	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813509	LS on HRLLC (R1-1809691; contact:	RAN1	not treated	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813510	Reply LS on termination of contention-free BFR (R1-1809887; contact: MediaTek)	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813511	Reply LS on UE power class and UE capability on SRS carrier switch (R1-	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813512	LS on support of unicast, groupcast, and broadcast (R1-1809907; contact: LGE)	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813513	Reply LS on ssb-PositionsInBurst mismatch in SIB1 and	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813514	LS on density parameter for CSI-RS-ResourceConfigMobility (R1-1809960;	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813515	Reply LS on Further Agreements on Paging Occasions (R1-1809965; contact:	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813516	LS on DCI format 2_3 (R1-1809966;	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813517	Reply LS on PDCCH common search space configurations (R1-1809971;	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813518	LS on K1 Slot Offset (R1-1809982; contact:	RAN1	noted	2018-09-24 23:24:59	2018-09-29 00:18:10
R2-1813519	LS on Text Proposal to TS 38.300 for URLLC (R1-1809991; contact: Ericsson)	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813520	LS on NR-LTE Co-existence (R1-1809992; contact: Intel, LGE)	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813521	LS on the number of CQI reports (R1-	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813522	LS on bandwidth configuration for initial BWP (R1-1810002; contact: MediaTek)	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813523	Reply LS on UE capability for simultaneousTxSUL-NonSUL (R1-	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813524	LS on new UE features list for NR (R1-1810005; contact: NTT DOCOMO)	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813525	LS on cross-carrier scheduling (R1-1810009; contact: NTT DOCOMO)	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813526	LS on higher layer configuration for search space monitoring (R1-1810010; contact: NTT DOCOMO)	RAN1	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813527	Reply LS on maximum size of UE Radio Capabilities and maximum Information Element size on network interfaces (R3-	RAN3	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813528	Reply LS on Issues with AS Release Assistance Indicator (R3-185106; contact:	RAN3	noted	2018-09-24 23:25:00	2018-09-29 00:18:10

R2-1813529	LS on LTE 1RX CRS-IM UE capabilities (R4-1811385; contact: Intel)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813530	Reply LS on gap-assisted serving cell measurement (R4-1811404; contact: Intel)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813531	LS for UE capability of measurement gap for inter-RAT NR measurement not yet configured with EN-DC (R4-1811405;	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813532	Reply LS on Discrepancy on the number of NS values (R4-1811458; contact:	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813533	LS on UE feature list for NR (R4-1811531; contact: NTT DOCOMO)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813534	Reply LS on SRS carrier switching (R4-1811534; contact: Huawei)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813535	LS to RAN2 on removing a sentence related to restriction for intra-band LAA	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813536	LS on SFTD scenarios for late drop (R4-1811714; contact: Ericsson)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813537	LS on the applicability for dense PRS gap patterns (R4-1811737; contact: Huawei)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813538	LS on introduction of UE capability for pi/2 BPSK modulation with power boosting capability (R4-1811788; contact: Indian	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813539	Reply LS on RAN2 progress on ANR (R4-1811851; contact: vivo)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813540	LS on UE feature list for LTE (R4-1811904; contact: NTT DOCOMO)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813541	LS on RAN4 design on channel bandwidth (R4-1811905; contact: Qualcomm)	RAN4	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813542	Reply LS on Return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN	RAN6	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813543	LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell	RAN6	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813544	LS on additional information related to return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (R6-	RAN6	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813545	LS on RAN1 NR UE feature list (RP-182143; contact: NTT DOCOMO)	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813546	LS on EN-DC Power Control (RP-182167;	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813547	LS on NR UE feature list (RP-182173; contact: NTT DOCOMO)	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813548	LS on LTE UE feature list (RP-182174; contact: NTT DOCOMO)	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813549	LS to RAN5 on TM9 FGI bits 103 and 104 (RP-182175; contact: Huawei)	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813550	Reply LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell reselection (RP-182176; contact:	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813551	Regarding LTE LAA channel combinations for 5GHz (RP-182177; contact: Charter	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813552	Reply LS to IEEE 802.11 working group in relation to certain channel combinations for LAA in 5GHz (RP-182178; contact:	RAN	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813553	LS on GAD shape(s) for high accuracy positioning (S2-188891; contact: Nokia)	SA2	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813554	LS on TSN integration in the 5G System (S2-189051; contact: Qualcomm)	SA2	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813555	Reply LS on Bluetooth/WLAN measurement collection in MDT (S3-	SA3	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813556	LS on Using same counter in EDCE5 (S3-182616; contact: Ericsson)	SA3	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813557	Reply LS on inactive security (S3-182640; contact: Ericsson)	SA3	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813558	LS on indications for key synchronization (S3-182668; contact: ZTE)	SA3	noted	2018-09-24 23:25:00	2018-09-29 00:18:10

R2-1813559	Reply LS on Data Analytics in SA WG2 NWDAF (S5-185404; contact: Huawei)	SA5	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813560	LS reply to RAN 3 on L2 measurement (S5-185560; contact: Ericsson)	SA5	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813561	LS reply on L2 measurement (S5-185585; contact: Ericsson)	SA5	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813562	Reply LS on Response LS on adding measurements on average number of total active UEs (S5-185594; contact: Huawei)	SA5	noted	2018-09-24 23:25:00	2018-09-29 00:18:10
R2-1813563	Discussion on target scenarios for NR-	OPPO	not treated	2018-09-25 00:27:09	2018-09-28 06:02:42
R2-1813564	Discussion on resource allocation for NR-	OPPO	not treated	2018-09-25 00:27:09	2018-09-28 06:02:42
R2-1813565	Discussion on sidelink unicast, groupcast and broadcast for NR-V2X	OPPO	not treated	2018-09-25 00:27:09	2018-09-28 06:02:42
R2-1813566	Discussion on Inter-RAT Control for NR-	OPPO	not treated	2018-09-25 00:27:10	2018-09-28 06:02:42
R2-1813567	Discussion on L23 for NR-V2X	OPPO	not treated	2018-09-25 00:27:10	2018-09-28 06:02:42
R2-1813568	Discussion on RAT and interface selection	OPPO	not treated	2018-09-25 00:27:10	2018-09-28 06:02:42
R2-1813569	Correction for sidelink measurement periodical triggering condition	OPPO	revised	2018-09-25 00:27:10	2018-09-28 06:02:42
R2-1813570	Correction for sidelink measurement periodical triggering condition	OPPO	revised	2018-09-25 00:27:18	2018-09-28 06:02:42
R2-1813571	Correction for SPS configuration	OPPO	not pursued	2018-09-25 00:27:19	2018-09-28 06:02:42
R2-1813572	Correction for SPS configuration	OPPO	not pursued	2018-09-25 00:27:19	2018-09-28 06:02:42
R2-1813573	Correction for duplication based on Rel-14	OPPO	agreed	2018-09-25 00:27:20	2018-09-28 06:02:42
R2-1813574	Correction on MCS and TBS table	OPPO	merged	2018-09-25 00:27:21	2018-09-28 06:02:42
R2-1813575	Correction on UE capability	OPPO	revised	2018-09-25 00:27:22	2018-09-28 06:02:42
R2-1813576	Correction on UE capability	OPPO	revised	2018-09-25 00:27:23	2018-09-28 06:02:42
R2-1813577	Summary of [103#42] PDCP operation for	OPPO	not treated	2018-09-25 00:27:23	2018-09-28 06:02:42
R2-1813578	Correction on PDCP for eV2X (Option 1)	OPPO	revised	2018-09-25 00:27:23	2018-09-28 06:02:42
R2-1813579	Correction on PDCP for eV2X (Option 2)	OPPO	not treated	2018-09-25 00:27:24	2018-09-28 06:02:42
R2-1813580	Left issue for SidelinkUEInformation	OPPO	not treated	2018-09-25 00:27:25	2018-09-28 06:02:42
R2-1813581	Correction for SidelinkUEInformation	OPPO	not treated	2018-09-25 00:27:25	2018-09-28 06:02:42
R2-1813582	Correction to UE capability enquiry	Google Inc.	not treated	2018-09-25 01:09:45	2018-09-28 06:30:42
R2-1813583	Clarification on RRC state transition	Google Inc.	revised	2018-09-25 01:16:20	2018-09-28 06:30:42
R2-1813584	Draft LS on sensing and reporting for Mode	Huawei	revised	2018-09-25 01:26:16	2018-09-28 03:51:27
R2-1813585	SR transmission and procedure for NR-U	OPPO	not treated	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813586	Enhancements of 4-steps RACH in NR-U	OPPO	not treated	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813587	Two steps RACH procedure for NR-U	OPPO	not treated	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813588	Configured uplink transmission for NR-U	OPPO	not treated	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813589	BWP switching due to LBT	OPPO	not treated	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813590	DRX operation for NR-U	OPPO	not treated	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813591	System information handling and paging	OPPO	not treated	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813592	Discussion on Cell Selection and System Information Issues for NR-U	OPPO	reserved	2018-09-25 01:37:03	
R2-1813593	DRX inactivity timer considering BWP	OPPO	noted	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813594	Clarification on duplicate delivery of configured downlink assignment and uplink	OPPO	noted	2018-09-25 01:37:03	2018-09-27 15:36:32
R2-1813595	[DRAFT] Reply LS on higher layer configuration for search space monitoring	NTT DOCOMO, INC.	revised	2018-09-25 02:05:51	2018-09-28 06:39:59
R2-1813596	PDCCH configuration for cross carrier scheduling	NTT DOCOMO, INC.	not treated	2018-09-25 02:09:55	2018-09-28 06:39:59
R2-1813597	Power boosting for pi/2 BPSK	NTT DOCOMO, INC.	not treated	2018-09-25 02:13:30	2018-09-28 06:39:59
R2-1813598	CR on termination of contention-free BFR	vivo	not treated	2018-09-25 04:04:34	2018-09-28 06:38:36
R2-1813599	Report of Email Discussion [103#43] Early Implementable Features/CRs	NTT DOCOMO INC.	noted	2018-09-25 04:48:37	2018-09-28 02:30:46
R2-1813600	MR-DC in RRC_INACTIVE State	Qualcomm Incorporated	not treated	2018-09-25 05:40:19	2018-09-27 19:23:55
R2-1813601	Handling of Resume Failure	Qualcomm Incorporated	revised	2018-09-25 05:43:51	2018-09-27 19:23:55

R2-1813602	RNAU without UE context relocation	Qualcomm Incorporated	not treated	2018-09-25 05:47:02	2018-09-27 19:23:55
R2-1813603	Proposed RAN2 work plan on NTN	Thales, Nomor Research GmbH	noted	2018-09-25 06:14:00	2018-09-25 12:31:52
R2-1813604	Architecture implications of supporting TSN in RAN	Qualcomm Incorporated	not treated	2018-09-25 06:16:32	2018-09-27 19:23:55
R2-1813605	CR to RRC connection reestablishment	Google Inc.	not pursued	2018-09-25 06:31:01	2018-09-28 06:30:42
R2-1813606	Correction on BFR operation	Xiaomi Communications	not treated	2018-09-25 06:32:36	2018-09-25 08:11:02
R2-1813607	Draft Reply LS on TSN integration in the 5G System	Qualcomm Incorporated	not treated	2018-09-25 06:34:15	2018-09-27 19:23:55
R2-1813608	Clarification on reconfiguration for EN-DC	Google Inc.	merged	2018-09-25 06:35:19	2018-09-28 06:30:42
R2-1813609	Clarification of Paging Monitoring Occasion	Qualcomm Incorporated	revised	2018-09-25 06:38:38	2018-09-27 19:23:55
R2-1813610	RAN2 Skeleton Report on NTN	Thales, Nomor Research GmbH	revised	2018-09-25 06:38:53	2018-09-25 12:32:16
R2-1813611	Correction to RRC connection resume	Google Inc.	not treated	2018-09-25 06:41:48	2018-09-28 06:30:42
R2-1813612	Correction to reconfiguration procedure	Google Inc.	noted	2018-09-25 06:46:43	2018-09-28 06:30:42
R2-1813613	RAN2 requirements on NTN	Nomor Research GmbH, Thales	not treated	2018-09-25 06:49:26	2018-09-25 12:32:30
R2-1813614	Clarification of PO offset definition	Qualcomm Incorporated	not pursued	2018-09-25 06:59:12	2018-09-27 19:23:55
R2-1813615	Considerations on MAC Control Loops and Timings in Non-Terrestrial Networks (NTN)	Nomor Research GmbH, Thales	noted	2018-09-25 07:02:51	2018-09-25 12:32:44
R2-1813616	Considerations on RLC Control Loops and Timings in Non-Terrestrial Networks (NTN)	Nomor Research GmbH, Thales	not treated	2018-09-25 07:07:41	2018-09-25 12:32:59
R2-1813617	Considerations on PDCP Control Loops and Timings in Non-Terrestrial Networks (NTN)	Nomor Research GmbH, Thales	not treated	2018-09-25 07:11:05	2018-09-25 12:33:10
R2-1813618	Correction to handover preparation (G201)	Google Inc.	not treated	2018-09-25 07:31:53	2018-09-28 06:30:42
R2-1813619	Remaining issues of on-demand SI	Xiaomi Communications	not treated	2018-09-25 07:40:52	2018-09-25 08:11:02
R2-1813620	Uplink SPS Considerations	Gemalto N.V.	not treated	2018-09-25 07:56:17	2018-09-27 07:31:22
R2-1813621	Considerations on PWS valueTag	KDDI Corporation	not treated	2018-09-25 08:05:21	2018-09-28 02:14:38
R2-1813622	Introducing Value Tags for PWS	KDDI Corporation	not treated	2018-09-25 08:12:24	2018-10-04 12:28:39
R2-1813623	Speed dependent cell reselection priority	KDDI Corporation, Kyocera	not treated	2018-09-25 08:14:22	2018-09-28 02:14:38
R2-1813624	On UE behaviour upon going out of service	Samsung	noted	2018-09-25 08:39:45	2018-09-28 03:32:14
R2-1813625	On selecting a new PLMN in	Samsung	not treated	2018-09-25 08:44:55	2018-09-28 03:32:14
R2-1813626	MBB enhancements for reduced interruption time	Samsung	not treated	2018-09-25 08:58:58	2018-09-28 03:48:05
R2-1813627	CR on DRX inactivity timer	OPPO	not treated	2018-09-25 09:13:08	2018-09-27 15:36:32
R2-1813628	CR on bwp-InactivityTimer when PDCCH indicating BWP switching is received	OPPO, Huawei	revised	2018-09-25 09:13:09	2018-09-27 15:36:32
R2-1813629	CR on carrier to use for the Random	OPPO	not pursued	2018-09-25 09:13:10	2018-09-27 15:36:32
R2-1813630	CR on duplicate delivery of configured downlink assignment and uplink grant	OPPO, Huawei	merged	2018-09-25 09:13:18	2018-09-27 15:36:32
R2-1813631	CR on RRC triggered BWP switching	OPPO	revised	2018-09-25 09:13:19	2018-09-27 15:36:32
R2-1813632	CR on description of maxPayloadMinus1 for PUCCH-ResourceSet	OPPO	not pursued	2018-09-25 09:13:19	2018-09-27 15:36:32
R2-1813633	Correction on the handling of measurement gaps for DL SPS	Samsung	merged	2018-09-25 11:19:40	2018-09-27 15:02:12
R2-1813634	Introduction of data inactivity monitoring	Samsung	not treated	2018-09-25 11:21:15	2018-09-27 15:02:12
R2-1813635	PHR and SUL	Samsung	noted	2018-09-25 11:22:42	2018-09-27 15:02:12

R2-1813636	Draft LS to RAN1 on PHR and SUL	Samsung	revised	2018-09-25 11:24:35	2018-09-27 15:02:12
R2-1813637	Correction on the start of the	Samsung	not treated	2018-09-25 11:26:56	2018-09-27 15:02:12
R2-1813638	Miscellaneous corrections	Samsung	revised	2018-09-25 11:29:07	2018-09-27 15:02:12
R2-1813639	LBT types for NR-U	Samsung	not treated	2018-09-25 11:31:27	2018-09-27 15:02:12
R2-1813640	Group BWP switching in unlicensed band	Samsung	not treated	2018-09-25 11:32:54	2018-09-27 15:02:12
R2-1813641	DRX for NR-U	Samsung	not treated	2018-09-25 11:34:16	2018-09-27 15:02:12
R2-1813642	Clarification on the presence of ra-	Samsung	postponed	2018-09-25 11:38:31	2018-09-27 15:02:12
R2-1813643	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	agreed	2018-09-25 14:23:03	2018-09-28 06:55:26
R2-1813644	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	revised	2018-09-25 14:23:07	2018-09-28 06:55:26
R2-1813645	Clarification to no barring configuration for Implicit UAC	Nokia, Nokia Shanghai Bell	agreed	2018-09-25 14:23:08	2018-09-28 06:55:26
R2-1813646	Clarification to no barring configuration for Implicit UAC	Nokia, Nokia Shanghai Bell	not treated	2018-09-25 14:23:09	2018-09-28 06:55:26
R2-1813647	Correction to Access Category and barring config determination for Implicit UAC	Nokia, Nokia Shanghai Bell	agreed	2018-09-25 14:23:10	2018-09-28 06:55:26
R2-1813648	Correction to Access Category and barring config determination for Implicit UAC	Nokia, Nokia Shanghai Bell	not treated	2018-09-25 14:23:11	2018-09-28 06:55:26
R2-1813649	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	revised	2018-09-25 14:23:12	2018-09-28 06:55:26
R2-1813650	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	revised	2018-09-25 14:23:12	2018-09-28 06:55:26
R2-1813651	Discussion on serving cell without	Huawei, HiSilicon	not treated	2018-09-25 14:47:18	2018-09-28 06:56:10
R2-1813652	Draft reply LS on bandwidth configuration	Huawei, HiSilicon	not treated	2018-09-25 14:47:18	2018-09-28 06:56:10
R2-1813653	Signalling of channel bandwidth	Huawei, HiSilicon	not treated	2018-09-25 14:47:18	2018-09-28 06:56:10
R2-1813654	CR for TS38.331 on the signalling of	Huawei, HiSilicon	revised	2018-09-25 14:47:18	2018-09-28 06:56:10
R2-1813655	Remaining issues for option2 for 6-1 UEs	Huawei, HiSilicon	not treated	2018-09-25 14:47:19	2018-09-28 06:56:10
R2-1813656	CR for TS38.331 on option2 for 6-1 UEs	Huawei, HiSilicon	not treated	2018-09-25 14:47:19	2018-09-28 06:56:10
R2-1813657	BWP ID issue	Huawei, HiSilicon	postponed	2018-09-25 14:47:20	2018-09-28 06:56:10
R2-1813658	CR for TS38.331 on BWP ID (option-1)	Huawei, HiSilicon	not treated	2018-09-25 14:47:20	2018-09-28 06:56:10
R2-1813659	CR for TS38.331 on BWP ID (option-2)	Huawei, HiSilicon	not treated	2018-09-25 14:47:21	2018-09-28 06:56:10
R2-1813660	Configuration of first Active BWPs for	Huawei, HiSilicon	not treated	2018-09-25 14:47:22	2018-09-28 06:56:10
R2-1813661	CR for TS38.331 on first Active BWPs for	Huawei, HiSilicon	not pursued	2018-09-25 14:47:22	2018-09-28 06:56:10
R2-1813662	CR for TS38.331 on BWP related	Huawei, HiSilicon	not pursued	2018-09-25 14:47:23	2018-09-28 06:56:10
R2-1813663	CR for TS38.331 on PDCCH configuration	Huawei, HiSilicon	merged	2018-09-25 14:47:24	2018-09-28 06:56:10
R2-1813664	CR for TS38.331 on PUCCH release	Huawei, HiSilicon	not pursued	2018-09-25 14:47:25	2018-09-28 06:56:10
R2-1813665	CR for TS38.331 on MIB	Huawei, HiSilicon	revised	2018-09-25 14:47:26	2018-09-28 06:56:10
R2-1813666	CR for TS38.331 on PDCCH-ConfigSIB	Huawei, HiSilicon	agreed	2018-09-25 14:47:27	2018-09-28 06:56:10
R2-1813667	LPP Barometric Sensor AD Correction	Polaris Wireless	noted	2018-09-25 20:06:24	2018-09-27 21:06:43
R2-1813668	Sensor Assistance Data Elements Correction	Polaris Wireless	postponed	2018-09-25 20:36:56	2018-09-27 21:06:43
R2-1813669	DRAFT LS on Granularity of security protection for DRBs	MediaTek Inc.	not treated	2018-09-25 21:28:36	2018-09-28 03:46:20

R2-1813670	Solutions for handling of large capabilities	MediaTek Inc.	not treated	2018-09-25 21:30:27	2018-09-28 03:46:20
R2-1813671	Analysis of UE capability size	MediaTek Inc.	not treated	2018-09-25 21:32:09	2018-09-28 03:46:20
R2-1813672	Temporary capability restriction for UE	MediaTek Inc.	not treated	2018-09-25 21:34:44	2018-09-28 03:46:20
R2-1813673	UE-assisted resource allocation for NR	MediaTek Inc.	not treated	2018-09-25 21:36:38	2018-09-28 03:46:20
R2-1813674	[M152] Correction on DRB addition/modification to support HO with QoS remapping	MediaTek Inc.	merged	2018-09-26 00:14:06	2018-09-28 05:34:02
R2-1813675	CAPC for data transmission in NR-U	MediaTek Inc.	not treated	2018-09-26 00:16:12	2018-09-28 01:51:07
R2-1813676	Further Clarification on Initial DL BWP	MediaTek Inc.	not treated	2018-09-26 00:17:14	2018-09-28 05:34:02
R2-1813677	Impact of Option 4/7 and NR-NR DC on SDAP specification	MediaTek Inc., Qualcomm Inc., Intel Corporation	noted	2018-09-26 00:19:20	2018-09-28 01:51:07
R2-1813678	Report of email discussion [103#46][NR]	MediaTek Inc.	noted	2018-09-26 00:19:28	2018-09-28 05:34:02
R2-1813679	LBT and CAPC for Uplink Control	MediaTek Inc.	not treated	2018-09-26 01:10:21	2018-09-27 21:07:50
R2-1813680	LBT and CAPC for Random Access in NR-	MediaTek Inc.	not treated	2018-09-26 01:13:57	2018-09-27 21:07:50
R2-1813681	Mobility in NR-U Stand Alone (SA)	MediaTek Inc.	not treated	2018-09-26 01:16:41	2018-09-28 03:17:50
R2-1813682	CFRA for BFR on Initial BWP	Samsung Electronics Co.,	not treated	2018-09-26 01:23:35	2018-09-27 23:10:34
R2-1813683	RA Preamble Selection Procedure	Samsung Electronics Co.,	not treated	2018-09-26 01:27:44	2018-09-27 23:10:34
R2-1813684	Handling Beam Failure Recovery Configuration Update	Samsung Electronics Co.,	not treated	2018-09-26 01:30:13	2018-09-27 23:10:34
R2-1813685	Handling of simultaneous NAS and AS triggered events	Qualcomm Incorporated	not treated	2018-09-26 01:31:44	2018-09-27 19:23:55
R2-1813686	Msg3 handling for swtiching between CBRA to CFRA	Samsung Electronics Co.,	revised	2018-09-26 01:34:33	2018-09-27 23:10:34
R2-1813687	Correction to description of default and non-default association for paging	Samsung Electronics Co.,	not treated	2018-09-26 01:37:39	2018-09-27 23:10:34
R2-1813688	Draft LS on requesting study of system level aspects of NR-U	Qualcomm Incorporated	revised	2018-09-26 01:39:37	2018-09-27 19:23:55
R2-1813689	Correction to description of PO for default association	Samsung Electronics Co.,	revised	2018-09-26 01:40:26	2018-09-27 23:10:34
R2-1813690	Report of Email Discussion [103#55][NR-U] 2-step RACH Model and Initial	Qualcomm Incorporated	revised	2018-09-26 01:42:58	2018-09-30 22:38:36
R2-1813691	SI Message Transmission/Reception in NR-U	Samsung Electronics Co.,	not treated	2018-09-26 01:44:40	2018-09-28 02:21:39
R2-1813692	Mapping between SI Messages and SI Windows in NR-U	Samsung Electronics Co.,	noted	2018-09-26 01:47:00	2018-09-28 02:21:39
R2-1813693	PDCCH Monitoring Occasions in SI Window	Samsung Electronics Co.,	noted	2018-09-26 01:49:54	2018-09-27 23:10:34
R2-1813694	PDCCH Monitoring Occasions in SI Window_Option 1	Samsung Electronics Co.,	not treated	2018-09-26 01:52:50	2018-09-27 23:10:34
R2-1813695	PDCCH Monitoring Occasions in SI Window_Option 2	Samsung Electronics Co.,	revised	2018-09-26 01:54:33	2018-09-27 23:10:34
R2-1813696	On Demand SI Message Acquisition (E160)	Samsung Electronics Co.,	noted	2018-09-26 01:56:41	2018-09-27 23:10:34
R2-1813697	On Demand SI Message Acquisition_option 1 (E160)	Samsung Electronics Co.,	not treated	2018-09-26 01:58:24	2018-09-27 23:10:34
R2-1813698	On Demand SI Message Acquisition_option 2 (E160)	Samsung Electronics Co.,	revised	2018-09-26 02:00:49	2018-09-27 23:10:34
R2-1813699	Handling Cell Reselection during SI Request	Samsung Electronics Co.,	not treated	2018-09-26 02:03:05	2018-09-27 23:10:34
R2-1813700	PLMN Identity selection for SI Validity Check (S016)	Samsung Electronics Co.,	noted	2018-09-26 02:05:45	2018-09-27 23:10:34
R2-1813701	CR on 38.300 for ANR	vivo	not treated	2018-09-26 02:39:55	2018-09-28 04:24:26
R2-1813702	CR on ANR Agreements for 38331	vivo	not treated	2018-09-26 02:40:00	2018-09-28 04:24:26
R2-1813703	CR on ANR Agreements for 36331	vivo	not treated	2018-09-26 02:40:01	2018-09-28 04:24:26
R2-1813704	Autonomous Gap capability for CGI	vivo	noted	2018-09-26 02:40:02	2018-09-28 04:24:26
R2-1813705	[Draft] Reply LS on autonomous gap	vivo	not treated	2018-09-26 02:40:02	2018-09-28 04:24:26
R2-1813706	ANR coordination between MN and SN	vivo	noted	2018-09-26 02:40:02	2018-09-28 04:24:26
R2-1813707	Enable or disable DRB IP without MAC reset	vivo	not treated	2018-09-26 02:40:02	2018-09-28 04:24:26
R2-1813708	Enable or disable DRB IP without MAC reset	vivo	not treated	2018-09-26 02:40:03	2018-09-28 04:24:26

R2-1813709	Selection of Parent for IAB-Node	vivo	withdrawn	2018-09-26 02:40:03	2018-09-28 04:24:26
R2-1813710	consideration of flow control	CATT	not treated	2018-09-26 03:16:13	2018-09-28 06:17:50
R2-1813711	lossless transmission for hbh ARQ	CATT	not treated	2018-09-26 03:17:21	2018-09-28 06:17:50
R2-1813712	Bearer mapping and QoS Handling for IAB	CATT	not treated	2018-09-26 03:20:48	2018-09-28 06:17:50
R2-1813713	MIMO layer configuration	MediaTek Inc.	revised	2018-09-26 04:09:15	2018-09-28 03:50:59
R2-1813714	MIMO layer configuration	MediaTek Inc.	not treated	2018-09-26 04:12:40	2018-09-28 03:51:00
R2-1813715	TP for RACH in NR-U	Qualcomm Incorporated	revised	2018-09-26 04:16:37	2018-09-27 19:24:44
R2-1813716	TP for Idle/Inactive mode in NR-U	Qualcomm Incorporated	endorsed	2018-09-26 04:18:08	2018-09-27 19:24:44
R2-1813717	TP for Mobility and RLM in NR-U	Qualcomm Incorporated	not treated	2018-09-26 04:19:21	2018-09-27 22:48:53
R2-1813718	Configured Grants for NR Unlicensed	Qualcomm Incorporated	not treated	2018-09-26 04:23:44	2018-09-27 19:23:55
R2-1813719	UE-group Wake-up Signal for NB-IoT	MediaTek Inc.	not treated	2018-09-26 04:46:28	2018-09-28 04:56:49
R2-1813720	Inter-RAT Cell Selection and Reselection	MediaTek Inc.	not treated	2018-09-26 04:47:37	2018-09-28 04:56:49
R2-1813721	NB-IoT Inter-RAT Cell Reselection upon	MediaTek Inc.	not treated	2018-09-26 04:48:56	2018-09-28 04:56:49
R2-1813722	[Draft] LS on the total RRC Configuration	MediaTek Inc.	not treated	2018-09-26 05:19:20	2018-09-28 05:34:02
R2-1813723	Consideration on SR enhancement for NR-	ZTE Corporation	not treated	2018-09-26 05:19:57	2018-09-27 17:32:26
R2-1813724	Discussion on paging on NR-U	ZTE Corporation	not treated	2018-09-26 05:22:20	2018-09-27 17:11:29
R2-1813725	Mode 2 resource allocation	CATT	not treated	2018-09-26 05:22:45	2018-09-28 06:17:50
R2-1813726	Consideration on mobility enhancement for	ZTE Corporation	not treated	2018-09-26 05:23:55	2018-09-28 01:17:41
R2-1813727	NR sidelink protocol stack and functions	CATT	not treated	2018-09-26 05:23:56	2018-09-28 06:17:50
R2-1813728	Uu-based sidelink resource allocation	CATT	not treated	2018-09-26 05:25:03	2018-09-28 06:17:50
R2-1813729	Consideration on SRB enhancement for	ZTE Corporation	not treated	2018-09-26 05:25:36	2018-09-27 17:19:59
R2-1813730	Consideration on Uu MAC due to V2X	CATT	not treated	2018-09-26 05:25:48	2018-09-28 06:17:50
R2-1813731	Discovery Procedure and Connection Setup Procedure in NR Sidelink	CATT	not treated	2018-09-26 05:26:41	2018-09-28 06:17:50
R2-1813732	Discussion on Cell reselection on NR-U	ZTE Corporation	noted	2018-09-26 05:26:41	2018-09-27 17:11:53
R2-1813733	MAC PDU format in PC5	CATT	not treated	2018-09-26 05:27:29	2018-09-28 06:17:50
R2-1813734	Measurement in Connected Mode for NR-	ZTE Corporation	not treated	2018-09-26 05:27:42	2018-09-27 17:12:08
R2-1813735	platooning resource allocation	CATT	not treated	2018-09-26 05:28:40	2018-09-28 06:17:50
R2-1813736	Simulation and Evaluation for RLM RLF on	ZTE Corporation	not treated	2018-09-26 05:28:45	2018-09-27 18:44:11
R2-1813737	Uu V2X evaluation and potential	CATT	not treated	2018-09-26 05:29:39	2018-09-28 06:17:50
R2-1813738	QoS Management for NR V2X	CATT	not treated	2018-09-26 05:30:21	2018-09-28 06:17:50
R2-1813739	The impact of multiple operators on cell	ZTE Corporation	not treated	2018-09-26 05:30:22	2018-09-27 19:28:14
R2-1813740	Discussion on RAT/Interface selection	CATT	not treated	2018-09-26 05:30:56	2018-09-28 06:17:50
R2-1813741	considerations on 4-step RACH procedure	ZTE Corporation	not treated	2018-09-26 05:32:02	2018-09-27 19:19:35
R2-1813742	considerations on BWP for NR-U	ZTE Corporation	not treated	2018-09-26 05:33:31	2018-09-27 17:40:36
R2-1813743	considerations on configured grant for NR-	ZTE Corporation	not treated	2018-09-26 05:34:36	2018-09-27 18:38:54
R2-1813744	Normative Annex of CRs Containing Early Implementable Features	NTT DOCOMO INC.	not treated	2018-09-26 05:34:55	2018-09-28 02:30:46
R2-1813745	considerations on RAR window size for	ZTE Corporation	not treated	2018-09-26 05:35:37	2018-09-27 18:40:02
R2-1813746	considerations on PDCP duplication and	ZTE Corporation	not treated	2018-09-26 05:49:39	2018-09-28 15:41:45
R2-1813747	RRC establishment cause in RRC	Sharp	not treated	2018-09-26 06:21:37	2018-09-28 02:31:36
R2-1813748	Clarification on Priority of LCG in BSR	vivo	not pursued	2018-09-26 07:00:02	2018-09-28 04:33:16
R2-1813749	SMTC operation in MAC	vivo	noted	2018-09-26 07:00:10	2018-09-28 04:33:16
R2-1813750	SMTC operation in MAC	vivo	not treated	2018-09-26 07:00:10	2018-09-28 04:33:16
R2-1813751	Clarification on PDCP-configration upon	vivo	not pursued	2018-09-26 07:00:11	2018-09-28 04:33:16
R2-1813752	Move bear type change table to normative	vivo	not treated	2018-09-26 07:00:12	2018-09-28 04:33:16
R2-1813753	Rebuilt new MAC PDU from message 3 buffer by Temporary C-RNTI scheduling	vivo	not treated	2018-09-26 07:00:13	2018-09-28 04:33:16
R2-1813754	Rebuilt new MAC PDU from message 3 buffer by Temporary C-RNTI scheduling	vivo	not treated	2018-09-26 07:00:13	2018-09-28 04:33:16
R2-1813755	Clarification on initial BWP in SIB1	vivo	not treated	2018-09-26 07:00:14	2018-09-28 04:33:16
R2-1813756	Clarification of PDCCH-ConfigCommon.controlResourceSetZero(	vivo	not treated	2018-09-26 07:00:14	2018-09-28 04:33:16
R2-1813757	ControlResourcesetzero configuration by PDCCH-config (option2)	vivo	not treated	2018-09-26 07:00:15	2018-09-28 04:33:16
R2-1813758	Clarification on dynamic grant override configured grant	vivo, Rapporteur (Nokia)	revised	2018-09-26 07:00:16	2018-09-28 04:33:16
R2-1813759	Corrections on the IDLE state	vivo	revised	2018-09-26 07:00:17	2018-09-28 04:33:16
R2-1813760	Corrections on the IDLE state	vivo	revised	2018-09-26 07:00:17	2018-09-28 04:33:16

R2-1813761	Corrections to eCA configurations	Nokia, Nokia Shanghai Bell	postponed	2018-09-26 07:01:55	2018-09-28 06:07:44
R2-1813762	Corrections to eCA configurations	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 07:01:56	2018-09-28 06:07:44
R2-1813763	Corrections to eCA configurations	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 07:01:57	2018-09-28 06:07:44
R2-1813764	Clarification to UE capabilities for CA	Nokia, Nokia Shanghai Bell	postponed	2018-09-26 07:01:58	2018-09-28 06:07:44
R2-1813765	Clarification to UE capabilities for CA	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 07:01:59	2018-09-28 06:07:44
R2-1813766	Clarification to UE capabilities for CA	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 07:02:00	2018-09-28 06:07:44
R2-1813767	Miscellaneous clarifications to euCA	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 07:02:02	2018-09-28 06:07:44
R2-1813768	Corrections to euCA	Nokia, Nokia Shanghai Bell	agreed	2018-09-26 07:02:02	2018-09-28 06:07:44
R2-1813769	Corrections to euCA	Nokia, Nokia Shanghai Bell	revised	2018-09-26 07:02:03	2018-09-28 06:07:44
R2-1813770	Corrections to BWP configuration	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 07:02:05	2018-09-28 06:28:25
R2-1813771	Corrections to BWP configuration	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 07:02:05	2018-09-28 06:28:25
R2-1813772	Correction to rate matching for PCell	Nokia, Nokia Shanghai Bell	revised	2018-09-26 07:02:07	2018-09-28 06:07:44
R2-1813773	Clarifications to NR PDCP capabilities in LTE RRC	Nokia, Nokia Shanghai Bell	withdrawn	2018-09-26 07:02:09	
R2-1813774	Cell re-selection considerations	Gemalto N.V.	not treated	2018-09-26 07:31:04	2018-09-27 07:18:53
R2-1813775	Discussion on additional conditions for camping on non-best cell	Gemalto N.V.	not treated	2018-09-26 07:34:09	2018-09-27 07:18:53
R2-1813776	CR on configuration of initial DL BWP	MediaTek Inc.	not treated	2018-09-26 07:36:14	2018-09-28 06:05:16
R2-1813777	Skeleton TR for Study on optimizations of UE radio capability signalling	MediaTek Inc.	not treated	2018-09-26 07:54:42	2018-09-28 03:59:36
R2-1813778	Discussion on Camped on any cell and Any cell selection for RRC_INACTIVE	OPPO	not treated	2018-09-26 08:17:57	2018-09-28 03:46:57
R2-1813779	Discussion on paging reception failure for RRC_INACTIVE state	OPPO	noted	2018-09-26 08:17:57	2018-09-28 03:46:57
R2-1813780	Discussion on SI change indication for RRC_CONNECTED UE	OPPO	not treated	2018-09-26 08:17:57	2018-09-28 03:46:57
R2-1813781	38.331CR on SI change indication for RRC_CONNECTED UE	OPPO	not treated	2018-09-26 08:17:57	2018-09-28 03:46:57
R2-1813782	Connections on cell reselection for inactive	OPPO	not treated	2018-09-26 08:18:01	2018-09-28 03:46:57
R2-1813783	Draft LS on the SI change indication	OPPO	not treated	2018-09-26 08:18:01	2018-09-28 03:46:57
R2-1813784	Connections on 38.304	OPPO	revised	2018-09-26 08:18:01	2018-09-28 03:46:57
R2-1813785	Discussion on ANR in MR-DC	OPPO	not treated	2018-09-26 08:18:02	2018-09-28 03:46:57
R2-1813786	the security open issues for MR-DC	OPPO	not treated	2018-09-26 08:18:02	2018-09-28 03:46:57
R2-1813787	the SDAP supporting for MR-DC	OPPO	not treated	2018-09-26 08:18:02	2018-09-28 03:46:57
R2-1813788	INACTIVE state supporting for MR-DC with 5GC	OPPO	not treated	2018-09-26 08:18:02	2018-09-28 06:14:41
R2-1813789	37.340 CR on SDAP configuraiton for MR-DC	OPPO	not treated	2018-09-26 08:18:02	2018-09-28 03:46:57
R2-1813790	37.340 Text proposal on security for MR-DC	OPPO	not treated	2018-09-26 08:18:03	2018-09-28 03:46:57
R2-1813791	38.331CR Corrections on UP security	OPPO	revised	2018-09-26 08:18:04	2018-09-28 03:46:57
R2-1813792	User plane consideration for dual-stack architecture	OPPO	not treated	2018-09-26 08:25:10	2018-09-28 05:56:01
R2-1813793	Discussion on target scenarios for Mobility enhancement in E-UTRAN	OPPO	not treated	2018-09-26 08:25:11	2018-09-28 05:56:01
R2-1813794	Discussion on mobility enhancement in LTE	OPPO	not treated	2018-09-26 08:25:11	2018-09-28 05:11:47
R2-1813795	Discussion on the conditional handover	OPPO	not treated	2018-09-26 08:25:11	2018-09-28 05:11:47
R2-1813796	Discussion on the failure handling of handover	OPPO	not treated	2018-09-26 08:25:11	2018-09-28 05:11:47

R2-1813797	Discussion on Capability Coordination for LTE Mobility Enhancements	OPPO	not treated	2018-09-26 08:25:11	2018-09-28 05:11:47
R2-1813798	Correction for sidelink measurement periodical triggering condition	OPPO	withdrawn	2018-09-26 08:25:11	
R2-1813799	Correction for sidelink measurement periodical triggering condition	OPPO	merged	2018-09-26 08:25:13	2018-09-28 05:11:47
R2-1813800	Correction for SPS configuration	OPPO	withdrawn	2018-09-26 08:25:14	
R2-1813801	Correction for SPS configuration	OPPO	revised	2018-09-26 08:25:15	2018-09-28 05:11:47
R2-1813802	Correction for E-UTRA connected to 5GC	OPPO	revised	2018-09-26 08:25:16	2018-09-28 05:11:47
R2-1813803	Correction on SPS configuration for	OPPO	revised	2018-09-26 08:25:16	2018-09-28 05:56:01
R2-1813804	Correction for SidelinkUEInformation	OPPO	reserved	2018-09-26 08:25:17	
R2-1813805	Correction on SPS configuration for	OPPO	revised	2018-09-26 08:25:18	2018-09-28 05:56:01
R2-1813806	Discussion on BWP Switching during SI Update	OPPO	not treated	2018-09-26 08:25:19	2018-09-28 05:11:47
R2-1813807	CR on PPPR threshold	OPPO,Qualcomm Incorporated	merged	2018-09-26 08:25:19	2018-09-28 05:11:47
R2-1813808	Miscellaneous correction on PDCP for	OPPO	reserved	2018-09-26 08:25:21	
R2-1813809	Discussion on RAN2 Aspects about UE Capability Enhancements	OPPO	not treated	2018-09-26 08:25:23	2018-09-28 05:11:47
R2-1813810	Correction for E-UTRA connected to 5GC	OPPO	revised	2018-09-26 08:25:23	2018-09-28 05:11:47
R2-1813811	Scheduling and resource allocation	MediaTek Inc.	not treated	2018-09-26 08:26:12	2018-09-28 04:56:25
R2-1813812	Discussions on RRM in option 4 (NE-DC)	Qualcomm Incorporated	not treated	2018-09-26 08:41:47	2018-09-28 05:58:59
R2-1813813	Discussions on measurement gap configuration and coordination in NR-DC	Qualcomm Incorporated	not treated	2018-09-26 08:45:00	2018-09-28 05:58:59
R2-1813814	ANR Reporting Protocol for NB-IoT	Sequans Communications	noted	2018-09-26 08:46:34	2018-09-27 05:51:35
R2-1813815	Discussion on common framework of measurement gap configuration for NE-	Qualcomm Incorporated	not treated	2018-09-26 08:47:36	2018-09-28 05:58:59
R2-1813816	Inter-RAT selection triggering for NB-IoT	Sequans Communications	not treated	2018-09-26 08:47:47	2018-09-27 05:51:35
R2-1813817	CR to 38.331 on removing FFS of locationInfo	Qualcomm Incorporated	agreed	2018-09-26 08:49:59	2018-09-28 05:58:59
R2-1813818	Correction of BCCH-Config	CATT	not treated	2018-09-26 09:17:43	2018-09-28 06:09:51
R2-1813819	Clarification of RACH resource for DL	CATT	not pursued	2018-09-26 09:17:44	2018-09-28 06:09:51
R2-1813820	Remain issue for T302 and T390	CATT	revised	2018-09-26 09:17:46	2018-09-28 06:09:51
R2-1813821	[C245] Corrrection on barring alleviation	CATT	not treated	2018-09-26 09:17:47	2018-09-28 06:09:51
R2-1813822	Correction on searchSpaceZero and controlResourceSetZero configuration	CATT	not treated	2018-09-26 09:17:47	2018-09-28 06:09:51
R2-1813823	[C204] Handling of timer T380	CATT	agreed	2018-09-26 09:17:48	2018-09-28 06:09:51
R2-1813824	[C206] Handling of subsequent access attempt during resume procedure	CATT	noted	2018-09-26 09:17:49	2018-09-28 06:09:51
R2-1813825	[C206] Alt1 for subsequent access attempt during resume procedure	CATT	not treated	2018-09-26 09:17:49	2018-09-28 06:09:51
R2-1813826	[C206] Alt2 for subsequent access attempt during resume procedure	CATT	not treated	2018-09-26 09:17:50	2018-09-28 06:09:51
R2-1813827	UE power saving of receiving PWS	CATT	not treated	2018-09-26 09:17:51	2018-09-28 06:09:51
R2-1813828	[167] Clean up of on-demand SI request	CATT	not treated	2018-09-26 09:17:52	2018-09-28 06:09:51
R2-1813829	Start time and duration for monitoring on-	CATT	not treated	2018-09-26 09:17:53	2018-09-28 06:09:51
R2-1813830	[C203] CSS configuration for SI acquisition	CATT	revised	2018-09-26 09:17:54	2018-09-28 06:09:51
R2-1813831	Correction on the direction of MeasurementTimingConfiguration	CATT	not treated	2018-09-26 09:17:55	2018-09-28 06:09:51
R2-1813832	UE Behaviors after CG failure with some	CATT	noted	2018-09-26 09:17:56	2018-09-28 06:09:51
R2-1813833	CR for 36.331 on UE behavior after SCG failure with UL SRB in SCG only for EN-	CATT	not treated	2018-09-26 09:17:56	2018-09-28 06:09:51
R2-1813834	CR for 38.331 on UE behavior after SCG failure with UL SRB in SCG only for EN-	CATT	not treated	2018-09-26 09:17:57	2018-09-28 06:09:51
R2-1813835	Correction on UE behavior in inactive state	CATT	revised	2018-09-26 09:17:58	2018-09-28 06:09:51
R2-1813836	Correction on UE behaviour in inactive state upon inter-RAT cell (re)selection	CATT	not pursued	2018-09-26 09:17:59	2018-09-28 06:09:51
R2-1813837	Correction for paging search space	CATT	not treated	2018-09-26 09:18:00	2018-09-28 06:09:51
R2-1813838	Summary of [103#52][NR late drop] MR-DC measurement and gap configuration	CATT	noted	2018-09-26 09:18:01	2018-09-28 06:09:51

R2-1813839	Bearer Type Negotiation for MR-DC with 5GC	CATT	not treated	2018-09-26 09:18:01	2018-09-28 06:09:51
R2-1813840	UE Behaviors after CG Failure in Case of	CATT	not treated	2018-09-26 09:18:01	2018-09-28 06:09:51
R2-1813841	CG failure handling for MR-DC	CATT	not treated	2018-09-26 09:18:01	2018-09-28 06:09:51
R2-1813842	Considerations on Architectural Aspects of NR-U	Charter Communications	not treated	2018-09-26 09:25:27	2018-09-26 22:24:14
R2-1813843	Discussion on SA2 LS	OPPO	not treated	2018-09-26 09:47:45	2018-09-28 05:58:37
R2-1813844	Discussion on UL/DL intra-UE	OPPO	not treated	2018-09-26 09:47:45	2018-09-28 05:58:37
R2-1813845	Abnormal CBRA-BFR trigger in the initial	CATT	not treated	2018-09-26 09:49:09	2018-09-28 05:32:28
R2-1813846	Correction on abnormal CBRA-BFR	CATT	not treated	2018-09-26 09:49:09	2018-09-28 05:32:28
R2-1813847	BWP switching with on-going Random	CATT, OPPO	noted	2018-09-26 09:49:13	2018-09-28 05:32:28
R2-1813848	CR on BWP switching with ongoing RA	CATT, OPPO	not treated	2018-09-26 09:49:13	2018-09-28 05:32:28
R2-1813849	Erroneous Msg3 usage after successful	CATT	not treated	2018-09-26 09:49:14	2018-09-28 05:32:28
R2-1813850	Correction for erroneous Msg3 usage after	CATT	not treated	2018-09-26 09:49:14	2018-09-28 05:32:28
R2-1813851	Msg3 grant overlapping with another UL	CATT	not treated	2018-09-26 09:49:16	2018-09-28 05:32:28
R2-1813852	Correction for Msg3 grant overlapping with	CATT	not treated	2018-09-26 09:49:16	2018-09-28 05:32:28
R2-1813853	More collision issues with HARQ Process	CATT	noted	2018-09-26 09:49:18	2018-09-28 05:32:28
R2-1813854	Correction to fix collisions on HP#0 during Random Access Procedure – Option 1	CATT	not treated	2018-09-26 09:49:18	2018-09-28 05:32:28
R2-1813855	Correction to fix collisions on HP#0 during Random Access Procedure – Option 2	CATT	not treated	2018-09-26 09:49:19	2018-09-28 05:32:28
R2-1813856	Correction on BFR termination criterion	CATT	revised	2018-09-26 09:49:20	2018-09-28 05:32:28
R2-1813857	Scaling between CSI-RS and SSB for BFR	CATT	not treated	2018-09-26 09:49:22	2018-09-28 05:32:28
R2-1813858	Correction on the scaling between CSI-RS	CATT	postponed	2018-09-26 09:49:22	2018-09-28 05:32:28
R2-1813859	MAC impact due to BFR configuration in	CATT	not treated	2018-09-26 09:49:22	2018-09-28 05:32:28
R2-1813860	PH type determination	CATT	not treated	2018-09-26 09:49:23	2018-09-28 05:32:28
R2-1813861	Correction on PH type determination	CATT	not treated	2018-09-26 09:49:23	2018-09-28 05:32:28
R2-1813862	Correction on UL grant handling by HARQ	CATT	not pursued	2018-09-26 09:49:25	2018-09-28 05:32:28
R2-1813863	Correction on PDSCH/PUSCH instance	CATT	not pursued	2018-09-26 09:49:25	2018-09-28 05:32:28
R2-1813864	CR on PCH reception	OPPO	not pursued	2018-09-26 09:49:48	2018-09-28 03:46:57
R2-1813865	Miscellaneous Corrections for 38.321	OPPO	not pursued	2018-09-26 09:49:49	2018-09-28 03:46:57
R2-1813866	Comparison between Bearer Mapping	vivo	withdrawn	2018-09-26 09:51:53	2018-09-28 04:24:26
R2-1813867	Discussion on further downselection of remaining IAB architecture options	Samsung R&D Institute UK	not treated	2018-09-26 10:24:46	2018-09-27 13:26:23
R2-1813868	Solutions for reliable IAB end-to-end transmission for the hop-by-hop RLC ARQ	Samsung R&D Institute UK	not treated	2018-09-26 10:29:54	2018-09-27 13:31:20
R2-1813869	Correction to DRB release	Google Inc.	revised	2018-09-26 10:32:39	2018-09-28 06:30:42
R2-1813870	Correction on Restart of retxBSR-Timer	Spreadtrum Communications	not pursued	2018-09-26 10:33:51	2018-09-27 13:35:08
R2-1813871	Reception of on-demand SI	Spreadtrum Communications	not treated	2018-09-26 10:33:52	2018-09-27 13:35:08
R2-1813872	SI design in NR-U	Spreadtrum Communications	not treated	2018-09-26 10:33:52	2018-09-27 13:35:08
R2-1813873	RRC configuration Message Size Reduction	Spreadtrum Communications	not treated	2018-09-26 10:33:52	2018-09-27 13:35:08
R2-1813874	Random Access Procedure in NR-U	Spreadtrum Communications	not treated	2018-09-26 10:33:52	2018-09-27 13:35:08
R2-1813875	Autonomous Uplink Transmission in NR-U	Spreadtrum Communications	not treated	2018-09-26 10:33:52	2018-09-27 13:35:08
R2-1813876	Corrections on DRX Value Calculation in Paging	Spreadtrum Communications	not treated	2018-09-26 10:33:52	2018-09-27 13:35:08
R2-1813877	Correction to inter-RAT measurement for NR	Spreadtrum Communications	revised	2018-09-26 10:33:52	2018-09-27 13:35:08
R2-1813878	Miscellaneous corrections for 38.331	Spreadtrum Communications	not treated	2018-09-26 10:33:53	2018-09-27 13:35:08
R2-1813879	Overview of sidelink unicast and groupcast support for NR V2X	Spreadtrum Communications	withdrawn	2018-09-26 10:33:54	
R2-1813880	Considerations on NR V2X QoS management	Spreadtrum Communications	not treated	2018-09-26 10:33:54	2018-09-28 06:58:33

R2-1813881	Overview of NTN impacts to RAN2	Spreadtrum Communications	not treated	2018-09-26 10:33:54	2018-09-28 01:48:16
R2-1813882	Clarification on capabilities transferring	Google Inc.	agreed	2018-09-26 10:39:44	2018-09-28 06:30:42
R2-1813883	TP for TR 38.874 on L2 structures enabling one-to-one mapping between UE bearers	Samsung R&D Institute UK	not treated	2018-09-26 10:40:53	2018-09-27 13:35:46
R2-1813884	Clarifications to NR PDCP capabilities in LTE RRC	Nokia, Nokia Shanghai Bell	not pursued	2018-09-26 10:46:37	2018-09-28 06:07:44
R2-1813885	PDCCH monitoring under HD FDD and flexible UL DL configuration	Huawei, HiSilicon	noted	2018-09-26 11:12:51	2018-09-28 06:40:32
R2-1813886	Beam failure detection in DRX	Huawei, HiSilicon	noted	2018-09-26 11:12:51	2018-09-28 06:40:32
R2-1813887	Long or short DRX cycle	Huawei, HiSilicon	noted	2018-09-26 11:12:51	2018-09-28 06:40:32
R2-1813888	Further consideration on determination of	Huawei, HiSilicon	not treated	2018-09-26 11:12:51	2018-09-28 06:40:32
R2-1813889	Correction to determination of PH value	Huawei, HiSilicon	not treated	2018-09-26 11:12:51	2018-09-28 06:40:32
R2-1813890	Considerations on architecture and deployment scenarios of NTN	Huawei, HiSilicon	not treated	2018-09-26 11:12:53	2018-09-28 06:40:32
R2-1813891	Consideration on the impact of rapid	Huawei, HiSilicon	noted	2018-09-26 11:12:53	2018-09-28 06:40:32
R2-1813892	Consideration on the impact of high	Huawei, HiSilicon	noted	2018-09-26 11:12:53	2018-09-28 06:40:32
R2-1813893	Clarification on configured grant timer in	Huawei, HiSilicon	revised	2018-09-26 11:12:53	2018-09-28 06:40:32
R2-1813894	Discussion on the value of HARQ-ACK	Huawei, HiSilicon	postponed	2018-09-26 11:40:43	2018-09-28 06:44:37
R2-1813895	ASN.1 restructuring of NPRACH resource	Huawei, HiSilicon	revised	2018-09-26 11:40:43	2018-09-28 06:44:37
R2-1813896	ASN.1 restructuring of NPRACH resource	Huawei, HiSilicon	revised	2018-09-26 11:40:44	2018-09-28 06:44:37
R2-1813897	Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-	Huawei, HiSilicon	revised	2018-09-26 11:40:45	2018-09-28 06:44:37
R2-1813898	Clarification of features not supported in	Huawei, HiSilicon	agreed	2018-09-26 11:40:46	2018-09-28 06:44:37
R2-1813899	Corrections to random access power control for TDD in 36.321	Huawei, HiSilicon	revised	2018-09-26 11:40:48	2018-09-28 06:44:37
R2-1813900	Corrections to random access power control for TDD in 36.331	Huawei, HiSilicon	revised	2018-09-26 11:40:49	2018-09-28 06:44:37
R2-1813901	Miscellaneous corrections and cleanup for	Huawei, HiSilicon	postponed	2018-09-26 11:40:50	2018-09-28 06:44:37
R2-1813902	Introduction of TDD subframeAssignment	Huawei, HiSilicon	postponed	2018-09-26 11:40:51	2018-09-28 06:44:37
R2-1813903	Additional enhancements for NB-IoT	Huawei, HiSilicon	noted	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813904	Discussion on RACH and RLF report	Huawei, HiSilicon	not treated	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813905	Discussion on ANR report	Huawei, HiSilicon	not treated	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813906	Support of Quality report in Msg3 for non-	Huawei, HiSilicon	not treated	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813907	Presence of NRS on a non-anchor carrier	Huawei, HiSilicon	not treated	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813908	Discussion on idle mode inter-RAT cell	Huawei, HiSilicon	not treated	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813909	Discussion on remaining issues of EDT in TS 36.331	Huawei, HiSilicon	noted	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813910	Corrections to EDT in 36.331	Huawei, HiSilicon	revised	2018-09-26 11:40:52	2018-09-28 07:00:45
R2-1813911	Remaining MAC issues on EDT	Huawei, HiSilicon	noted	2018-09-26 11:40:53	2018-09-28 07:00:45
R2-1813912	Corrections to EDT in 36.321	Huawei, HiSilicon	revised	2018-09-26 11:40:53	2018-09-28 07:00:45
R2-1813913	Removal of duplicate rel-15 NB-IoT/eMTC capabilities and introducing TDD-FDD differentiation for WUS capabilities in	Huawei, HiSilicon	agreed	2018-09-26 11:40:54	2018-09-28 07:00:45
R2-1813914	Early DL data transmission	Huawei, HiSilicon	noted	2018-09-26 11:40:55	2018-09-28 07:00:46
R2-1813915	UE-Group based Wake-up signal	Huawei, HiSilicon	noted	2018-09-26 11:40:55	2018-09-28 07:00:46
R2-1813916	Uplink transmission in preconfigured resource	Huawei, HiSilicon	not treated	2018-09-26 11:40:55	2018-09-28 07:00:46
R2-1813917	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	revised	2018-09-26 11:49:40	2018-09-28 06:07:44
R2-1813918	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 11:49:41	2018-09-28 06:07:44
R2-1813919	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 11:49:42	2018-09-28 06:07:44
R2-1813920	NR V2X scenario for PDCP duplication	vivo	not treated	2018-09-26 11:55:32	2018-09-28 05:40:36
R2-1813921	Sidelink unicast in NR	vivo	not treated	2018-09-26 11:55:32	2018-09-28 06:39:38
R2-1813922	Consideration on PC5 L2 protocol design	vivo	not treated	2018-09-26 11:55:32	2018-09-28 05:40:36
R2-1813923	Consideration on PC5 L3 protocol design	vivo	not treated	2018-09-26 11:55:32	2018-09-28 05:40:36
R2-1813924	Discussion on resource allocation	vivo	not treated	2018-09-26 11:55:32	2018-09-28 05:40:36
R2-1813925	Latency reduction for mode 1 and mode 2	vivo	not treated	2018-09-26 11:55:32	2018-09-28 05:40:36

R2-1813926	Communication range for NR V2X	vivo	not treated	2018-09-26 11:55:32	2018-09-28 05:40:36
R2-1813927	Discussion on RAN1 LS on support of unicast, groupcast, and broadcast	vivo	not treated	2018-09-26 11:55:32	2018-09-28 06:39:38
R2-1813928	NR V2X Resource Allocation Aspects	Fraunhofer HHI, Fraunhofer IIS	not treated	2018-09-26 13:43:17	2018-09-27 16:59:28
R2-1813929	QoS Management for NR V2X	Fraunhofer HHI, Fraunhofer IIS	not treated	2018-09-26 13:44:51	2018-09-27 16:59:53
R2-1813930	RRC processing delay for BWP switching	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 14:02:29	2018-09-28 06:07:44
R2-1813931	Introduction of processing delay requirements for RCCReconfiguration	Nokia, Nokia Shanghai Bell	not treated	2018-09-26 14:02:29	2018-09-28 06:07:44
R2-1813932	Support of unicast, groupcast and	Huawei, HiSilicon	not treated	2018-09-26 14:32:21	2018-09-28 04:06:54
R2-1813933	Scenarios for NR V2X SL communication	Huawei, HiSilicon	noted	2018-09-26 14:32:21	2018-09-28 04:06:54
R2-1813934	Discussion on RAT/interface selection	Huawei, HiSilicon	not treated	2018-09-26 14:32:21	2018-09-28 04:06:54
R2-1813935	QoS support for NR V2X	Huawei, HiSilicon	not treated	2018-09-26 14:32:21	2018-09-28 04:06:54
R2-1813936	Uu enhancements for NR V2X	Huawei, HiSilicon	not treated	2018-09-26 14:32:21	2018-09-28 04:06:54
R2-1813937	Consideration on HARQ ARQ procedure under RRC based BWP switch	ZTE Corporation, Sanechips	noted	2018-09-26 14:36:47	2018-09-27 15:12:49
R2-1813938	Clarification on HARQ ARQ procedure under RRC based BWP switch	ZTE Corporation, Sanechips	not pursued	2018-09-26 14:36:47	2018-09-27 15:12:49
R2-1813939	CR for ServingCellConfigCommon in 38.331	ZTE Corporation, Sanechips	not treated	2018-09-26 14:36:51	2018-09-27 15:12:49
R2-1813940	Further clarification on single BWP operation(Option2)	ZTE Corporation, Sanechips	not treated	2018-09-26 14:36:52	2018-09-27 15:12:49
R2-1813941	Correction on field description of n-TimingAdvanceOffset	ZTE Corporation, Sanechips	not pursued	2018-09-26 14:36:52	2018-09-27 15:12:49
R2-1813942	Introduction of cell level rate match parameters in servingCellConfig	ZTE Corporation, Sanechips	revised	2018-09-26 14:36:53	2018-09-27 15:12:49
R2-1813943	Further clarification on SFTD measurement	ZTE Corporation, Sanechips	noted	2018-09-26 14:36:54	2018-09-27 15:12:49
R2-1813944	CR for introducing PSCell frequency in CG-Config	ZTE Corporation, Sanechips	revised	2018-09-26 14:36:54	2018-09-27 15:12:49
R2-1813945	Further consideration on SCG Reconfiguration for RRC_INACTIVE	ZTE Corporation, Sanechips	not treated	2018-09-26 14:36:55	2018-09-28 01:27:49
R2-1813946	Discussion on FR2 gap configuration for NR-DC	ZTE Corporation, Sanechips	not treated	2018-09-26 14:36:55	2018-09-27 15:12:49
R2-1813947	Discussion on the mobility for Non Terrestrial Network	ZTE Corporation, Sanechips	not treated	2018-09-26 14:36:55	2018-09-27 15:12:49
R2-1813948	TP on mobility aspect for Non Terrestrial Network	ZTE Corporation, Sanechips	not treated	2018-09-26 14:36:55	2018-09-27 15:12:49
R2-1813949	CR for security handling upon handover to eLTE in 36.331	ZTE Corporation, Sanechips	revised	2018-09-26 14:36:55	2018-09-27 15:12:49
R2-1813950	CR for security handling upon handover to eLTE in 38.331	ZTE Corporation, Sanechips	revised	2018-09-26 14:36:56	2018-09-27 15:12:49
R2-1813951	Addition of the missing agreement regarding MCS configuration for eV2X	Huawei, HiSilicon	revised	2018-09-26 14:46:15	2018-09-28 03:51:27
R2-1813952	Correction on inappropriate resource reselection behavior in TS 36.321	Huawei, HiSilicon	postponed	2018-09-26 14:46:15	2018-09-28 03:51:27
R2-1813953	Correction on MCS for V2X sidelink communication in TS 36.302	Huawei, HiSilicon	revised	2018-09-26 14:46:16	2018-09-28 03:51:27
R2-1813954	Correction on transmission format	Huawei, HiSilicon	revised	2018-09-26 14:46:17	2018-09-28 03:51:27
R2-1813955	Correction on MCS for V2X sidelink communication in TS 36.300	Huawei, HiSilicon	withdrawn	2018-09-26 14:46:18	
R2-1813956	Update description of consecutive precoders used for NSSS	Qualcomm Incorporated	agreed	2018-09-26 14:54:19	2018-09-27 20:23:53
R2-1813957	Scheduling of multiple DL/UL transport blocks	Qualcomm Incorporated	noted	2018-09-26 14:54:20	2018-09-27 20:23:53
R2-1813958	Support of ETWS/CMAS by non-BL UE operating in CE mode	Qualcomm Incorporated	not treated	2018-09-26 14:54:20	2018-09-27 20:23:53
R2-1813959	Downlink channel quality reporting in MSG3 for eMTC	Qualcomm Incorporated	not treated	2018-09-26 14:54:20	2018-09-27 20:23:53
R2-1813960	UE grouping on wake-up signal channel	Qualcomm Incorporated	not treated	2018-09-26 14:54:20	2018-09-27 20:23:53

R2-1813961	Channel quality reporting for non-anchor carriers	Qualcomm Incorporated	not treated	2018-09-26 14:54:20	2018-09-27 20:23:53
R2-1813962	Non-anchor carrier measurements for RRM	Qualcomm Incorporated	not treated	2018-09-26 14:54:20	2018-09-27 20:23:53
R2-1813963	Correction to PUCCH spatial relation Activation Deactivation MAC CE	Huawei, HiSilicon	not pursued	2018-09-26 14:56:01	2018-09-28 03:51:27
R2-1813964	Enhancements to the RACH procedure for	MediaTek Inc.	not treated	2018-09-26 15:54:41	2018-09-27 13:52:54
R2-1813965	Further considerations on 2-step RACH	MediaTek Inc.	not treated	2018-09-26 15:56:17	2018-09-27 13:52:54
R2-1813966	Configured grant enhancements for NR-U	MediaTek Inc.	not treated	2018-09-26 15:57:26	2018-09-27 13:52:54
R2-1813967	TSN Interworking in 5G System	MediaTek Inc.	noted	2018-09-26 15:59:23	2018-09-27 13:52:54
R2-1813968	Handling on simultaneously triggered	Intel Corporation	agreed	2018-09-26 16:08:41	2018-09-28 06:09:12
R2-1813969	Handling out-of-coverage during	Intel Corporation	not treated	2018-09-26 16:08:43	2018-09-28 06:09:12
R2-1813970	Handling on security keys for resume procedure (I774)	Intel Corporation, MediaTek Inc.	revised	2018-09-26 16:08:43	2018-09-28 06:09:12
R2-1813971	RIL I556, I557, I558 on RB handling when	Intel Corporation	revised	2018-09-26 16:08:44	2018-09-28 06:09:12
R2-1813972	Handling on T302	Intel Corporation	noted	2018-09-26 16:08:45	2018-09-28 06:09:12
R2-1813973	RNAU without UE context relocation	Intel Corporation	not treated	2018-09-26 16:08:45	2018-09-28 06:09:12
R2-1813974	Miscellaneous corrections on E-UTRA connected to 5GCN	Intel Corporation	agreed	2018-09-26 16:08:45	2018-09-28 06:09:12
R2-1813975	Open issues on E-UTRA connected to 5GC for INACTIVE	Intel Corporation	noted	2018-09-26 16:08:46	2018-09-28 06:09:12
R2-1813976	Open issues on E-UTRA connected to 5GC for UAC	Intel Corporation	agreed	2018-09-26 16:08:46	2018-09-28 06:09:12
R2-1813977	TS36.331 CR on Open issues on E-UTRA connected to 5GC for INACTIVE	Intel Corporation	revised	2018-09-26 16:08:47	2018-09-28 06:09:12
R2-1813978	email discussion report on 103#44	Intel Corporation	noted	2018-09-26 16:08:48	2018-09-28 06:09:12
R2-1813979	TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corporation	revised	2018-09-26 16:08:48	2018-09-28 06:09:12
R2-1813980	TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corporation	withdrawn	2018-09-26 16:08:48	
R2-1813981	Security handling on inter RAT HO	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813982	Analysis of options for Adaptation layer	Intel Corporation	noted	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813983	Downlink Flow Control and Congestion	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813984	Uplink Flow Control and Congestion Control for IAB	Intel Corporation, Convida Wireless	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813985	si-BroadcastStatus of SI in multi-beam	Intel Corporation	noted	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813986	Issues on SCG Failure measurement reporting	Intel Corporation	noted	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813987	Random access procedure for NR-u	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813988	2-Step RA for licensed and unlicensed	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813989	RLM/RLF for NR-u	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813990	Integrity protection of DRBs in MR-DC	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813991	LTE RRC configuration for NE-DC	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813992	RRC reconfiguration structure for NR-DC	Intel Corporation	noted	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813993	[RIL I861, I655] CR for Signalling only	Intel Corporation	not treated	2018-09-26 16:08:49	2018-09-28 06:09:12
R2-1813994	[RIL: I873] Inter-node coordination for	Intel Corporation	postponed	2018-09-26 16:08:50	2018-09-28 06:09:12
R2-1813995	[RIL: I873] Inter-node coordination for	Intel Corporation	postponed	2018-09-26 16:08:51	2018-09-28 06:09:12
R2-1813996	RRC processing delay in NR	Intel Corporation	not treated	2018-09-26 16:08:51	2018-09-28 06:09:12
R2-1813997	Correction to termination of contention-free	Intel Corporation	not treated	2018-09-26 16:08:51	2018-09-28 06:09:12
R2-1813998	Correction on UL grant mismatch for switch between CBRA and CFRA	Intel Corporation	noted	2018-09-26 16:08:52	2018-09-28 06:09:12
R2-1813999	Security for RRC connection release	Intel Corporation	not treated	2018-09-26 16:08:53	2018-09-28 06:09:12
R2-1814000	Security for RRC connection release	Intel Corporation	revised	2018-09-26 16:08:53	2018-09-28 06:09:12
R2-1814001	Corrections on reestablishment and	Intel Corporation	revised	2018-09-26 16:08:54	2018-09-28 06:09:12
R2-1814002	Security algorithm configuration for RBs in	Intel Corporation	not treated	2018-09-26 16:08:55	2018-09-28 06:09:12
R2-1814003	SFN offset for OTDOA	Intel Corporation	revised	2018-09-26 16:08:55	2018-09-28 06:09:12
R2-1814004	RIL I118 on release case to upper layers for CN paging for a UE in	Intel Corporation	not treated	2018-09-26 16:08:55	2018-09-28 06:09:12
R2-1814005	Corrections on CFRA BFR termination	InterDigital	revised	2018-09-26 16:15:32	2018-09-27 23:03:48
R2-1814006	Paging procedure in NR-U	InterDigital	not treated	2018-09-26 16:15:33	2018-09-28 02:12:12
R2-1814007	Random access in NR-U	InterDigital	not treated	2018-09-26 16:15:33	2018-09-27 23:03:48
R2-1814008	2-step RA procedure	InterDigital	not treated	2018-09-26 16:15:33	2018-09-27 23:03:48
R2-1814009	SR and BSR in NR-U	InterDigital	not treated	2018-09-26 16:15:33	2018-09-27 23:03:48
R2-1814010	Idle/INACTIVE mobility for NR-U	InterDigital	not treated	2018-09-26 16:16:44	2018-09-28 00:58:21

R2-1814011	RLM/RLF for NR-U	InterDigital	not treated	2018-09-26 16:16:44	2018-09-28 00:58:21
R2-1814012	Mobility for NR-U	InterDigital	reserved	2018-09-26 16:16:44	
R2-1814013	RRM measurements for NR-U	InterDigital	not treated	2018-09-26 16:16:44	2018-09-28 00:58:21
R2-1814014	Conditional handover for LTE	InterDigital	not treated	2018-09-26 16:16:44	2018-09-28 00:58:21
R2-1814015	Support for Unicast and Groupcast in NR	InterDigital	not treated	2018-09-26 16:17:21	2018-09-28 01:54:46
R2-1814016	Resource Allocation Features to Support NR V2X Requirements	InterDigital	not treated	2018-09-26 16:17:21	2018-09-28 01:55:18
R2-1814017	Resource Allocation in Support of Unicast	InterDigital	not treated	2018-09-26 16:17:21	2018-09-28 01:55:43
R2-1814018	QoS Management for NR V2X	InterDigital	not treated	2018-09-26 16:17:21	2018-09-28 01:56:09
R2-1814019	RAT Selection for NR V2X	InterDigital	not treated	2018-09-26 16:17:21	2018-09-28 01:56:31
R2-1814020	Draft LS on Support for Unicast and	InterDigital	not treated	2018-09-26 16:17:21	2018-09-28 01:57:14
R2-1814021	Summary of [103#50][NR late drop] - MR-DC configuration in INACTIVE	InterDigital	noted	2018-09-26 16:17:21	2018-09-28 01:57:41
R2-1814022	DRX in NR-U	InterDigital	not treated	2018-09-26 16:18:20	2018-09-28 01:18:46
R2-1814023	Configured Grants in NR-U	InterDigital	withdrawn	2018-09-26 16:18:20	
R2-1814024	Summary of [103#56][NR-U] Connected Mode Mobility (InterDigital)	InterDigital	revised	2018-09-26 16:18:20	2018-10-03 21:33:25
R2-1814025	TP to TR38.889 v0.1.0 for Connected	InterDigital	not treated	2018-09-26 16:18:20	2018-10-03 21:33:25
R2-1814026	LCP enhancements for URLLC	InterDigital	not treated	2018-09-26 16:18:20	2018-09-28 01:18:46
R2-1814027	Intra-UE prioritization	InterDigital	not treated	2018-09-26 16:18:20	2018-09-28 01:18:46
R2-1814028	Correction on the field description for BCCH-Config in TS38.331	ZTE Corporation, Sanechips	not pursued	2018-09-26 16:54:41	2018-09-27 21:29:22
R2-1814029	CR on SI request procedure in TS38.331	ZTE Corporation, Sanechips	revised	2018-09-26 16:54:46	2018-09-27 21:29:22
R2-1814030	CR on PDCCH monitoring occasions for paging in TS 38.304	ZTE Corporation, Sanechips	revised	2018-09-26 16:54:47	2018-09-27 21:29:22
R2-1814031	Challenge on the paging performance in NTN	ZTE Corporation, Sanechips	not treated	2018-09-26 16:54:48	2018-09-27 21:29:22
R2-1814032	Msg1 payload contents for 2-step RACH	ZTE Corporation, Sanechips	not treated	2018-09-26 16:54:48	2018-09-27 21:29:22
R2-1814033	draft LS to RAN1 on payload size for Msg1 using 2-step RACH	ZTE Corporation, Sanechips	not treated	2018-09-26 16:54:48	2018-09-27 21:29:22
R2-1814034	Msg2 payload contents for 2-step RACH	ZTE Corporation, Sanechips	not treated	2018-09-26 16:54:48	2018-09-27 21:29:22
R2-1814035	Cell reselection during on-demand system information acquisition (RIL 660)	ZTE Corporation, Sanechips	not treated	2018-09-26 16:54:48	2018-09-27 21:29:22
R2-1814036	CR for Cell reselection during on-demand system information acquisition (RIL660)	ZTE Corporation, Sanechips	not treated	2018-09-26 16:54:48	2018-09-27 21:29:22
R2-1814037	MT-initiated EDT	Qualcomm Incorporated	noted	2018-09-26 16:57:35	2018-09-28 04:30:14
R2-1814038	Remaining Considerations on the behavior of the bwp-InactiveTimer	ZTE Corporation, Sanechips	not treated	2018-09-26 17:03:31	2018-09-27 15:36:23
R2-1814039	CR to 38.321 on bwp-InactiveTimer	ZTE Corporation, Sanechips	not treated	2018-09-26 17:03:31	2018-09-27 15:36:23
R2-1814040	CR to 38.321 on configured UL grant in TDD mode	ZTE Corporation, Sanechips	not pursued	2018-09-26 17:03:32	2018-09-27 15:36:23
R2-1814041	Consideration on the RA triggered BWP swtich in case SUL is configured	ZTE Corporation, Sanechips	not treated	2018-09-26 17:03:34	2018-09-27 15:36:23
R2-1814042	CR to the RA triggered BWP swtich in case SUL is configured	ZTE Corporation, Sanechips	not treated	2018-09-26 17:03:34	2018-09-27 15:36:23
R2-1814043	CR to the RA triggered BWP swtich in case SUL is configured	ZTE Corporation, Sanechips	not treated	2018-09-26 17:03:35	2018-09-27 15:36:23
R2-1814044	Discussion on the ambiguity in Msg2 reception	ZTE Corporation, Sanechips	noted	2018-09-26 17:03:36	2018-09-27 15:36:23
R2-1814045	CR to 38331 on ul-DataSplitThreshold for SRB	ZTE Corporation, Sanechips	revised	2018-09-26 17:03:36	2018-09-27 15:36:23
R2-1814046	Correction to MAC PDU subheaders including eLCID	Qualcomm Incorporated	revised	2018-09-26 17:10:04	2018-09-28 03:41:55
R2-1814047	CR for T312 on LTE HetNet mobility	Intel Corporation	not pursued	2018-09-26 17:26:26	2018-09-28 06:01:34
R2-1814048	CR for T312 on LTE HetNet mobility	Intel Corporation	not pursued	2018-09-26 17:26:29	2018-09-28 06:01:34
R2-1814049	CR for T312 on LTE HetNet mobility	Intel Corporation	not pursued	2018-09-26 17:26:30	2018-09-28 06:01:34
R2-1814050	CR for T312 on LTE HetNet mobility	Intel Corporation	revised	2018-09-26 17:26:31	2018-09-28 06:01:34
R2-1814051	Discussion of conditional handover	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:01:34
R2-1814052	Performance evaluation of conditional	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:01:34
R2-1814053	Performance evaluation for simultaneous connectivity	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:01:34

R2-1814054	Discussion for simultaneous connectivity handover	Intel Corporation	noted	2018-09-26 17:26:32	2018-09-28 06:01:34
R2-1814055	On overall sidelink design principles for	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814056	Connection management aspects for NR	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814057	On RAT selection for NR V2X	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814058	QoS considerations over SL for NR V2X	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814059	Configured Grant enhancement	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814060	Paging for NR-U	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814061	Solution for Mobile Terminated EDT	Intel Corporation	noted	2018-09-26 17:26:32	2018-09-28 06:01:34
R2-1814062	ETWS/CMAS in connected mode for non-	Intel Corporation	noted	2018-09-26 17:26:32	2018-09-28 06:01:34
R2-1814063	Handling UP EDT in new eNB	Intel Corporation	noted	2018-09-26 17:26:32	2018-09-28 06:01:34
R2-1814064	SL broadcast design for NR V2X	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814065	Considerations on unicast and groupcast	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814066	Sidelink resource allocation for unicast vs	Intel Corporation	not treated	2018-09-26 17:26:32	2018-09-28 06:12:34
R2-1814067	EDT when resuming in a new eNB	Intel Corporation	revised	2018-09-26 17:26:32	2018-09-28 06:01:34
R2-1814068	DL EDT TBS size and ACK	Intel Corporation	not treated	2018-09-26 17:26:33	2018-09-28 06:01:34
R2-1814069	TR 38.874	Qualcomm Inc (Rapporteur)	agreed	2018-09-26 17:27:08	2018-09-26 18:44:07
R2-1814070	Comparison of IAB bearer mapping	Qualcomm Inc	not treated	2018-09-26 17:28:56	2018-09-26 18:51:28
R2-1814071	Comparison of Adapt with vs. without IP	Qualcomm Inc	noted	2018-09-26 17:30:45	2018-09-26 18:51:28
R2-1814072	Correction to ARQ comparison table for	Qualcomm Inc	not treated	2018-09-26 17:33:05	2018-09-26 18:51:28
R2-1814073	UP support for IAB node in arch 1a	Qualcomm Inc	noted	2018-09-26 17:34:26	2018-09-26 18:51:28
R2-1814074	Clarification of guami-Type	Ericsson	not treated	2018-09-26 19:04:53	2018-09-27 15:01:02
R2-1814075	CR to 38.331 on clarification of guami-	Ericsson	revised	2018-09-26 19:04:53	2018-09-27 15:01:02
R2-1814076	CR to 38.300 on clarification of AMF switch in RRC_INACTIVE	Ericsson	not treated	2018-09-26 19:04:59	2018-09-27 15:01:02
R2-1814077	Cell ID in MAC-I calculation at resume	Ericsson	noted	2018-09-26 19:05:00	2018-09-27 15:01:02
R2-1814078	CR to 38.331 on Cell Identifier for MAC-I calculation at resume and reestablishment	Ericsson	not treated	2018-09-26 19:05:00	2018-09-27 15:01:02
R2-1814079	Draft LS on usage of Cell Identifier in MAC-I calculation at resume and	Ericsson	not treated	2018-09-26 19:05:00	2018-09-27 15:01:02
R2-1814080	Integrity protection of RRC Release	Ericsson	not treated	2018-09-26 19:05:00	2018-09-27 15:01:02
R2-1814081	CR to 38.331 on removing support for re-direct prior to RRC security establishment	Ericsson	not treated	2018-09-26 19:05:00	2018-09-27 15:01:02
R2-1814082	CR to 36.331 on removing support for re-direct prior to RRC security establishment	Ericsson	postponed	2018-09-26 19:05:01	2018-09-27 15:01:02
R2-1814083	[E201] Handling of mapped GUMMEI at idle mode mobility from 5GS to EPS	Ericsson	not treated	2018-09-26 19:05:02	2018-09-27 15:01:02
R2-1814084	[E201] CR to 36.331 on handling of mapped GUMMEI at idle mode mobility from 5GS	Ericsson	revised	2018-09-26 19:05:02	2018-09-27 15:01:02
R2-1814085	CR to 38.331 on protection of RRC	Ericsson	agreed	2018-09-26 19:05:04	2018-09-27 15:01:02
R2-1814086	Release and Redirect in 2-step procedure	Ericsson	not treated	2018-09-26 19:05:05	2018-09-27 15:01:02
R2-1814087	CR to 38.300 on Release and Redirect in 2-	Ericsson	not treated	2018-09-26 19:05:05	2018-09-27 15:01:02
R2-1814088	CR to 38.304 on Release and Redirect in 2-	Ericsson	revised	2018-09-26 19:05:07	2018-09-27 15:01:02
R2-1814089	CR to 38.331 on access category for RNA	Ericsson	not treated	2018-09-26 19:05:08	2018-09-27 15:01:02
R2-1814090	CR to 38.331 on access barring check	Ericsson	not treated	2018-09-26 19:05:08	2018-09-27 15:01:02
R2-1814091	CR to 36.331 on access barring check after handover	Ericsson	not treated	2018-09-26 19:05:09	2018-09-27 15:01:02
R2-1814092	CR to 38.331 on removal of access control	Ericsson	not treated	2018-09-26 19:05:10	2018-09-27 15:01:02
R2-1814093	SN counter in resume operation for NGEN-DC	Ericsson	not treated	2018-09-26 19:05:11	2018-09-27 15:01:02
R2-1814094	Security configuration for eLTE and MR-DC	Ericsson	not treated	2018-09-26 19:05:12	2018-09-27 15:01:02
R2-1814095	CR to 38.331 on security configuration for eLTE and MR-DC	Ericsson	not treated	2018-09-26 19:05:12	2018-09-27 15:01:02
R2-1814096	Resume discriminator for generation of short MAC-I in NR and eLTE	Ericsson	not treated	2018-09-26 19:05:13	2018-09-27 20:29:25
R2-1814097	Stopping T302 and related UE actions	Ericsson	not treated	2018-09-26 19:05:13	2018-09-27 15:01:02
R2-1814098	CR to 38.331 on stopping T302 and related	Ericsson	not treated	2018-09-26 19:05:13	2018-09-27 15:01:02
R2-1814099	Pending RNAU on cell reselection while	Ericsson	noted	2018-09-26 19:05:14	2018-09-27 15:01:02
R2-1814100	CR to 38.331 on pending RNAU on cell reselection while T302 is running	Ericsson	not treated	2018-09-26 19:05:14	2018-09-27 15:01:02
R2-1814101	Stopping T390 and UE related actions	Ericsson	noted	2018-09-26 19:05:15	2018-09-27 15:01:02
R2-1814102	CR to 38.331 on stopping T390 and UE	Ericsson	revised	2018-09-26 19:05:15	2018-09-27 15:01:02

R2-1814103	Configuration of dense PRS measurement	Ericsson	not pursued	2018-09-26 19:46:56	2018-09-28 05:58:32
R2-1814104	Introduction of dense PRS measurement gap preference in TS 36.300	Ericsson	not pursued	2018-09-26 19:55:03	2018-09-28 05:58:32
R2-1814105	Avoiding resource shortage due to introduction of positioning SIBs	Ericsson, ESA	noted	2018-09-26 19:58:38	2018-09-28 06:21:26
R2-1814106	SI message scheduling enhancement to avoid conflicts between legacy and	Ericsson, ESA	not treated	2018-09-26 20:02:15	2018-09-28 06:21:26
R2-1814107	RACH report enhancements for SON	Qualcomm Incorporated	noted	2018-09-26 20:15:00	2018-09-28 03:42:14
R2-1814108	Cell Global Identity and strongest	Ericsson	not treated	2018-09-26 20:17:53	2018-09-28 06:36:42
R2-1814109	IRAT Cell Selection for NB-IoT	Ericsson	not treated	2018-09-26 20:21:36	2018-09-28 06:36:42
R2-1814110	Supporting Presence of NRS on a non-anchor carrier for paging in NB-IoT	Ericsson	not treated	2018-09-26 20:28:02	2018-09-28 06:36:42
R2-1814111	Support of quality report in Msg3 for non-anchor access in NB-IoT	Ericsson	not treated	2018-09-26 20:31:50	2018-09-28 06:36:42
R2-1814112	Support of quality report in Msg3 for MTC	Ericsson	not treated	2018-09-26 20:34:05	2018-09-28 06:36:42
R2-1814113	RSS for measurement improvements in	Ericsson	not treated	2018-09-26 20:40:18	2018-09-28 06:37:15
R2-1814114	Discussion of Measurement Aspects for	Huawei, HiSilicon	not treated	2018-09-26 21:25:43	2018-09-28 06:07:23
R2-1814115	MCG SCG failure handling in NR-NR DC	Huawei, HiSilicon	not treated	2018-09-26 21:25:46	2018-09-28 06:07:23
R2-1814116	Discussion on UE capability coordination	Huawei, HiSilicon	not treated	2018-09-26 21:25:46	2018-09-28 06:07:23
R2-1814117	UE capability in NR-DC	Huawei, HiSilicon	not treated	2018-09-26 21:25:47	2018-09-28 06:07:23
R2-1814118	Inter-node message for NR-DC	Huawei, HiSilicon	not treated	2018-09-26 21:25:47	2018-09-28 06:07:23
R2-1814119	Details on RRCReconfiguration for NR-	Huawei, HiSilicon	not treated	2018-09-26 21:25:47	2018-09-28 06:07:23
R2-1814120	Analysis for supporting of inter-system MR-DC HO	Huawei, HiSilicon	not treated	2018-09-26 21:25:47	2018-09-28 06:07:23
R2-1814121	Correction to the system information in Handover Request message	Huawei, HiSilicon, Rapporteur	agreed	2018-09-26 21:25:47	2018-09-28 06:07:23
R2-1814122	Corrections for handover between NR and	Huawei, HiSilicon	revised	2018-09-26 21:25:48	2018-09-28 06:07:23
R2-1814123	Corrections for handover between NR and E-UTRA in TS36.331	Huawei, HiSilicon	revised	2018-09-26 21:25:49	2018-09-28 06:07:23
R2-1814124	Corrections for HandoverPreparationInformation	Huawei, HiSilicon	not pursued	2018-09-26 21:25:50	2018-09-28 06:07:23
R2-1814125	CR on frequencyInfoDL for handover	Huawei, HiSilicon	not treated	2018-09-26 21:25:52	2018-09-28 06:07:23
R2-1814126	Discussion on support of mobility history	Huawei, HiSilicon	not treated	2018-09-26 21:25:53	2018-09-28 06:07:23
R2-1814127	Considerations on NR-U Paging in Unlicensed Spectrum	Charter Communications	not treated	2018-09-26 21:28:22	2018-09-27 22:11:11
R2-1814128	Signalling flow for transitions from RRC_INACTIVE to RRC_IDLE	Huawei, HiSilicon, Nokia	revised	2018-09-26 22:01:51	2018-09-28 06:11:27
R2-1814129	Discussion on stopping of T302 upon	Huawei, HiSilicon	not treated	2018-09-26 22:01:54	2018-09-28 06:11:27
R2-1814130	CR on handling of security key for	Huawei, HiSilicon	not treated	2018-09-26 22:01:54	2018-09-28 06:11:27
R2-1814131	Security of MSG4 in case of RNAU	Huawei, HiSilicon	not treated	2018-09-26 22:01:55	2018-09-28 06:11:27
R2-1814132	Draft LS on RNAU without relocation	Huawei, HiSilicon	noted	2018-09-26 22:01:55	2018-09-28 06:11:27
R2-1814133	Support of RNA update without context relocation	Huawei, HiSilicon	not treated	2018-09-26 22:01:55	2018-09-28 06:11:27
R2-1814134	CR on resumeMAC-I calculation to support RNAU without context relocation	Huawei, HiSilicon	not treated	2018-09-26 22:01:55	2018-09-28 06:11:27
R2-1814135	Discussion on security algorithm negotiation issue for Resume, RNAU and	Huawei, HiSilicon	not treated	2018-09-26 22:01:56	2018-09-28 06:11:27
R2-1814136	NCSG Support in NR	Huawei, HiSilicon	not treated	2018-09-26 22:01:56	2018-09-28 06:11:27
R2-1814137	Measurement Gap Capability Feedback	Huawei, HiSilicon	not treated	2018-09-26 22:01:56	2018-09-28 06:11:27
R2-1814138	Inapplicability of SMTC in MeasObjectNR	Huawei, HiSilicon	noted	2018-09-26 22:01:56	2018-09-28 06:11:27
R2-1814139	Discussion on measObject swapping upon handover	Huawei, HiSilicon, Nokia, Nokia Shanghai Bell	not treated	2018-09-26 22:01:56	2018-09-28 06:11:27
R2-1814140	Ensuring that all candidate cells for	Huawei, HiSilicon	not treated	2018-09-26 22:01:56	2018-09-28 06:11:27
R2-1814141	CR on reporting measurement results of cells within x dB of best triggered cell	Huawei, HiSilicon	not treated	2018-09-26 22:01:56	2018-09-28 06:11:27
R2-1814142	Removal of measurement reporting entries upon modification of measurement	Huawei, HiSilicon	not treated	2018-09-26 22:01:57	2018-09-28 06:11:27
R2-1814143	CR on unnecessary removing	Huawei, HiSilicon	not treated	2018-09-26 22:01:57	2018-09-28 06:11:27

R2-1814144	CR on ssb-ToMeasure in	Huawei, HiSilicon	revised	2018-09-26 22:01:58	2018-09-28 06:11:27
R2-1814145	Handling of SSB information in MeasurementTimingConfiguration	Huawei, HiSilicon	noted	2018-09-26 22:01:59	2018-09-28 06:11:27
R2-1814146	CR on SSB type indication	Huawei, HiSilicon	not treated	2018-09-26 22:01:59	2018-09-28 06:11:27
R2-1814147	Inter node message for CSI-RS	Huawei, HiSilicon	noted	2018-09-26 22:02:00	2018-09-28 06:11:27
R2-1814148	Differentiation of requirements applicable for EN-DC and for standalone NR [H373]	Huawei, HiSilicon	not treated	2018-09-26 22:02:00	2018-09-28 06:11:27
R2-1814149	Corrections to the applicability of 38.331 to	Huawei, HiSilicon	revised	2018-09-26 22:02:00	2018-09-28 06:11:27
R2-1814150	Clarification on UE capability for measurement on non-monitored carrier	Huawei, HiSilicon	withdrawn	2018-09-26 22:02:01	
R2-1814151	CR on timing reference of SMTC upon	Huawei, HiSilicon	revised	2018-09-26 22:02:03	2018-09-28 06:11:27
R2-1814152	Clarification on SMTC periodicity in ReconfigurationWithSync and SSB	Huawei, HiSilicon	merged	2018-09-26 22:02:05	2018-09-28 06:11:27
R2-1814153	CR on 38.331 for RRCResumeRequest and RRCResumeRequest1	Huawei, HiSilicon	not treated	2018-09-26 22:02:05	2018-09-28 06:11:27
R2-1814154	CR on fallback to the setup procedure	Huawei, HiSilicon	revised	2018-09-26 22:02:06	2018-09-28 06:11:27
R2-1814155	Correction on measurement reporting for best neighbour NR cells in events A3, A4	Huawei, HiSilicon	withdrawn	2018-09-26 22:02:07	
R2-1814156	Correction on cell sorting for periodical measurement reporting	Huawei, HiSilicon	postponed	2018-09-26 22:02:08	2018-09-28 06:11:27
R2-1814157	CR on 38.331 for pendingRnaUpdate	Huawei, HiSilicon	not treated	2018-09-26 22:02:09	2018-09-28 06:11:27
R2-1814158	CR on measurement related actions upon handover and re-establishment	Huawei, HiSilicon	postponed	2018-09-26 22:02:11	2018-09-28 06:11:27
R2-1814159	CR on threshold description for cell quality	Huawei, HiSilicon	agreed	2018-09-26 22:02:13	2018-09-28 06:11:27
R2-1814160	CR on UE handling for suspendConfig	Huawei, HiSilicon	not treated	2018-09-26 22:02:14	2018-09-28 06:11:27
R2-1814161	CR on value range for RSRQ-Range	Huawei, HiSilicon	not pursued	2018-09-26 22:02:15	2018-09-28 06:11:27
R2-1814162	Discussion on NR serving cell measurement result inclusion in measurement report	Huawei, HiSilicon	not treated	2018-09-26 22:02:16	2018-09-28 06:11:27
R2-1814163	CR on NR serving cell measurement result inclusion in measurement report	Huawei, HiSilicon	not treated	2018-09-26 22:02:16	2018-09-28 06:11:27
R2-1814164	CR to avoid unnecessary L3 filtered beam	Huawei, HiSilicon	agreed	2018-09-26 22:02:17	2018-09-28 06:11:27
R2-1814165	CR on CGI reporting	Huawei, HiSilicon	postponed	2018-09-26 22:02:19	2018-09-28 06:11:27
R2-1814166	Ambiguity of targetCellIdentity in Resume Short MAC-I calculation	ZTE Corporation, Sanechips	not treated	2018-09-27 01:13:26	2018-09-28 05:22:56
R2-1814167	Resolving security requirements in RRC	LG Electronics	not treated	2018-09-27 01:33:03	2018-09-28 03:30:55
R2-1814168	Initial consideration on NR V2X resource allocation and configuration	ZTE	not treated	2018-09-27 01:43:28	2018-09-28 05:21:31
R2-1814169	Handling of T380 [L210]	LG Electronics	not treated	2018-09-27 01:45:23	2018-09-28 03:30:55
R2-1814170	Consideration on RAT selection in NR	ZTE	not treated	2018-09-27 01:45:36	2018-09-28 05:21:31
R2-1814171	Discussion on LTE and NR Un based resource allocation and configuration	ZTE	not treated	2018-09-27 01:48:29	2018-09-28 05:21:31
R2-1814172	In-device coexistence between NR V2X	ZTE	not treated	2018-09-27 01:50:47	2018-09-28 05:21:31
R2-1814173	Consideration on the UL path of split SRB in re-establishment procedure	LG Electronics France	not treated	2018-09-27 01:53:48	2018-09-28 03:30:55
R2-1814174	Support of unicast and groupcast in NR	ZTE	not treated	2018-09-27 01:59:18	2018-09-28 05:21:31
R2-1814175	Discussion on QoS management for NR	ZTE	not treated	2018-09-27 02:01:22	2018-09-28 05:21:31
R2-1814176	Discussion on resource pool configuration	ZTE	not treated	2018-09-27 02:04:47	2018-09-28 05:21:31
R2-1814177	CR on handling remaining issues in carrier reselection in TS 36.321 alt 1	ZTE	not pursued	2018-09-27 02:09:05	2018-09-28 05:21:31
R2-1814178	CR on SI validity check for stored system	vivo	not treated	2018-09-27 02:10:55	2018-09-28 06:38:36
R2-1814179	CR on SI reception after successful SI request (v111 v112 v122 v123)	vivo	not treated	2018-09-27 02:10:57	2018-09-28 06:38:36
R2-1814180	CR for check si-BroadcastStatus at BCCH modification boundary(v120 v121 v124)	vivo	not treated	2018-09-27 02:10:58	2018-09-28 06:38:36
R2-1814181	CR on preamble power ramping	vivo	not treated	2018-09-27 02:10:58	2018-09-28 06:38:36
R2-1814182	Temporary capability restriction for	vivo	not treated	2018-09-27 02:10:59	2018-09-28 06:38:36
R2-1814183	Missing SMTC for HO and intra-NR redirection	vivo	postponed	2018-09-27 02:10:59	2018-09-28 06:38:36
R2-1814184	Clarification on PUCCH-ConfigCommon	vivo	noted	2018-09-27 02:10:59	2018-09-28 06:38:36
R2-1814185	CR on PUCCH-ConfigCommon	vivo	revised	2018-09-27 02:10:59	2018-09-28 06:38:37
R2-1814186	Discussion on RAN1 LS for PF and PO	vivo	noted	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814187	Remaining issue on T302 handling	vivo	noted	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814188	On the search space of cross carrier	vivo	noted	2018-09-27 02:11:00	2018-09-28 06:38:37

R2-1814189	Considerations on UE capability ID	vivo	not treated	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814190	Solutions and procedures for UE capability ID signalling	vivo	noted	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814191	Considerations on RRC segmentation	vivo	not treated	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814192	Signalling procedure on DC handover in EUTRAN	vivo	not treated	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814193	UP achitecture and impacts of DC handover	vivo	not treated	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814194	Signaling procedures of conditional	vivo	not treated	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814195	Clarification on the MAC timer	vivo	not treated	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814196	CR of 38.321 on the MAC timer	vivo	not treated	2018-09-27 02:11:00	2018-09-28 06:38:37
R2-1814197	Discussion on the beam change during	vivo	noted	2018-09-27 02:11:01	2018-09-28 06:38:37
R2-1814198	CR of 38.321 on the beam change during	vivo	not treated	2018-09-27 02:11:01	2018-09-28 06:38:37
R2-1814199	CR of 38.323 on the ROHC	vivo	not pursued	2018-09-27 02:11:02	2018-09-28 06:38:37
R2-1814200	CR of 38.321 on CSI-RS measurement	vivo	not pursued	2018-09-27 02:11:03	2018-09-28 06:38:37
R2-1814201	Clarification of the PHR reporting	vivo	not treated	2018-09-27 02:11:05	2018-09-28 06:38:37
R2-1814202	CR of 38.321 on the PHR reporting	vivo	not treated	2018-09-27 02:11:05	2018-09-28 06:38:37
R2-1814203	CR on handling remaining issues in carrier reselection in TS 36.321 alt 2	ZTE	not pursued	2018-09-27 02:12:56	2018-09-28 05:21:31
R2-1814204	Informing the serving eNB of the feMBMS service(s) received from a different eNB in	Qualcomm India Pvt Ltd	noted	2018-09-27 02:16:03	2018-09-28 00:09:18
R2-1814205	Multi-user packet PUSCH mode design	BUPT	withdrawn	2018-09-27 02:19:07	2018-09-27 02:23:47
R2-1814206	LTE Mobility Enhancements	Qualcomm India Pvt Ltd	not treated	2018-09-27 02:23:58	2018-09-28 00:09:18
R2-1814207	LTE Mobility Robustness Enhancements	Qualcomm India Pvt Ltd	not treated	2018-09-27 02:28:31	2018-09-28 00:09:18
R2-1814208	Idle Cell Reselection from NB-IoT to LTE, eMTC	Qualcomm India Pvt Ltd	not treated	2018-09-27 02:35:45	2018-09-28 00:09:18
R2-1814209	Idle Cell Reselection from LTE, eMTC to NB-IoT	Qualcomm India Pvt Ltd	not treated	2018-09-27 02:38:06	2018-09-28 00:09:18
R2-1814210	Scheduling Request Overview	Rapporteur (Nokia), Ericsson	revised	2018-09-27 02:41:28	2018-09-28 00:42:23
R2-1814211	System Information Provisionning	Rapporteur (Nokia), OPPO, Sanechips, ZTE	agreed	2018-09-27 02:41:29	2018-09-28 00:42:23
R2-1814212	Transport of NAS Messages	Rapporteur	revised	2018-09-27 02:41:30	2018-09-28 00:42:23
R2-1814213	SON Overview	Rapporteur	revised	2018-09-27 02:41:31	2018-09-28 00:42:23
R2-1814214	Relocating QoS Flows from the default DRB	Nokia, Nokia Shanghai Bell	noted	2018-09-27 02:41:33	2018-09-28 00:42:23
R2-1814215	Priority handling at QoS flow relocation	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 02:41:33	2018-09-28 00:42:23
R2-1814216	BSR at QoS flow relocation	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 02:41:33	2018-09-28 00:42:23
R2-1814217	Priority handling at QoS flow relocation	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 02:41:34	2018-09-28 00:42:23
R2-1814218	Priority handling at QoS flow relocation	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 02:41:35	2018-09-28 00:42:23
R2-1814219	RDI and Data Forwarding	Nokia, Nokia Shanghai Bell	noted	2018-09-27 02:41:36	2018-09-28 00:42:23
R2-1814220	RDI handling for data forwarding at handover	Nokia, Nokia Shanghai Bell	revised	2018-09-27 02:41:36	2018-09-28 00:42:23
R2-1814221	LS on RDI for Data Forwarding	Nokia	not treated	2018-09-27 02:41:37	2018-09-28 00:42:23
R2-1814222	Enabling and disabling integrity protection on a DRB in MR-DC	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 02:41:37	2018-09-28 00:42:23
R2-1814223	Correction on BWP operation procedure	Xiaomi Communications	not treated	2018-09-27 03:00:14	2018-09-27 09:11:30
R2-1814224	DRAFT Reply LS on Dynamic PLR Allocation in eVoLP	Qualcomm Incorporated	revised	2018-09-27 03:39:29	2018-09-27 11:15:14
R2-1814225	Corrections for initial BWP and CommonControlResourceSet	Qualcomm Incorporated	not treated	2018-09-27 03:39:29	2018-09-28 04:35:46
R2-1814226	Remaining Issues in UE Radio Capability for IMS Voice	Qualcomm Incorporated	noted	2018-09-27 03:39:30	2018-09-28 04:35:46

R2-1814227	Channel Bandwidth Signalling	Qualcomm Incorporated	not treated	2018-09-27 03:39:30	2018-09-27 11:15:14
R2-1814228	Handling of FDD/TDD and FR1/FR2 capability differences	Qualcomm Incorporated	noted	2018-09-27 03:39:30	2018-09-27 11:15:14
R2-1814229	Handling of FDD/TDD and FR1/FR2 capability differences	Qualcomm Incorporated	postponed	2018-09-27 03:39:30	2018-09-27 11:15:14
R2-1814230	Timer based BWP switching	Qualcomm Incorporated	agreed	2018-09-27 03:39:31	2018-09-27 11:15:14
R2-1814231	EN-DC SN addition upon inter-RAT handover from UTRAN or GERAN	Qualcomm Incorporated	not treated	2018-09-27 03:39:32	2018-09-27 11:15:14
R2-1814232	Introduction of IDC mechanism for EN-DC operation	Qualcomm Incorporated	not treated	2018-09-27 03:39:33	2018-09-27 11:15:42
R2-1814233	UE capabilty for IDC mechanism for EN-DC operation	Qualcomm Incorporated	agreed	2018-09-27 03:39:34	2018-09-27 11:15:42
R2-1814234	UE capabilty for IDC mechanism for EN-DC operation	Qualcomm Incorporated	revised	2018-09-27 03:39:35	2018-09-27 11:15:42
R2-1814235	Correction on frequency separation class	Qualcomm Incorporated	postponed	2018-09-27 03:39:37	2018-09-27 11:15:42
R2-1814236	Correction on frequency separation class	Qualcomm Incorporated	not treated	2018-09-27 03:39:38	2018-09-27 11:15:42
R2-1814237	Additional UE capabilities for NR standalone	Qualcomm Incorporated	revised	2018-09-27 03:39:39	2018-09-28 04:35:46
R2-1814238	Additional UE capabilities for NR standalone	Qualcomm Incorporated	revised	2018-09-27 03:39:40	2018-09-28 04:35:46
R2-1814239	EUTRA UE capability filtering	Qualcomm Incorporated	not treated	2018-09-27 03:39:41	2018-09-28 04:35:46
R2-1814240	UE radio capability reporting based on UE-capability-ID	Qualcomm Incorporated	noted	2018-09-27 03:39:42	2018-09-28 04:35:46
R2-1814241	Draft LS reply to RAN1 LS on cross-carrier scheduling	Qualcomm Incorporated	not treated	2018-09-27 03:39:42	2018-09-28 04:35:46
R2-1814242	SRS antenna switching UE capabilities	Qualcomm Incorporated	not treated	2018-09-27 03:43:51	2018-09-27 11:15:42
R2-1814243	Discussion on Tracking Area Management in NTN	ZTE Corporation, Sanechips	not treated	2018-09-27 03:45:48	2018-09-28 01:12:32
R2-1814244	Discussion on Network Identities in NTN	ZTE Corporation, Sanechips	not treated	2018-09-27 03:47:16	2018-09-28 01:12:32
R2-1814245	Discussion on L2 protocol design for NR	Huawei, HiSilicon	not treated	2018-09-27 03:50:09	2018-09-28 04:06:54
R2-1814246	Discussion on L3 CP related aspects for	Huawei, HiSilicon	not treated	2018-09-27 03:50:09	2018-09-28 04:06:54
R2-1814247	T302 timer exemption for MPS	Vencore Labs, OEC	not treated	2018-09-27 04:02:54	2018-09-27 21:11:19
R2-1814248	NR RRC Processing Time	MediaTek Inc.	noted	2018-09-27 04:05:24	2018-09-28 02:20:25
R2-1814249	DL quality reporting in Msg3	Intel Corporation	noted	2018-09-27 04:08:44	2018-09-28 06:01:34
R2-1814250	NR RRC Processing Time	MediaTek Inc.	not treated	2018-09-27 04:12:05	2018-09-28 02:20:25
R2-1814251	Cleanup on handover to EUTRA procedure	Google Inc.	revised	2018-09-27 04:59:52	2018-09-28 06:30:42
R2-1814252	Clarifications on default and non-default	Sharp	not treated	2018-09-27 05:08:17	2018-09-28 01:02:48
R2-1814253	Further Discussion on RNA updating	Sharp	not treated	2018-09-27 05:12:07	2018-09-28 01:02:48
R2-1814254	Update of L1/RF capabilities	NTT DOCOMO, INC.	not treated	2018-09-27 05:13:03	2018-10-02 02:47:16
R2-1814255	Remaining issue on re-establishment	MediaTek Inc.	not treated	2018-09-27 05:18:55	2018-09-28 02:20:25
R2-1814256	Corrections on re-establishment	MediaTek Inc.	revised	2018-09-27 05:21:28	2018-09-28 02:20:25
R2-1814257	Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-	Qualcomm India Pvt Ltd	revised	2018-09-27 05:24:19	2018-09-28 00:09:18
R2-1814258	Broadcast of Additional UE geo information	ITRI	noted	2018-09-27 05:25:46	2018-09-27 08:18:48
R2-1814259	Discussion on Sidelink unicast and	ITRI	not treated	2018-09-27 05:27:16	2018-09-27 08:18:48
R2-1814260	Correction on suspend/resume procedure	MediaTek Inc.	not treated	2018-09-27 05:27:53	2018-09-28 02:20:25
R2-1814261	Discussion QoS index measurement for	ITRI	not treated	2018-09-27 05:28:15	2018-09-27 08:18:48
R2-1814262	Enhance RACH with Additional	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814263	RAN2 impacts of 2-step RACH	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814264	Discussion on SR procedure	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37

R2-1814265	Discussion on the configurations of	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814266	Paging enhancements for NR-U	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814267	Evaluation of the RLM for NR-U	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814268	Text proposals for the evaluation resultsof	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814269	Discussion on the service based channel	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814270	Discussion on single or muliple DRX	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814271	Discussion on the support of multiple	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814272	Discussion on the time synchronization within RAN for supporting IIOT	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814273	Consideration on Ethernet header compression for supporting IIOT	vivo	not treated	2018-09-27 05:30:36	2018-09-28 06:50:37
R2-1814274	SIB size limitation [M201]	MediaTek Inc.	revised	2018-09-27 05:33:40	2018-09-28 02:20:25
R2-1814275	Correction on SRS-TPC-CommandConfig	MediaTek Inc.	revised	2018-09-27 05:38:30	2018-09-28 02:20:25
R2-1814276	Discussion on NR zone design for sidelink resource allocation considering vehicle	Hyundai Motors	not treated	2018-09-27 05:43:25	2018-09-28 05:21:36
R2-1814277	Reset RLF timer and counter while	MediaTek Inc.	not treated	2018-09-27 05:43:36	2018-09-28 02:20:25
R2-1814278	Supporting UL data transmission on pre-configured resources in IDLE	Qualcomm Incorporated	noted	2018-09-27 05:44:04	2018-09-28 04:30:14
R2-1814279	The mobility in IAB	Potevio	not treated	2018-09-27 05:45:35	2018-09-28 03:21:08
R2-1814280	Draft LS on RRC establishment cause in RRC reestablishment fallback case	Sharp	revised	2018-09-27 05:53:00	2018-09-28 02:31:36
R2-1814281	RACH design for NR-U	Qualcomm Incorporated	not treated	2018-09-27 06:02:09	2018-09-27 22:48:53
R2-1814282	Default radio configurations in full	MediaTek Inc.	not treated	2018-09-27 06:12:43	2018-09-28 02:20:25
R2-1814283	RSRP result in SFTD measurement	MediaTek Inc.	revised	2018-09-27 06:18:13	2018-09-28 02:20:25
R2-1814284	NR serving frequency reporting in LTE	MediaTek Inc.	not treated	2018-09-27 06:23:15	2018-09-28 02:20:25
R2-1814285	Clarification on Counter check procedure	Samsung Research	revised	2018-09-27 07:12:37	2018-09-28 00:01:34
R2-1814286	Conditions on camping on a non-best cell	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814287	Network control of 2-step random access procedure	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814288	RRM and Connect Mode mobility	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814289	RRC connected mode mobility for NR-U	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814290	Discussion on DRX for NR-U	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814291	On the selection of PRACH resources for transmission of Msg1/MsgA in NR-U RA	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:39:57
R2-1814292	On Channel Access Priority Classes in NR-U	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814293	On the impact of LBT on RA and SR procedures	Nokia, Nokia Shanghai Bell	noted	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814294	RLM/RLF measurement on NR-U	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 07:14:46	2018-09-28 06:01:11
R2-1814295	CR on ng-5g-s-tmsi-value Handling During the Reception of RRCSetup for	Samsung Electronics	revised	2018-09-27 07:22:09	2018-09-28 04:26:04
R2-1814296	CR on ng-5g-s-tmsi-bits Handling During the Reception of RRCSetup for 36.331	Samsung Electronics	not treated	2018-09-27 07:22:10	2018-09-28 04:26:04
R2-1814297	Correction for the Start Condition on T319	Samsung	not treated	2018-09-27 07:22:11	2018-09-28 04:26:04
R2-1814298	Aligning the Text Procedure for the	Samsung	not treated	2018-09-27 07:22:12	2018-09-28 04:26:04
R2-1814299	CR on Aligning the Text Procedure for the	Samsung	not treated	2018-09-27 07:22:12	2018-09-28 04:26:04
R2-1814300	CR on Aligning the Text Procedure for the Suspend RBs in LTE	Samsung Electronics	withdrawn	2018-09-27 07:22:13	
R2-1814301	Clarification for the Support of Delay	Samsung	not treated	2018-09-27 07:22:15	2018-09-28 04:26:04
R2-1814302	CR on the Clarification for the support of the delay budget report in NR	Samsung Electronics	not treated	2018-09-27 07:22:15	2018-09-28 04:26:04
R2-1814303	Clarification on reconfigurationWithSync	Samsung	revised	2018-09-27 07:22:16	2018-09-28 04:26:04
R2-1814304	Considerations for Sidelink Resource Pool	Samsung	not treated	2018-09-27 07:22:17	2018-09-28 04:26:04
R2-1814305	Sidelink Resource Control between LTE	Samsung	not treated	2018-09-27 07:22:17	2018-09-28 04:26:04
R2-1814306	Considerations for Support Mobility for NR	Samsung	not treated	2018-09-27 07:22:17	2018-09-28 04:26:04
R2-1814307	QoS Aspects for MR-DC and NR-NR DC	Huawei, HiSilicon	not treated	2018-09-27 07:23:52	2018-09-28 04:13:33
R2-1814308	In Order Delivery during QoS Flow Relocation in MR-DC	Huawei, HiSilicon	not treated	2018-09-27 07:23:52	2018-09-28 04:13:33

R2-1814309	CR on UE handlings of reflective QoS	Huawei, HiSilicon	not pursued	2018-09-27 07:23:52	2018-09-28 04:13:33
R2-1814310	PDCP reset	Samsung Research	not treated	2018-09-27 07:25:25	2018-09-28 00:01:34
R2-1814311	UE behaviour upon cell re-selection while	LG Electronics	not treated	2018-09-27 07:25:53	2018-09-28 03:30:55
R2-1814312	Idle/Inactive mode issues for NR-U	Qualcomm Incorporated	not treated	2018-09-27 07:27:09	2018-09-27 23:19:57
R2-1814313	Consideration on inter-RAT cell selection/reselection in NB-IoT	ZTE Corporation	not treated	2018-09-27 07:27:36	2018-09-28 07:22:33
R2-1814314	UE behaviour upon cell re-selection while T302 is running [L211]	LG Electronics France	not treated	2018-09-27 07:28:20	2018-09-28 03:30:55
R2-1814315	PDCP reset	Samsung Research	not treated	2018-09-27 07:29:13	2018-09-28 00:01:34
R2-1814316	Overview of mobility interruption enhancements in LTE	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 19:56:07
R2-1814317	Overview on mobility robustness	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 19:56:21
R2-1814318	Measurement reporting overhead reduction based on enhanced event	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 19:56:32
R2-1814319	Conditional handover in LTE	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 20:09:35
R2-1814320	Simulation results for conditional handover	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 20:09:49
R2-1814321	RLC UM for RRC messages	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 20:10:00
R2-1814322	Enhancements to re-establishment	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 20:10:13
R2-1814323	Enhanced handling of timer T312	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 20:10:36
R2-1814324	Configured Scheduling during Random	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 20:10:36
R2-1814325	Correction on Configured Scheduling during Random Access Procedure	Ericsson	not treated	2018-09-27 07:30:31	2018-09-27 20:10:36
R2-1814326	Bearer type selection for SN terminated DRB in MR-DC with 5GC	NEC	not treated	2018-09-27 07:31:59	2018-09-28 06:17:34
R2-1814327	DRX Procedure for NR-U	PANASONIC R&D Center	not treated	2018-09-27 07:32:34	2018-09-27 15:52:20
R2-1814328	Unnecessary deciphering in PDCP receive operation	Samsung Research	noted	2018-09-27 07:32:54	2018-09-28 00:01:34
R2-1814329	Small correction to paging with wake up signal	ZTE Corporation, Ericsson	revised	2018-09-27 07:34:57	2018-09-28 07:40:07
R2-1814330	Unnecessary deciphering in PDCP receive operation	Samsung Research	not treated	2018-09-27 07:38:20	2018-09-28 00:01:34
R2-1814331	SR in NR-U	PANASONIC R&D Center	not treated	2018-09-27 07:39:09	2018-09-27 15:52:20
R2-1814332	Corrections and clarifications for MO EDT	Ericsson	noted	2018-09-27 07:39:31	2018-09-28 06:58:02
R2-1814333	Corrections and clarifications for MO EDT	Ericsson	revised	2018-09-27 07:39:31	2018-09-28 06:41:29
R2-1814334	Clarification on NCC values in EDT	Ericsson	noted	2018-09-27 07:39:32	2018-09-28 06:41:29
R2-1814335	Correction on fallback cases in EDT	Ericsson	noted	2018-09-27 07:39:32	2018-09-28 06:41:29
R2-1814336	Correction on fallback cases in EDT	Ericsson	revised	2018-09-27 07:39:32	2018-09-28 06:41:29
R2-1814337	Correction on UL data discard for EDT	Ericsson	reserved	2018-09-27 07:39:33	
R2-1814338	EDT and UEs configured with PSM	Ericsson	noted	2018-09-27 07:39:34	2018-09-28 06:41:29
R2-1814339	Clarification on SI acquisition time	Ericsson	withdrawn	2018-09-27 07:39:34	
R2-1814340	Mobile-terminated early data transmission	Ericsson	not treated	2018-09-27 07:39:35	2018-09-28 06:41:29
R2-1814341	CE mode improvements for LTE-MTC	Ericsson	not treated	2018-09-27 07:39:35	2018-09-28 06:54:09
R2-1814342	Preconfigured uplink resources	Ericsson	not treated	2018-09-27 07:39:35	2018-09-28 06:41:29
R2-1814343	Use cases for transmission in preconfigured uplink resources	Ericsson	noted	2018-09-27 07:39:35	2018-09-28 06:41:29
R2-1814344	Scheduling enhancement	Ericsson	noted	2018-09-27 07:39:35	2018-09-28 06:41:29
R2-1814345	Relaxation of RRM measurements for	Ericsson	not treated	2018-09-27 07:39:35	2018-09-28 06:51:09
R2-1814346	DRAFT LS on RRM measurement relaxation for Cat-M UEs configured with	Ericsson	not treated	2018-09-27 07:39:35	2018-09-28 06:51:09

R2-1814347	Temporary SI densification	Ericsson	not treated	2018-09-27 07:39:35	2018-09-28 06:41:29
R2-1814348	MPDCCH performance improvements	Ericsson	not treated	2018-09-27 07:39:35	2018-09-28 07:00:33
R2-1814349	Standalone enhancements for LTE-MTC	Ericsson	noted	2018-09-27 07:39:35	2018-09-28 06:41:29
R2-1814350	WI work plan for Rel-16 LTE-MTC	Ericsson	noted	2018-09-27 07:39:35	2018-09-28 06:41:29
R2-1814351	Mobile terminated early data transmission	III	not treated	2018-09-27 07:44:29	2018-09-27 07:54:25
R2-1814352	CR on Aligning the Text Procedure for the Suspend RBs in LTE	Samsung Electronics	not treated	2018-09-27 07:46:36	2018-09-28 04:26:04
R2-1814353	Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107)	ZTE Corporation	revised	2018-09-27 07:50:59	2018-09-28 07:54:17
R2-1814354	Extension of carrier frequency indication in SidelinkUEInformation	Huawei, HiSilicon	noted	2018-09-27 07:53:55	2018-09-28 03:51:27
R2-1814355	CR on carrier frequency indication in SidelinkUEInformation (Opt 1)	Huawei, HiSilicon	not pursued	2018-09-27 07:53:55	2018-09-28 03:51:27
R2-1814356	CR on carrier frequency indication in SidelinkUEInformation (Opt 2)	Huawei, HiSilicon	postponed	2018-09-27 07:53:57	2018-09-28 03:51:27
R2-1814357	CR on carrier frequency indication in SidelinkUEInformation (Opt 3)	Huawei, HiSilicon	not pursued	2018-09-27 07:54:00	2018-09-28 03:51:27
R2-1814358	Reconsideration on the transmission format restriction to SL packet duplication	Huawei, Ericsson, HiSilicon	not treated	2018-09-27 07:54:02	2018-09-28 03:51:27
R2-1814359	Correction to resume/suspand description (RIL Z101, Z102, Z108, Z110)	ZTE Corporation	withdrawn	2018-09-27 07:54:35	
R2-1814360	End to end flow control in multi-hop IAB	Ericsson	not treated	2018-09-27 07:55:05	2018-09-27 22:53:40
R2-1814361	Hop by hop flow control in multi-hop IAB	Ericsson	not treated	2018-09-27 07:55:07	2018-09-27 22:53:40
R2-1814362	Way forward on RLC termination	Ericsson, AT&T, KDDI, LG, Kyocera, ZTE,	noted	2018-09-27 07:55:07	2018-09-27 23:36:32
R2-1814363	Logical channel grouping for BSR in IAB networks	Ericsson, AT&T, KDDI, LG, CATT, Kyocera, Intel	not treated	2018-09-27 07:55:07	2018-09-27 23:36:32
R2-1814364	Way forward on Bearer Mapping	Ericsson, AT&T, KDDI, LG, CATT, ZTE, Kyocera,	not treated	2018-09-27 07:55:07	2018-09-27 23:36:32
R2-1814365	Uplink Scheduling in IAB networks	Ericsson	noted	2018-09-27 07:55:07	2018-09-27 22:53:40
R2-1814366	Supporting slicing in IAB networks	Ericsson	not treated	2018-09-27 07:55:07	2018-09-27 22:53:40
R2-1814367	Way forward on CU-DU separation	Ericsson, AT&T,	not treated	2018-09-27 07:55:07	2018-09-27 23:36:32
R2-1814368	Way forward on F1-AP termiantion	Ericsson, AT&T, KDDI, Qualcomm	noted	2018-09-27 07:55:07	2018-09-27 23:36:32
R2-1814369	Way forward on F1-U termination	Ericsson, AT&T,	noted	2018-09-27 07:55:07	2018-09-27 23:36:32
R2-1814370	Usage of SCTP over the IAB backhaul	Ericsson	not treated	2018-09-27 07:55:07	2018-09-27 22:53:40
R2-1814371	Summary of email discussion [103#54] on CP message transport in IAB	Ericsson	agreed	2018-09-27 07:55:07	2018-09-27 22:53:40
R2-1814372	Progressing Open Issues on Annex of Early Implementable Features	NTT DOCOMO INC.	not treated	2018-09-27 07:57:19	2018-09-28 02:30:46
R2-1814373	Correction to resume/suspand description (RIL Z101, Z102, Z108, Z110)	ZTE Corporation	not pursued	2018-09-27 07:58:32	2018-09-28 08:00:56
R2-1814374	[P002] Earlier Termination of the On-Demand SI Request Procedure	PANASONIC R&D Center	not treated	2018-09-27 08:02:40	2018-09-27 08:14:48
R2-1814375	Analysis for UL transmission over preconfigured resources for NB-IoT and	ZTE Corporation	noted	2018-09-27 08:04:30	2018-09-28 06:49:13
R2-1814376	Support for UL transmission over preconfigured dedicated resource in idle	ZTE Corporation	not treated	2018-09-27 08:07:08	2018-09-28 06:51:40
R2-1814377	Correction on UE security context	Google Inc.	not treated	2018-09-27 08:07:55	2018-09-28 03:08:49
R2-1814378	E2E flow control based on ARQ mechanism	PANASONIC R&D Center	not treated	2018-09-27 08:08:26	2018-09-27 08:14:48
R2-1814379	Analysis on network management tool related measurement report in NB-IoT	ZTE Corporation	not treated	2018-09-27 08:09:01	2018-09-28 07:21:10
R2-1814380	Support for quality report in Msg3 for non-anchor access in NB-IoT	ZTE Corporation	not treated	2018-09-27 08:11:14	2018-09-28 07:21:33
R2-1814381	[RIL]G107 Correction on going to	Google Inc.	not treated	2018-09-27 08:11:17	2018-09-28 03:09:57

R2-1814382	Consideration on UE-group wake-up signal for NB-IoT and eMTC	ZTE Corporation	not treated	2018-09-27 08:14:08	2018-09-28 07:23:36
R2-1814383	UE capability size reduction through generic compression	MediaTek Inc.	not treated	2018-09-27 08:15:31	2018-09-28 03:56:14
R2-1814384	Consideration on issues related to coexistence of NB-IoT with NR	ZTE Corporation	not treated	2018-09-27 08:16:17	2018-09-28 07:26:21
R2-1814385	Clarification of incorrect message sequence in SN initiated SN change	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:18:20	2018-09-27 19:45:17
R2-1814386	Introduction of parameter XScaleThreshold for inter-band EN-DC power control	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:18:21	2018-09-27 19:45:17
R2-1814387	Interoperability issue when handling of the candidateCellInfoList IE in EN-DC (unresolved ASN.1 issue N105)	Nokia, Nokia Shanghai Bell	noted	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814388	Conflicting understanding in interpreting MIMO capabilities in EN-DC	Nokia, Nokia Shanghai Bell	noted	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814389	Clarification to TS 36.306 on MIMO capabilities in EN-DC	Nokia, Nokia Shanghai Bell	noted	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814390	DRB-ID assignment in dual connectivity with 5GC	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814391	Output of email discussion [103#49] [NR late drop] Capability coordination for NR-DC	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814392	Control Plane signalling compression using deflate	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814393	Initial working assumptions on the “UE Capability ID”	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814394	On retaining lower layer configuration of SCG in RRC_INACTIVE	Nokia, Nokia Shanghai Bell, Apple Inc., Intel Corporation,	noted	2018-09-27 08:18:22	2018-09-27 19:45:17
R2-1814395	Consideration on issues related to coexistence of LTE-MTC with NR	ZTE Corporation	not treated	2018-09-27 08:18:58	2018-09-28 07:37:29
R2-1814396	Consideration on MPDCCH performance improvement in eMTC	ZTE Corporation	not treated	2018-09-27 08:21:14	2018-09-28 07:38:27
R2-1814397	[E160] Duration of on-demand SI broadcast	Ericsson	not treated	2018-09-27 08:21:28	2018-09-27 21:02:41
R2-1814398	Corrections to the duration of on-demand	Ericsson	not treated	2018-09-27 08:21:28	2018-09-27 19:53:54
R2-1814399	Clarification of MIB and SIB1 acquisition in RRC_CONNECTED [E576]	Ericsson	not treated	2018-09-27 08:21:29	2018-09-27 19:53:54
R2-1814400	Validity of stored cell specific SIB at NW	Ericsson	not treated	2018-09-27 08:21:30	2018-09-27 19:53:54
R2-1814401	Removal of System Information related Editor's Notes and FFSs	Ericsson	merged	2018-09-27 08:21:31	2018-09-27 19:53:54
R2-1814402	Considerations on value tags for PWS	Ericsson	not treated	2018-09-27 08:21:31	2018-09-27 19:53:54
R2-1814403	Correction on resume Access Category	Google Inc.	not pursued	2018-09-27 08:24:15	2018-09-28 03:10:56
R2-1814404	Discussion on UE performing cell selection/reselection for IAB node	FibeHome	not treated	2018-09-27 08:25:08	2018-09-27 10:35:07
R2-1814405	Remaining issues on additional SIB1 in	ZTE Corporation	noted	2018-09-27 08:26:47	2018-09-28 07:56:58
R2-1814406	Correction on RRC resume	Google Inc.	not treated	2018-09-27 08:27:22	2018-09-28 03:12:00
R2-1814407	Consideration on IAB startup procedure	FiberHome	not treated	2018-09-27 08:27:30	2018-09-27 10:35:07
R2-1814408	Msg3 buffer handling upon CE level change	Nokia, Nokia Shanghai Bell	noted	2018-09-27 08:32:09	2018-09-27 08:45:11
R2-1814409	Flushing Msg3 buffer upon CE level change for EDT attempt	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:32:09	2018-09-27 08:45:11
R2-1814410	MPDCCH monitoring for receiving HARQ ACK feedback	Nokia, Nokia Shanghai Bell	noted	2018-09-27 08:32:11	2018-09-27 08:45:11
R2-1814411	MPDCCH monitoring for receiving HARQ ACK feedback	Nokia, Nokia Shanghai Bell	revised	2018-09-27 08:32:11	2018-09-27 08:45:11
R2-1814412	SON measurements and reporting for NB-IoT	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:32:12	2018-09-27 08:45:11
R2-1814413	Signaling Aspects for transmission in preconfigured resources	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:32:12	2018-09-27 08:45:11
R2-1814414	Power Efficient mechanism for Inter RAT cell selection	Nokia, Nokia Shanghai Bell	noted	2018-09-27 08:32:12	2018-09-27 08:45:11
R2-1814415	Analysis of Downlink EDT options	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:32:12	2018-09-27 08:45:11

R2-1814416	Coexistence of LTE Sidelink V2X and NR Sidelink V2X	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:32:12	2018-09-27 08:45:11
R2-1814417	Correction on system information blocks acquisition	Google Inc.	revised	2018-09-27 08:33:24	2018-09-28 03:13:54
R2-1814418	n1PUCCH-AN-CS-ListP1-r13 asn1 error correction	Nokia, Nokia Shanghai Bell	postponed	2018-09-27 08:35:50	2018-09-28 06:17:36
R2-1814419	SSBPositionsInBurst misalignement with RAN1	Nokia, Nokia Shanghai Bell	revised	2018-09-27 08:35:52	2018-09-28 06:17:36
R2-1814420	T302 stopping procedural text	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:35:53	2018-09-28 06:17:36
R2-1814421	SCG and resume	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:35:54	2018-09-28 06:17:36
R2-1814422	Resume handling details	Nokia, Nokia Shanghai Bell	reserved	2018-09-27 08:35:55	
R2-1814423	Unnecessary limitation in RAN area configuration	Nokia, Nokia Shanghai Bell,	not treated	2018-09-27 08:35:56	2018-09-28 06:17:36
R2-1814424	Unnecessary limitation in RAN area configuration	Nokia, Nokia Shanghai Bell,	not treated	2018-09-27 08:35:56	2018-09-28 06:17:36
R2-1814425	Working assumption of INACTIVE state	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:35:57	2018-09-28 06:17:36
R2-1814426	SIB1 missing or not scheduled UE behaviour	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:35:57	2018-09-28 06:17:36
R2-1814427	SIB1 missing or not scheduled UE behaviour	Nokia, Nokia Shanghai Bell	revised	2018-09-27 08:35:57	2018-09-28 06:17:36
R2-1814428	MIB reception failure for SCG	Nokia, Nokia Shanghai Bell	not pursued	2018-09-27 08:35:58	2018-09-28 06:17:36
R2-1814429	SI request SI reception start and stop points	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:35:59	2018-09-28 06:17:36
R2-1814430	SI request clarification which SIBs trigger reqeust procedure	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:36:00	2018-09-28 06:17:36
R2-1814431	SI storing and validity clarification	Nokia, Nokia Shanghai Bell	revised	2018-09-27 08:36:00	2018-09-28 06:17:36
R2-1814432	SIBs needed before connection setup	Nokia, Nokia Shanghai Bell	revised	2018-09-27 08:36:01	2018-09-28 06:17:36
R2-1814433	Reselection to cell with intiail BWP that has BW not supported by UE	Nokia, Nokia Shanghai Bell	noted	2018-09-27 08:36:02	2018-09-28 06:17:36
R2-1814434	Reselection to cell with intiail BWP that has BW not supported by UE	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:36:02	2018-09-28 06:17:36
R2-1814435	non default association correction	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 08:36:03	2018-09-28 06:17:36
R2-1814436	On a remaining SFTD key use case	Ericsson, MediaTek, Nokia, Nokia Shanghai	noted	2018-09-27 08:47:50	2018-09-27 21:01:56
R2-1814437	[Draft] Reply LS on SFTD measurements	Ericsson	not treated	2018-09-27 08:47:50	2018-09-27 21:01:56
R2-1814438	Modifications to RACH procedure due to LBT	Motorola Mobility, Lenovo	not treated	2018-09-27 08:49:33	2018-09-27 20:16:11
R2-1814439	Triggering conditions for A1-A6 events in NR	Ericsson	not treated	2018-09-27 08:53:51	2018-09-27 14:39:11
R2-1814440	Impact of cell quality scaling in NR	Ericsson	not treated	2018-09-27 08:53:51	2018-09-27 14:39:11
R2-1814441	Measurement priority handling in NR	Ericsson	not treated	2018-09-27 08:53:51	2018-09-27 14:39:11
R2-1814442	Triggering of L3 filtered beam measurements	Ericsson	not treated	2018-09-27 08:53:51	2018-09-27 14:39:11
R2-1814443	New indication to inform the upper layers for Reject in RRC_INACTIVE [L212]	LG Electronics France	not treated	2018-09-27 08:55:35	2018-09-28 03:30:55
R2-1814444	New indication to inform the upper layers for Reject in RRC_INACTIVE [L212]	LG Electronics France	not treated	2018-09-27 08:57:26	2018-09-28 03:30:55
R2-1814445	s-Measure configuration and UE behaviour	Ericsson	not treated	2018-09-27 09:05:00	2018-09-27 14:39:11
R2-1814446	SSBurst and SSB relations in 38.300	Ericsson	withdrawn	2018-09-27 09:05:00	
R2-1814447	Usage of SMTC information from SIB in Release and Redicted	Ericsson	not treated	2018-09-27 09:05:00	2018-09-27 14:39:11

R2-1814448	Measurement related actions upon handover and re-establishment	Ericsson	not treated	2018-09-27 09:05:00	2018-09-27 14:39:11
R2-1814449	On MeasSubframePatternNeigh in measObjectEUTRA in NR	Ericsson	not treated	2018-09-27 09:05:00	2018-09-27 14:39:11
R2-1814450	Determination of PH value	LG Electronics Mobile Research	not treated	2018-09-27 09:08:39	2018-09-28 04:09:39
R2-1814451	PHR type for PCell with SUL	LG Electronics Mobile Research	noted	2018-09-27 09:09:59	2018-09-28 04:09:39
R2-1814452	On field descriptions on measObjectEUTRA	Ericsson	agreed	2018-09-27 09:11:32	2018-09-27 14:39:11
R2-1814453	PHR for UL grant skipping	LG Electronics Mobile Research	noted	2018-09-27 09:12:57	2018-09-28 04:09:39
R2-1814454	CR on 38.300 for Correction of BWP adaptation	LG Electronics Mobile Research	not treated	2018-09-27 09:15:13	2018-09-28 04:09:39
R2-1814455	Editorial and clarifications on measurement gaps	Ericsson	merged	2018-09-27 09:15:40	2018-09-27 14:39:11
R2-1814456	PDCCH monitoring upon flexible TDD	LG Electronics Mobile Research	noted	2018-09-27 09:16:56	2018-09-28 04:09:40
R2-1814457	On the neighbourhood in A3 and A6 events	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:22	2018-09-28 05:59:53
R2-1814458	A3 and A5 corrections - neighbouring cell definition	Nokia, Nokia Shanghai Bell	revised	2018-09-27 09:18:22	2018-09-28 05:59:53
R2-1814459	Corrections to measId linking upon the handover	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:23	2018-09-28 05:59:53
R2-1814460	The analysis of LTE mobility interruption and possible enhancement directions	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:24	2018-09-28 05:59:53
R2-1814461	[DRAFT] LS on the interruption during mobility in LTE	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:24	2018-09-28 05:59:53
R2-1814462	Solution candidates for minimizing HO interruption time in LTE	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:24	2018-09-28 05:59:53
R2-1814463	Potential Improvements of Mobility Robustness in LTE	Nokia, Nokia Shanghai Bell	noted	2018-09-27 09:18:24	2018-09-28 05:59:53
R2-1814464	Discussion on Connection-based versus Connectionless NR Sidelink	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:24	2018-09-28 05:59:53
R2-1814465	Various approaches to SL QoS support in NR V2X	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:24	2018-09-28 05:59:53
R2-1814466	Mobility challenges for NR V2X platooning	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:18:24	2018-09-28 05:59:53
R2-1814467	CR on 38.321 for BWP switching by RRC upon RA procedure	LG Electronics Mobile Research	not treated	2018-09-27 09:19:13	2018-09-28 04:09:39
R2-1814468	Clarification for ongoing RA procedure upon BWP switching	LG Electronics Mobile Research	noted	2018-09-27 09:21:08	2018-09-28 04:09:39
R2-1814469	Counting numerology dependent timer	LG Electronics Mobile Research	noted	2018-09-27 09:22:25	2018-09-28 04:09:39
R2-1814470	BFD procedure in DRX	LG Electronics Mobile Research	noted	2018-09-27 09:23:44	2018-09-28 04:09:39
R2-1814471	Inter-frequencycell Redistribution in RRC_IDLE and RRC_INACTIVE	China Telecom, ZTE Corporation,	not treated	2018-09-27 09:29:53	2018-09-27 10:05:24
R2-1814472	Correction on V2X sidelink communication	Huawei, HiSilicon	revised	2018-09-27 09:31:00	2018-09-28 03:51:27
R2-1814473	PHR timing for configured grant	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:40:47	2018-09-28 05:01:47
R2-1814474	Correction on PHR timing for configured grant	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 09:40:47	2018-09-28 05:01:47
R2-1814475	Power management backoff indication	Nokia, Nokia Shanghai Bell	noted	2018-09-27 09:40:48	2018-09-28 05:01:47
R2-1814476	Correction on power backoff indication due to Power management for non-CA case	Nokia, Nokia Shanghai Bell	postponed	2018-09-27 09:40:48	2018-09-28 05:01:47
R2-1814477	Correction on half-duplex and flexible UL DL configuration	Nokia, Nokia Shanghai Bell	noted	2018-09-27 09:40:49	2018-09-28 05:01:47
R2-1814478	Clarification on basic voice support	Rapporteur	revised	2018-09-27 09:51:12	2018-09-28 06:55:26
R2-1814479	Clarification on UDC configuration	CATT, Intel Corporation	revised	2018-09-27 09:51:52	2018-09-28 05:11:14
R2-1814480	Clarification of the Scope for LTE	CATT	not treated	2018-09-27 09:51:52	2018-09-28 05:08:27
R2-1814481	Solutions on Reduction of User Data Interruption	CATT	not treated	2018-09-27 09:51:52	2018-09-28 05:08:27

R2-1814482	Primary Consideration on UE Capability Compression	CATT	not treated	2018-09-27 09:51:53	2018-09-28 05:11:14
R2-1814483	How to indicate which cell/IAB node support child IAB access	Lenovo, Motorola Mobility	not treated	2018-09-27 09:56:22	2018-09-28 03:20:47
R2-1814484	CR for measurement and measurement gap	Intel Corporation	not treated	2018-09-27 09:59:17	2018-09-28 06:09:12
R2-1814485	Measurement object configured by both	Intel Corporation	not treated	2018-09-27 09:59:18	2018-10-06 12:23:09
R2-1814486	NR-NR DC measurement configuration	Intel Corporation	not treated	2018-09-27 09:59:18	2018-09-28 06:09:12
R2-1814487	Control Plane Latency issues in IAB	Intel Corporation	noted	2018-09-27 09:59:18	2018-09-28 06:09:12
R2-1814488	Remaining open issues on On-demand SI	Intel Corporation	not treated	2018-09-27 09:59:18	2018-09-28 06:09:12
R2-1814489	SI reception upon handover (RIL#I610, I611)	Intel Corporation	revised	2018-09-27 09:59:19	2018-09-28 06:09:12
R2-1814490	Corrections to the SIB1 acquisition	Intel Corporation	revised	2018-09-27 09:59:20	2018-09-28 06:09:12
R2-1814491	Update of UE capabilities	Intel Corporation	not treated	2018-09-27 09:59:21	2018-10-12 10:48:01
R2-1814492	Update of NR L2/3 feature lists	Intel Corporation	endorsed	2018-09-27 09:59:22	2018-09-28 06:09:12
R2-1814493	Paging reception for a UE in camped on	Intel Corporation	noted	2018-09-27 09:59:22	2018-09-28 06:09:12
R2-1814494	Draft LS on the need of paging reception for the call-back when a UE is in limited	Intel Corporation	revised	2018-09-27 09:59:22	2018-09-28 06:09:12
R2-1814495	Initial DL BWP and cell reselection	Intel Corporation	noted	2018-09-27 09:59:22	2018-09-28 06:09:12
R2-1814496	Text proposal for control plane latency	Intel Corporation	revised	2018-09-27 09:59:22	2018-09-28 06:09:12
R2-1814497	Introduction of ims-VoiceOverNR for voice	Intel Corporation	merged	2018-09-27 09:59:23	2018-09-28 06:09:12
R2-1814498	CR on BWP Switching during SI Update	OPPO	not treated	2018-09-27 10:08:48	2018-09-28 00:59:10
R2-1814499	Optimization on UE Capability Procedures	OPPO	not treated	2018-09-27 10:08:49	2018-09-28 00:59:10
R2-1814500	Temporary UE Capability Restriction for	OPPO	not treated	2018-09-27 10:08:49	2018-09-28 00:59:10
R2-1814501	Radio link failure in backhaul link	Lenovo, Motorola Mobility	not treated	2018-09-27 10:08:57	2018-09-28 03:20:47
R2-1814502	Corrections on random access preambles	Google Inc.	not treated	2018-09-27 10:15:29	2018-09-28 05:59:33
R2-1814503	Connection establishment for Unicast in NR V2X	Lenovo, Motorola Mobility	not treated	2018-09-27 10:16:04	2018-09-28 03:15:39
R2-1814504	Discussion on BWPs for NR-U	Google Inc.	withdrawn	2018-09-27 10:24:15	
R2-1814505	On procedural correction on measurements	Ericsson	agreed	2018-09-27 10:25:16	2018-09-27 14:39:11
R2-1814506	Consideration on Measurement configuration in NE-DC	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 10:25:19	2018-09-28 04:50:38
R2-1814507	Consideration on measurement configuration in NG-EN DC	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 10:26:45	2018-09-28 04:50:38
R2-1814508	Corrections on cell selection and	Ericsson	not treated	2018-09-27 10:28:08	2018-09-28 06:29:06
R2-1814509	Handling RAT priorities in low freq NR	Ericsson	not treated	2018-09-27 10:28:09	2018-09-28 06:29:06
R2-1814510	Cell-specific priority based cell re-	Ericsson	not treated	2018-09-27 10:28:09	2018-09-28 06:29:06
R2-1814511	Cell-specific priority based cell re-	Ericsson	not treated	2018-09-27 10:28:09	2018-09-28 06:29:06
R2-1814512	Cell-specific priority based cell re-	Ericsson	not treated	2018-09-27 10:28:10	2018-09-28 06:29:06
R2-1814513	Paging duration in RAN	Ericsson	not treated	2018-09-27 10:28:12	2018-09-28 06:29:06
R2-1814514	LS on paging duration in RAN	Ericsson	not treated	2018-09-27 10:28:12	2018-09-28 06:29:06
R2-1814515	UE identity to calculate PF and PO	Ericsson	not treated	2018-09-27 10:28:12	2018-09-28 06:29:06
R2-1814516	LS on UE identity to calculate PF and PO	Ericsson	revised	2018-09-27 10:28:12	2018-09-28 06:29:06
R2-1814517	Correction on paging for LTE connected to	Ericsson	agreed	2018-09-27 10:28:12	2018-09-28 06:29:06
R2-1814518	Signalling of default spectrum emission	Ericsson	not treated	2018-09-27 10:28:13	2018-09-28 06:29:06
R2-1814519	Clarification for absense of nr-NS-	Ericsson	agreed	2018-09-27 10:28:13	2018-09-28 06:29:06
R2-1814520	Measurement threshold with different	Ericsson	not treated	2018-09-27 10:28:14	2018-09-28 06:29:06
R2-1814521	Correction for Pcompensation	Ericsson	not treated	2018-09-27 10:28:14	2018-09-28 06:29:06
R2-1814522	Paging occasions in NR	Ericsson	not treated	2018-09-27 10:28:15	2018-09-28 06:29:06
R2-1814523	Paging in connected mode	Ericsson	noted	2018-09-27 10:28:15	2018-09-28 06:29:06
R2-1814524	Clarification on paging in connected mode	Ericsson	revised	2018-09-27 10:28:15	2018-09-28 06:29:06
R2-1814525	DRX value range in Idle and Inactive mode	Ericsson	not treated	2018-09-27 10:28:16	2018-09-28 06:29:06
R2-1814526	Extension of the defaultpagingCycle range	Ericsson	not treated	2018-09-27 10:28:16	2018-09-28 06:29:06
R2-1814527	Miscellaneous corrections related to p-	Ericsson	not treated	2018-09-27 10:28:17	2018-09-28 06:29:06
R2-1814528	Miscellaneous corrections	Ericsson	withdrawn	2018-09-27 10:28:18	
R2-1814529	Consideration on Measurement configuration in NR-NR DC	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 10:30:09	2018-09-28 04:50:38
R2-1814530	Setup procedure for adaptation layer	Ericsson	not treated	2018-09-27 10:34:23	2018-09-27 22:53:40
R2-1814531	Discussion on gap configuration for CSI-RS measurement	Nokia, Nokia Shanghai Bell	noted	2018-09-27 10:34:24	2018-09-28 04:50:38

R2-1814532	[DRAFT] LS on gap configuration clarification for CSI-RS measurement	Nokia	not treated	2018-09-27 10:37:00	2018-09-28 04:50:38
R2-1814533	UE Per-FR measurement capability supporting for SA	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 10:38:34	2018-09-28 04:50:38
R2-1814534	Add UE per-FR measurement capability for standalone	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 10:41:48	2018-09-28 04:50:38
R2-1814535	CR to 38.321 on the ambiguity in Msg2 reception	ZTE Corporation, Sanechips	not treated	2018-09-27 10:42:16	2018-09-27 15:36:23
R2-1814536	ASN.1 correction to fr-InfoListSCG in CG-Config	Nokia, Nokia Shanghai Bell	revised	2018-09-27 10:45:08	2018-09-28 04:50:38
R2-1814537	Clarification for Interruption-based and gap-based SFTD measurement	Nokia, Nokia Shanghai Bell	agreed	2018-09-27 10:47:39	2018-09-28 04:50:38
R2-1814538	Clarification to UE capability of independentGapConfig for inter-RAT NR	Nokia, Nokia Shanghai Bell	agreed	2018-09-27 10:50:22	2018-09-28 04:50:38
R2-1814539	On Usage of SMTC information from SIB in Release and Redicted	Ericsson	not treated	2018-09-27 10:56:08	2018-09-27 14:39:11
R2-1814540	SSBurst and SSB relations in 38.300	Ericsson	not treated	2018-09-27 11:01:03	2018-09-27 14:39:11
R2-1814541	Discussion on NR-U Cell Access Solution	Apple Inc.	not treated	2018-09-27 11:02:34	2018-09-28 05:56:29
R2-1814542	Considerations on UE Mobility in NR-U	Apple Inc.	not treated	2018-09-27 11:05:19	2018-09-28 05:56:29
R2-1814543	freqBandIndicator clarifications in measObjectNR	Ericsson	withdrawn	2018-09-27 11:06:27	2018-09-27 14:39:11
R2-1814544	Considerations on NR-U Paging	Apple Inc.	not treated	2018-09-27 11:07:39	2018-09-28 05:56:29
R2-1814545	QoS Flow based Data Split between Licensed and Unlicensed Spectrum	Apple Inc.	not treated	2018-09-27 11:09:40	2018-09-28 05:56:29
R2-1814546	CR on s-Measure	Ericsson	not treated	2018-09-27 11:10:10	2018-09-27 14:39:11
R2-1814547	Inter-node RRC messages for NE-DC	Ericsson	not treated	2018-09-27 11:10:16	2018-09-27 21:24:11
R2-1814548	Inter-node RRC messages for NE-DC	Ericsson	not treated	2018-09-27 11:10:17	2018-09-27 21:24:11
R2-1814549	Inter-node RRC messages for NR-DC	Ericsson	not treated	2018-09-27 11:10:17	2018-09-27 21:24:11
R2-1814550	Inter-node RRC messages for NR-DC	Ericsson	not treated	2018-09-27 11:10:17	2018-09-27 21:24:11
R2-1814551	Inter-node RRC messages for MR-DC	Ericsson	not treated	2018-09-27 11:10:17	2018-09-27 21:24:11
R2-1814552	Support of SRBs for MR-DC	Ericsson	not treated	2018-09-27 11:10:18	2018-09-27 21:24:11
R2-1814553	SCG failure handling in case of NE-DC	Ericsson	not treated	2018-09-27 11:10:18	2018-09-27 21:24:11
R2-1814554	SCG failure handling in case of NE-DC	Ericsson	not treated	2018-09-27 11:10:18	2018-09-27 21:24:11
R2-1814555	SCG failure handling in case of NR-DC	Ericsson	not treated	2018-09-27 11:10:18	2018-09-27 21:24:11
R2-1814556	RRC UE processing time for Standalone NR to reach ITU target	Ericsson	noted	2018-09-27 11:10:18	2018-09-27 21:24:11
R2-1814557	RRC UE processing time for SA	Ericsson	not treated	2018-09-27 11:10:18	2018-09-27 21:24:11
R2-1814558	RRC UE processing times in NR SA	Ericsson	not treated	2018-09-27 11:10:18	2018-09-27 21:24:11
R2-1814559	MCG failure handling in case of NE-DC and NR-DC	Ericsson	not treated	2018-09-27 11:10:19	2018-09-27 21:24:11
R2-1814560	MCG failure handling in case of NE-DC and NR-DC	Ericsson	not treated	2018-09-27 11:10:19	2018-09-27 21:24:11
R2-1814561	MCG failure handling in case of NE-DC and NR-DC	Ericsson	not treated	2018-09-27 11:10:20	2018-09-27 21:24:11
R2-1814562	SCG failure handling in case of NE-DC and NR-DC	Ericsson	not treated	2018-09-27 11:10:20	2018-09-27 21:24:11
R2-1814563	SCG failure handling in case of NE-DC and NR-DC	Ericsson	not treated	2018-09-27 11:10:20	2018-09-27 21:24:11
R2-1814564	NR RRC design principles for NE-DC	Ericsson	not treated	2018-09-27 11:10:21	2018-09-27 21:24:11
R2-1814565	NR RRC details for NE-DC	Ericsson	not treated	2018-09-27 11:10:21	2018-09-27 21:24:11
R2-1814566	Bearer configuration for NR-DC	Ericsson	not treated	2018-09-27 11:10:21	2018-09-27 21:24:11
R2-1814567	MN and SN measurement configuration in	Ericsson	not treated	2018-09-27 11:10:21	2018-09-27 21:24:11
R2-1814568	Handling of transaction identifiers in NR-	Ericsson	not treated	2018-09-27 11:10:21	2018-09-27 21:24:11
R2-1814569	Clarification of combined MN/SN RRC	Ericsson	not treated	2018-09-27 11:10:21	2018-09-27 21:24:11
R2-1814570	Clarification on SupportedbandListNR	Ericsson	not treated	2018-09-27 11:10:22	2018-09-27 21:24:11
R2-1814571	Clarification on SupportedbandListNR	Ericsson	not treated	2018-09-27 11:10:23	2018-09-27 21:24:11
R2-1814572	[N164] Random access during RRC	Ericsson	not treated	2018-09-27 11:10:25	2018-09-27 21:24:11
R2-1814573	Update on L2 capabilities	Ericsson	agreed	2018-09-27 11:10:26	2018-09-27 21:24:11
R2-1814574	Update on L2 capabilities	Ericsson	agreed	2018-09-27 11:10:27	2018-09-27 21:24:11

R2-1814575	Summary on email discussion [103#48] on RRC details for NR-DC	Ericsson	noted	2018-09-27 11:10:28	2018-09-27 21:24:11
R2-1814576	Clarification on bearer type selection for MR-DC with 5GC	Ericsson	not treated	2018-09-27 11:10:28	2018-09-27 21:24:11
R2-1814577	UE capabilities and band combinations for	Ericsson	not treated	2018-09-27 11:10:29	2018-09-27 21:24:11
R2-1814578	UE overheating and capability restrictions	Ericsson	not treated	2018-09-27 11:10:29	2018-09-27 21:24:11
R2-1814579	UE overheating and capability restrictions	Ericsson	not treated	2018-09-27 11:10:29	2018-09-27 21:24:11
R2-1814580	RACH Enhancement in NR-U	Apple Inc.	not treated	2018-09-27 11:11:40	2018-09-28 05:56:29
R2-1814581	Correction to additional SIB1 in eFeNB-IoT	ZTE Corporation	revised	2018-09-27 11:13:24	2018-09-28 07:57:21
R2-1814582	Improvements on HO Robustness in LTE	Apple Inc.	not treated	2018-09-27 11:14:02	2018-09-28 05:56:29
R2-1814583	CR on s-Measure to 36.331	Ericsson	not treated	2018-09-27 11:15:14	2018-09-27 14:39:11
R2-1814584	Key Change in DC based HO	Apple Inc.	not treated	2018-09-27 11:16:03	2018-09-28 05:56:29
R2-1814585	Discussion on processing Delay Requirements for RRC Procedures in NR	Huawei, Hisilicon	revised	2018-09-27 11:16:16	2018-09-28 08:49:58
R2-1814586	Remaining issues of dedicated SR without	ZTE Corporation	noted	2018-09-27 11:16:19	2018-09-28 09:04:49
R2-1814587	ROHC continuation	Samsung Research	withdrawn	2018-09-27 11:17:50	
R2-1814588	ROHC continuation	Samsung Research	not treated	2018-09-27 11:18:29	2018-09-28 00:01:34
R2-1814589	Clarification for dedicated SR procedure in	ZTE Corporation	not treated	2018-09-27 11:18:41	2018-09-28 08:13:49
R2-1814590	CR on 38.331 to capture processing delay	Huawei, Hisilicon	not treated	2018-09-27 11:19:35	2018-10-12 10:48:01
R2-1814591	Discussion on the details of voice capability	HUAWEI TECH. GmbH	noted	2018-09-27 11:26:40	2018-09-27 23:03:49
R2-1814592	Overview of ARQ modes for NR relay	Samsung	not treated	2018-09-27 11:28:03	2018-09-28 03:16:56
R2-1814593	Overview of flow control solutions for	Samsung	not treated	2018-09-27 11:32:14	2018-09-28 03:16:56
R2-1814594	DRAFT Reply LS to SA2 on TSN	Huawei, HiSilicon	not treated	2018-09-27 11:32:51	2018-09-27 15:40:46
R2-1814595	CR to 36.331 introducing voice over NR capability	HUAWEI TECH. GmbH	revised	2018-09-27 11:33:32	2018-09-27 23:03:49
R2-1814596	Quality report in Msg3	Huawei, HiSilicon	noted	2018-09-27 11:34:01	2018-09-28 03:26:15
R2-1814597	MPDCCH performance improvement	Huawei, HiSilicon	noted	2018-09-27 11:34:01	2018-09-28 03:26:15
R2-1814598	CE mode A and B improvement for non-BL	Huawei, HiSilicon	noted	2018-09-27 11:34:01	2018-09-28 03:26:15
R2-1814599	Draft LS on connected mode paging	Huawei, HiSilicon	not treated	2018-09-27 11:34:01	2018-09-28 03:26:15
R2-1814600	Use of LTE Control Channel Region for DL	Huawei, HiSilicon	noted	2018-09-27 11:34:01	2018-09-28 03:26:15
R2-1814601	Use of RSS for measurement	Huawei, HiSilicon	not treated	2018-09-27 11:34:01	2018-09-28 03:26:15
R2-1814602	Estimation of UE radio capabilities size	HUAWEI TECH. GmbH	not treated	2018-09-27 11:37:04	2018-09-27 22:06:17
R2-1814603	Segmentation of UE Radio Capability information	HUAWEI TECH. GmbH	not treated	2018-09-27 11:39:38	2018-09-27 22:06:17
R2-1814604	Signalling procedure for UE capability ID report	HUAWEI TECH. GmbH	not treated	2018-09-27 11:41:39	2018-09-27 22:06:17
R2-1814605	Discussion on the recommendations on FS_eVoLP	HUAWEI TECH. GmbH	noted	2018-09-27 11:45:45	2018-09-27 22:06:17
R2-1814606	CR for TS38.331 on CORESET#0	Huawei, HiSilicon	not treated	2018-09-27 11:51:54	2018-09-28 06:56:10
R2-1814607	CR for TS38.331 on DMRS capabilities	Huawei, HiSilicon	withdrawn	2018-09-27 11:51:55	
R2-1814608	CR for TS38.306 on DMRS capabilities	Huawei, HiSilicon	withdrawn	2018-09-27 11:51:56	
R2-1814609	Correction to key derivation during RRC Connection Re-establishment	Samsung R&D Institute India	not treated	2018-09-27 11:53:49	2018-09-28 04:08:23
R2-1814610	NCC and Key Handling for UP-EDT	MediaTek Inc.	noted	2018-09-27 11:55:09	2018-09-28 04:56:49
R2-1814611	TB size mismatch when switching between CFRA and CBRA	Lenovo, Motorola Mobility	not treated	2018-09-27 11:57:22	2018-09-27 13:57:10
R2-1814612	TB size mismatch for UL grant scheduled by RAR – Option1	Lenovo, Motorola Mobility	not treated	2018-09-27 12:02:59	2018-09-27 13:57:29
R2-1814613	TB size mismatch for UL grant scheduled by RAR – Option2	Lenovo, Motorola Mobility	not treated	2018-09-27 12:05:55	2018-09-27 13:57:45
R2-1814614	User plane integrity protection for MR-DC	China Telecom	not treated	2018-09-27 12:06:55	2018-09-28 01:22:31
R2-1814615	Work plan for even further LTE mobility	China Telecom	agreed	2018-09-27 12:06:55	2018-09-28 01:22:31
R2-1814616	Initial considerations on study phase for	China Telecom	noted	2018-09-27 12:06:55	2018-09-28 01:22:31
R2-1814617	Possible solutions and guidance for	China Telecom	noted	2018-09-27 12:06:55	2018-09-28 01:22:31
R2-1814618	HARQ buffer flushing at RACH completion	Lenovo, Motorola Mobility	noted	2018-09-27 12:08:17	2018-09-27 13:58:01
R2-1814619	Correction to Completion of RACH procedure	Lenovo, Motorola Mobility	not treated	2018-09-27 12:10:06	2018-09-27 13:58:11

R2-1814620	Discussion on KPIs defined in 22.804 for TSN integration in 5G system	Huawei, HiSilicon	not treated	2018-09-27 12:13:40	2018-09-27 15:40:46
R2-1814621	Determination of PH value for CA case	Lenovo, Motorola Mobility	not treated	2018-09-27 12:14:18	2018-09-27 13:58:24
R2-1814622	RACH-less enhancements for reduced interruption time	Samsung	not treated	2018-09-27 12:15:22	2018-09-28 03:48:05
R2-1814623	CR on Correction to clarify configuration aspects for handover between NR and E-	Ericsson	revised	2018-09-27 12:15:49	2018-09-28 00:24:45
R2-1814624	Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331)	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814625	Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814626	CR on Inter-RAT handover between E-UTRAN with EN-DC configuration to	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814627	CR on Update of nas-SecurityParamFromNR according to LS	Ericsson	withdrawn	2018-09-27 12:15:51	
R2-1814628	Slicing based waitTimer	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814629	On scope of new SI on optimizations of UE radio capability signalling – NR/E-UTRA	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814630	Assumptions and key issues on Study on optimisations on UE radio capability	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814631	UE capability ID based solutions for signaling optimization	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814632	Segmentation-based solutions for UE capability signaling optimization	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814633	LS to SA2 on requirements for EPS/5GS and E-UTRA/NR	Ericsson	withdrawn	2018-09-27 12:15:51	
R2-1814634	Security aspects of ID-based solutions	Ericsson	withdrawn	2018-09-27 12:15:51	
R2-1814635	Further aspects of PLMN information in 2-step resume procedures	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814636	Support for signaling only connection	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814637	[DRAFT] LS on secured signalling-only	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814638	CR to 38.331 on pendingRNAUpdate	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814639	Handling of subsequent NAS request in the middle of procedures	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814640	CR to 38.331 on AS-NAS interaction for	Ericsson	withdrawn	2018-09-27 12:15:51	
R2-1814641	AS/NAS interaction upon reception of RRC	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814642	Handling of timer T380	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814643	CR to 38.331 on handling of timer T380	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814644	Location Information configuration and	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814645	[E533] Autonomous gaps for CGI reporting	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814646	CR to 38.331 on autonomous gaps for CGI	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814647	LS to RAN4 about autonomous gaps for	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814648	SSBs without SIB1 in CGI reporting	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814649	[E255] CR to 38.331 on corrections related to CGI reporting timer T321	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814650	CR to 36.331 on addition of CGI reporting	Ericsson	revised	2018-09-27 12:15:51	2018-09-28 00:24:45
R2-1814651	Consideration on Reliability Problem of Hop-by-hop RLC ARQ	ZTE Corporation	not treated	2018-09-27 12:16:24	2018-09-28 06:11:18
R2-1814652	Correction to determination of PH value type	Lenovo, Motorola Mobility	noted	2018-09-27 12:17:03	2018-09-27 13:58:42
R2-1814653	Procedures for full config at RRC Resume (38.331)	Ericsson	agreed	2018-09-27 12:18:35	2018-09-27 22:18:45
R2-1814654	Clarification of PDCP-Config field	Ericsson	revised	2018-09-27 12:18:37	2018-09-27 22:18:45
R2-1814655	UL path switch in case of SCG failure in	Ericsson	noted	2018-09-27 12:18:38	2018-09-27 22:18:45
R2-1814656	UL path switch in case of SCG failure in	Ericsson	not treated	2018-09-27 12:18:38	2018-09-27 22:18:45
R2-1814657	UL path switch in case of SCG failure in	Ericsson	not treated	2018-09-27 12:18:39	2018-09-27 22:18:45
R2-1814658	Primary path switch for SRBs (38.331)	Ericsson	not treated	2018-09-27 12:18:40	2018-09-27 22:18:45
R2-1814659	SCell-RLF discussion	Ericsson	not treated	2018-09-27 12:18:41	2018-09-27 22:18:45
R2-1814660	SCell-RLF (38.331)	Ericsson	not treated	2018-09-27 12:18:41	2018-09-27 22:18:45
R2-1814661	UE context handling during inter RAT handover	Ericsson	noted	2018-09-27 12:18:42	2018-09-27 22:18:45
R2-1814662	UE context handling during handover to NR (38.331)	Ericsson	revised	2018-09-27 12:18:42	2018-09-27 22:18:45

R2-1814663	UE context handling during handover to LTE-5GC (36.331)	Ericsson	revised	2018-09-27 12:18:43	2018-09-27 22:18:45
R2-1814664	UE context handling during inter-RAT HO in case of non-5GC case (36.331)	Ericsson	withdrawn	2018-09-27 12:18:44	
R2-1814665	Defining inter-system and intra-system	Ericsson	not treated	2018-09-27 12:18:45	2018-09-27 22:18:45
R2-1814666	Secondary Node Resume in NE-DC and NR-DC (38.331)	Ericsson	not treated	2018-09-27 12:18:46	2018-09-27 22:18:45
R2-1814667	Release of secondary cell group in NE-DC	Ericsson	not treated	2018-09-27 12:18:46	2018-09-27 22:18:45
R2-1814668	Release of secondary cell group in NR-DC and NE-DC (38.331)	Ericsson	not treated	2018-09-27 12:18:46	2018-09-27 22:18:45
R2-1814669	Support for inter-system MR-DC HO	Ericsson	not treated	2018-09-27 12:18:46	2018-09-27 22:18:45
R2-1814670	Support for inter-system MR-DC HO (37.340)	Ericsson	not treated	2018-09-27 12:18:46	2018-09-27 22:18:45
R2-1814671	Security interworking between EPC and	Ericsson	not treated	2018-09-27 12:18:46	2018-09-27 22:18:45
R2-1814672	[DRAFT] Reply LS to SA3 on LS on Dual Connectivity	Ericsson	not treated	2018-09-27 12:18:48	2018-09-27 22:18:45
R2-1814673	Correction regarding key deletion at state transition to RRC IDLE (38.300)	Ericsson	not treated	2018-09-27 12:18:48	2018-09-27 22:18:45
R2-1814674	Open issues on SCG measurement results and reporting for MR-DC	Ericsson	not treated	2018-09-27 12:18:49	2018-09-27 22:18:45
R2-1814675	SCG measurement results and reporting for MR-DC (37.340)	Ericsson	not treated	2018-09-27 12:18:49	2018-09-27 22:18:45
R2-1814676	SCG measurement results and reporting for MR-DC (38.331)	Ericsson	not treated	2018-09-27 12:18:49	2018-09-27 22:18:45
R2-1814677	SCG measurement results and reporting	Ericsson	not treated	2018-09-27 12:18:49	2018-09-27 22:18:45
R2-1814678	MR-DC measurement principles	Ericsson	not treated	2018-09-27 12:18:49	2018-09-27 22:18:45
R2-1814679	MR-DC measurement principles (37.340)	Ericsson	not treated	2018-09-27 12:18:49	2018-09-27 22:18:45
R2-1814680	Bearer handling in E-UTRA connected to	Ericsson	merged	2018-09-27 12:18:49	2018-09-27 22:18:45
R2-1814681	Re-establishment causes in Msg3 and	Ericsson	not treated	2018-09-27 12:18:50	2018-09-27 22:18:45
R2-1814682	Re-establishment causes in Msg3 and	Ericsson	not treated	2018-09-27 12:18:50	2018-09-27 22:18:45
R2-1814683	RIL G301: SRB3 integrity protection failure	Ericsson	withdrawn	2018-09-27 12:18:51	
R2-1814684	Comparison of hop by hop and end to end	ZTE Corporation	not treated	2018-09-27 12:18:52	2018-09-28 06:11:18
R2-1814685	Clarification on RLC mode change	Ericsson, Nokia	not pursued	2018-09-27 12:18:53	2018-09-27 21:24:11
R2-1814686	PHR for skipped PUSCH transmission	Lenovo, Motorola Mobility	not treated	2018-09-27 12:20:14	2018-09-27 13:58:50
R2-1814687	Clarification on the security for MR-DC under 5GC	Huawei, HiSilicon	not treated	2018-09-27 12:20:22	2018-09-28 06:11:27
R2-1814688	DRAFT reply LS on Dual Connectivity	Huawei, HiSilicon	not treated	2018-09-27 12:20:22	2018-09-28 06:11:27
R2-1814689	Discussion on the UL path of split SRB in	Huawei, HiSilicon	noted	2018-09-27 12:20:22	2018-09-28 06:11:27
R2-1814690	CR on 37.340 for split SRB UL	Huawei, HiSilicon	agreed	2018-09-27 12:20:22	2018-09-28 06:11:27
R2-1814691	User plane integrity protection check failure handling in SCG for NR-NR DC	Huawei, HiSilicon	not treated	2018-09-27 12:20:23	2018-09-28 06:11:27
R2-1814692	UP IP check failure handling in SCG for	Huawei, HiSilicon	not treated	2018-09-27 12:20:23	2018-09-28 06:11:27
R2-1814693	[103#51][NR late drop] MR-DC security aspects	Huawei (Rapporteur)	not treated	2018-09-27 12:20:24	2018-10-06 12:23:09
R2-1814694	Control Plane for NGEN-DC and NE-DC	Huawei, HiSilicon	not treated	2018-09-27 12:20:24	2018-09-28 06:11:27
R2-1814695	CR on 37.340 for PDCP version of SRBs in E-UTRA connected to 5GC	Huawei, HiSilicon	not treated	2018-09-27 12:20:24	2018-09-28 06:11:27
R2-1814696	Discussion on MCG/SCG failure handling	Huawei, HiSilicon	not treated	2018-09-27 12:20:25	2018-09-28 06:11:27
R2-1814697	CR on 37.340 on SCG/MCG failure handling	Huawei, HiSilicon	not treated	2018-09-27 12:20:25	2018-09-28 06:11:27
R2-1814698	Coordination between MN and SN in NE-	Huawei, HiSilicon	not treated	2018-09-27 12:20:26	2018-09-28 06:11:27
R2-1814699	Inter-node message for NGEN-DC and NE-DC	Huawei, HiSilicon	not treated	2018-09-27 12:20:26	2018-09-28 06:11:27
R2-1814700	Discussion on SN counter for EN-DC and	Huawei, HiSilicon	not treated	2018-09-27 12:20:26	2018-09-28 06:11:27
R2-1814701	CR on 36.331 to use different counter value for LTE DC and EN-DC	Huawei, HiSilicon	not treated	2018-09-27 12:20:26	2018-09-28 06:11:27
R2-1814702	Discussion on flow control in IAB	ZTE Corporation	not treated	2018-09-27 12:20:42	2018-09-28 06:11:18
R2-1814703	Discussion on backhaul bearer setup in	ZTE Corporation	not treated	2018-09-27 12:22:48	2018-09-28 06:11:18
R2-1814704	Optimization on the use of sCellDeactivationTimer and bwp-	Huawei, HiSilicon	not treated	2018-09-27 12:23:33	2018-09-28 03:53:41

R2-1814705	CR on RRC triggered BWP switching	Huawei, HiSilicon	not treated	2018-09-27 12:23:33	2018-09-28 03:53:41
R2-1814706	Correction of BWP switching when SUL is	Huawei, HiSilicon	revised	2018-09-27 12:23:35	2018-09-28 03:53:41
R2-1814707	Correction to Bj update during LCP	Huawei, HiSilicon	not pursued	2018-09-27 12:23:37	2018-09-28 03:53:41
R2-1814708	CR on the missing LCP mapping	Huawei, HiSilicon	not pursued	2018-09-27 12:23:37	2018-09-28 03:53:41
R2-1814709	Remaining issues on LCH-to-Cell	Huawei, HiSilicon	noted	2018-09-27 12:23:38	2018-09-28 03:53:41
R2-1814710	CR on duplication for 38.300	Huawei, HiSilicon	postponed	2018-09-27 12:23:38	2018-09-28 03:53:41
R2-1814711	Correction to LCH-to-Cell restriction for	Huawei, HiSilicon	postponed	2018-09-27 12:23:39	2018-09-28 03:53:41
R2-1814712	CR on BWP in unpaired spectrum	Huawei, HiSilicon	not treated	2018-09-27 12:23:40	2018-09-28 03:53:41
R2-1814713	CR on SR triggered RA – Option 1	Huawei, HiSilicon	not treated	2018-09-27 12:23:41	2018-09-28 03:53:41
R2-1814714	CR on SR triggered RA – Option 2	Huawei, HiSilicon	not treated	2018-09-27 12:23:42	2018-09-28 03:53:41
R2-1814715	Correction on the per SR configuration	Huawei, HiSilicon	postponed	2018-09-27 12:23:43	2018-09-28 03:53:41
R2-1814716	Correction on BSR triggered SR	Huawei, HiSilicon	postponed	2018-09-27 12:23:44	2018-09-28 03:53:41
R2-1814717	CR on BSR for optional LCG case	Huawei, HiSilicon	not pursued	2018-09-27 12:23:44	2018-09-28 03:53:41
R2-1814718	Corrections on the RACH parameters	Huawei, HiSilicon	not treated	2018-09-27 12:23:45	2018-09-28 03:53:41
R2-1814719	Corrections on the BFR parameters	Huawei, HiSilicon	not treated	2018-09-27 12:23:46	2018-09-28 03:53:41
R2-1814720	Discussion on SI request failure case	Huawei, HiSilicon	noted	2018-09-27 12:23:47	2018-09-28 03:53:41
R2-1814721	Corrections on SI request failure case	Huawei, HiSilicon	not treated	2018-09-27 12:23:47	2018-09-28 03:53:41
R2-1814722	Latency analysis for IAB network	ZTE Corporation	not treated	2018-09-27 12:25:09	2018-09-28 06:11:18
R2-1814723	Discussion on user plane bearer mapping	ZTE Corporation	not treated	2018-09-27 12:27:26	2018-09-28 06:11:18
R2-1814724	Comparison of control plane alternatives of	ZTE Corporation	not treated	2018-09-27 12:33:48	2018-09-28 06:11:18
R2-1814725	How to use the AC barring parameters when TAU and RNAU are triggered	Xiaomi Communications	not treated	2018-09-27 12:34:26	2018-09-28 08:06:19
R2-1814726	Usage of Qoffset temp upon T319 expiry	Ericsson	not treated	2018-09-27 12:34:37	2018-09-28 06:29:06
R2-1814727	CR to 38.331 on the usage of Qoffset upon	Ericsson	not treated	2018-09-27 12:34:37	2018-09-28 06:29:06
R2-1814728	Discussion on bearer mapping for control	ZTE Corporation	noted	2018-09-27 12:35:33	2018-09-28 06:11:18
R2-1814729	The handling of AS and NAS triggered simultaneously	Xiaomi Communications	not treated	2018-09-27 12:37:08	2018-09-28 08:01:21
R2-1814730	Discussion on IAB node discovery and	ZTE Corporation	not treated	2018-09-27 12:37:36	2018-09-28 06:11:18
R2-1814731	Consideration on Routing in IAB	ZTE Corporation	not treated	2018-09-27 12:39:23	2018-09-28 06:11:18
R2-1814732	The remaining issues of T390	Xiaomi Communications	reserved	2018-09-27 12:39:23	
R2-1814733	Resource allocation in IAB	Sony	not treated	2018-09-27 12:39:58	2018-09-27 16:05:10
R2-1814734	Route management in IAB	Sony	not treated	2018-09-27 12:39:58	2018-09-27 16:05:10
R2-1814735	Open issues related to IAB power on	Sony	not treated	2018-09-27 12:39:58	2018-09-27 16:05:10
R2-1814736	Considerations on initial access procedures for NR unlicensed operations	Sony	not treated	2018-09-27 12:39:58	2018-09-27 16:05:10
R2-1814737	Gummei-Type field setting when UE	Sony	not treated	2018-09-27 12:39:58	2018-09-27 16:05:10
R2-1814738	Multiple active BWPs	Sony	not treated	2018-09-27 12:39:59	2018-09-27 16:05:10
R2-1814739	UL Intra-UE Prioritization and multiplexing	Sony	not treated	2018-09-27 12:39:59	2018-09-27 16:05:10
R2-1814740	Consideration on RAN2 impacts of NTN	Sony	not treated	2018-09-27 12:39:59	2018-09-27 16:05:10
R2-1814741	New SIB update for UAC in eLTE	Xiaomi Communications	noted	2018-09-27 12:41:42	2018-09-28 08:07:07
R2-1814742	The discussion on wait timer T302	Xiaomi Communications	not treated	2018-09-27 12:44:16	2018-09-28 08:08:00
R2-1814743	Clarification on mode-3 sensing report	Beijing Xiaomi Software Tech	not treated	2018-09-27 13:07:25	2018-09-27 16:13:31
R2-1814744	Remaining aspects of capabilities for Rel-15 Aerial WI	Ericsson, NTT Docomo, Nokia, Nokia Shanghai	not treated	2018-09-27 13:10:19	2018-09-27 13:46:08
R2-1814745	Remaining aspects of capabilities for Rel-15 Aerial WI	Ericsson, NTT Docomo, Nokia, Nokia Shanghai	agreed	2018-09-27 13:13:16	2018-09-27 13:46:08
R2-1814746	Report of [103#45][NR] RLC failure information reporting	Samsung Telecommunicatio	noted	2018-09-27 13:22:53	2018-09-28 07:16:06
R2-1814747	Introducing procedure for reporting RLC failures	Samsung Telecommunicatio	revised	2018-09-27 13:22:53	2018-09-28 07:16:06
R2-1814748	Corrections regarding RLC failure reporting	Samsung Telecommunicatio	revised	2018-09-27 13:22:54	2018-09-28 07:16:06
R2-1814749	Consolidated output from LTE RRC ASN.1 review	Samsung Telecommunicatio	reserved	2018-09-27 13:22:55	
R2-1814750	Defining baseline CR for NN DC	Samsung Telecommunicatio	reserved	2018-09-27 13:22:55	
R2-1814751	IDC reporting with NR	Samsung Telecommunicatio	not treated	2018-09-27 13:22:55	2018-09-28 07:23:55
R2-1814752	Corrections to IDC reporting with NR	Samsung Telecommunicatio	not treated	2018-09-27 13:22:55	2018-09-28 07:23:55

R2-1814753	UE assistance parameters for overheating with NR	Samsung Telecommunicatio	not treated	2018-09-27 13:22:55	2018-09-28 07:23:55
R2-1814754	Introduction of capability for timer t3xx for Rel-15 Aerial WI	Ericsson	not treated	2018-09-27 13:28:48	2018-09-27 13:46:08
R2-1814755	Discussion on QoS management for NR V2X	Lenovo, Motorola Mobility	not treated	2018-09-27 13:30:00	2018-09-28 03:15:39
R2-1814756	Enhancement to CP Alt. 2 for Architecture	Samsung	noted	2018-09-27 13:31:05	2018-09-28 08:28:13
R2-1814757	Control plane data mapping for	Samsung	revised	2018-09-27 13:31:05	2018-09-28 08:31:32
R2-1814758	F1AP mapping options for IAB	Samsung	not treated	2018-09-27 13:31:05	2018-09-28 08:31:32
R2-1814759	Synchronization issues in NR V2X	Lenovo, Motorola Mobility	not treated	2018-09-27 13:32:25	2018-09-28 03:15:39
R2-1814760	Prohibit timer for measurement reporting	Ericsson, NTT Docomo, Nokia, Nokia Shanghai	not treated	2018-09-27 13:33:27	2018-09-27 13:46:08
R2-1814761	Consideration on early data transmission for MT	Lenovo, Motorola Mobility	not treated	2018-09-27 13:36:53	2018-09-28 05:38:14
R2-1814762	Remaining aspects of measurement reporting	Ericsson, NTT Docomo, Nokia, Nokia Shanghai	not pursued	2018-09-27 13:38:26	2018-09-27 13:46:08
R2-1814763	Some NR SA related corrections	Samsung Telecommunicatio	revised	2018-09-27 13:40:40	2018-09-28 07:16:06
R2-1814764	Consideration on SON in NB-IOT	Lenovo, Motorola Mobility	not treated	2018-09-27 13:40:44	2018-09-28 05:06:30
R2-1814765	Consideration on SON in NB-IOT	Lenovo, Motorola Mobility	reserved	2018-09-27 13:41:02	
R2-1814766	Consideration on wake up signal	Lenovo, Motorola Mobility	not treated	2018-09-27 13:47:35	2018-09-28 05:06:30
R2-1814767	Mobility scaling for idle mode measurements	Sequans Communications	not treated	2018-09-27 13:49:32	2018-09-28 06:39:33
R2-1814768	Corrections to LCH restriction when	Ericsson, Lenovo	not pursued	2018-09-27 13:50:20	2018-09-27 18:10:07
R2-1814769	LCP restrictions in case of non-duplication	Ericsson, Lenovo	noted	2018-09-27 13:50:21	2018-09-27 18:10:07
R2-1814770	Corrections to LCH-to-cell restrictions	Ericsson, Lenovo	not treated	2018-09-27 13:50:21	2018-09-27 18:10:07
R2-1814771	Introduction of PDCP suspend to PDCP	Ericsson	not treated	2018-09-27 13:50:22	2018-09-27 18:10:07
R2-1814772	PDCP handling of RRC suspend	Ericsson	not treated	2018-09-27 13:50:24	2018-09-27 18:10:07
R2-1814773	PDCP discard timer	Ericsson	noted	2018-09-27 13:50:24	2018-09-27 18:10:07
R2-1814774	Introduction of PDCP suspend to RRC	Ericsson	not treated	2018-09-27 13:50:24	2018-09-27 18:10:07
R2-1814775	Correction on PDCCH monitoring for when DRX is not configured	Ericsson	not treated	2018-09-27 13:50:25	2018-09-27 19:08:51
R2-1814776	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell	revised	2018-09-27 13:52:12	2018-09-27 14:48:59
R2-1814777	Correction for Successful termination of	Ericsson	not treated	2018-09-27 13:52:20	2018-09-28 05:03:27
R2-1814778	Removal of description of RRC	Ericsson	noted	2018-09-27 13:52:21	2018-09-28 05:03:27
R2-1814779	Correction for Removal of RRC	Ericsson	not treated	2018-09-27 13:52:21	2018-09-28 05:03:27
R2-1814780	Correction for RRC triggered BWP switch	Ericsson	not treated	2018-09-27 13:52:22	2018-09-28 05:03:27
R2-1814781	Solution to RA-RNTI ambiguity	Ericsson	noted	2018-09-27 13:52:23	2018-09-28 05:03:27
R2-1814782	Signaling to resolve RA-RNTI ambiguity	Ericsson	revised	2018-09-27 13:52:23	2018-09-28 05:03:27
R2-1814783	Corrections on Rebuilding MAC PDU for different grant size in RAR	Ericsson	not treated	2018-09-27 13:52:24	2018-09-28 05:03:27
R2-1814784	Switch between SUL and NUL during	Ericsson	not treated	2018-09-27 13:52:25	2018-09-28 05:03:27
R2-1814785	Ambiguity of SUL selection for Random	Ericsson	not treated	2018-09-27 13:52:25	2018-09-28 05:03:27
R2-1814786	Corrections for BWP switch and NUL/SUL selection for Random Access	Ericsson	not treated	2018-09-27 13:52:25	2018-09-28 05:03:27
R2-1814787	Correction for Reconfiguration of CFRA	Ericsson	revised	2018-09-27 13:52:25	2018-09-28 05:03:28
R2-1814788	Power ramping for CSI-RS selection in	Ericsson	not treated	2018-09-27 13:52:26	2018-09-28 05:03:28
R2-1814789	Correction for preamble group A or B	Ericsson	not treated	2018-09-27 13:52:27	2018-09-28 05:03:28
R2-1814790	On Measurement Gaps for URLLC	Ericsson	noted	2018-09-27 13:52:28	2018-09-28 05:03:28
R2-1814791	PDCCH monitoring and duplex mode	Ericsson	noted	2018-09-27 13:52:28	2018-09-28 05:03:28
R2-1814792	Correction to PDCCH monitoring	Ericsson	revised	2018-09-27 13:52:28	2018-09-28 05:03:28
R2-1814793	Correction on Default BWP description	Ericsson	noted	2018-09-27 13:52:29	2018-09-28 05:03:28
R2-1814794	Correction on Default BWP handling	Ericsson	not treated	2018-09-27 13:52:29	2018-09-28 05:03:28
R2-1814795	Corrections on BFR procedure in DRX	Ericsson	not treated	2018-09-27 13:52:30	2018-09-28 05:03:28
R2-1814796	BFD in DRX	Ericsson	not treated	2018-09-27 13:52:31	2018-09-28 05:03:28
R2-1814797	Configured Scheduling during Random	Ericsson	noted	2018-09-27 13:52:31	2018-09-28 05:03:28
R2-1814798	Correction on Configured Scheduling during Random Access Procedure	Ericsson	not treated	2018-09-27 13:52:31	2018-09-28 05:03:28
R2-1814799	Correction on Configured Grant	Ericsson	not pursued	2018-09-27 13:52:32	2018-09-28 05:03:28

R2-1814800	SR and DRX for delay tolerant services	Ericsson	noted	2018-09-27 13:52:33	2018-09-28 05:03:28
R2-1814801	Long and Short DRX cycle and CSI	Ericsson	noted	2018-09-27 13:52:33	2018-09-28 05:03:28
R2-1814802	Avoiding using long DRX cycle (option 1)	Ericsson	not treated	2018-09-27 13:52:33	2018-09-28 05:03:28
R2-1814803	Avoiding using long DRX cycle (option 2)	Ericsson	not treated	2018-09-27 13:52:34	2018-09-28 05:03:28
R2-1814804	PHR for uplink grant skipping	Ericsson	noted	2018-09-27 13:52:35	2018-09-28 05:03:28
R2-1814805	Determination of PH value in Carrier	Ericsson	not treated	2018-09-27 13:52:35	2018-09-28 05:03:28
R2-1814806	Introduction of Data Inactivity timer in	Ericsson	revised	2018-09-27 13:52:35	2018-09-28 05:03:28
R2-1814807	DRAFT reply LS on TSN integration in the	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814808	Evaluation of requirements	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814809	Industrial IoT with NR	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814810	Uses Cases and Scenarios	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814811	Ethernet Header Compression	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814812	Intra UE prioritization	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814813	UE Time Synchronization	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814814	Resource efficient data duplication	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814815	Scheduling enhancements for TSN traffic	Ericsson	not treated	2018-09-27 13:54:46	2018-09-27 21:09:56
R2-1814816	Impacts of propagation delay in TDD mode	Ericsson	noted	2018-09-27 13:54:46	2018-09-27 21:07:36
R2-1814817	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell	revised	2018-09-27 13:57:17	2018-09-27 14:48:59
R2-1814818	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell	revised	2018-09-27 14:00:31	2018-09-27 14:48:59
R2-1814819	Backhual link selection for IAB access	Lenovo, Motorola Mobility	not treated	2018-09-27 14:02:58	2018-09-28 03:20:47
R2-1814820	RRC processing delay for RRC Resume	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 14:05:08	2018-09-27 14:48:59
R2-1814821	Analysis on topology in IAB system	Lenovo, Motorola Mobility	not treated	2018-09-27 14:07:16	2018-09-28 03:20:47
R2-1814822	Introduction of processing delay requirements for RRC Resume procedure	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 14:11:49	2018-09-27 14:48:59
R2-1814823	Correction of frequency band indication in	Huawei, HiSilicon	revised	2018-09-27 14:12:34	2018-09-28 06:11:27
R2-1814824	Introduction of algorithm in RRCRelease	Huawei, HiSilicon	not treated	2018-09-27 14:12:36	2018-09-28 06:11:27
R2-1814825	Introduction of algorithm in	Huawei, HiSilicon	not treated	2018-09-27 14:12:37	2018-09-28 06:11:27
R2-1814826	Removal of UE context in case of PLMN change in INACTIVE state [H323]	Huawei, HiSilicon	revised	2018-09-27 14:12:38	2018-09-28 06:11:27
R2-1814827	CR to correct alleviation of access barring	Huawei, HiSilicon	not treated	2018-09-27 14:12:40	2018-09-28 06:11:27
R2-1814828	Correction to configuration of	Huawei, HiSilicon	revised	2018-09-27 14:12:41	2018-09-28 06:11:27
R2-1814829	Data inactivity monitoring	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 14:16:04	2018-09-27 14:48:59
R2-1814830	State transition for inactive UE	Lenovo, Motorola Mobility	not treated	2018-09-27 14:17:42	2018-09-28 03:19:00
R2-1814831	Introduction of data inactivity monitoring	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 14:18:27	2018-09-27 14:48:59
R2-1814832	Consideration on RRC_INACTIVE state handling	Nokia, Nokia Shanghai Bell	noted	2018-09-27 14:22:03	2018-09-27 14:48:59
R2-1814833	RRC_INACTIVE state handling	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 14:27:08	2018-09-27 14:48:59
R2-1814834	Mobility history information in NR	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 14:30:24	2018-09-27 14:48:59
R2-1814835	Overview description of SSB transmission in time domain in TS 38.300	Ericsson	not treated	2018-09-27 14:33:21	2018-09-27 14:40:39
R2-1814836	Diversity in RACH transmissions	Lenovo, Motorola Mobility	not treated	2018-09-27 15:14:01	2018-09-27 15:36:27
R2-1814837	Clarification on RAN2 study scope	Lenovo, Motorola Mobility	not treated	2018-09-27 15:17:09	2018-09-27 15:36:27
R2-1814838	Consideration of RLF recovery in IAB	Kyocera	not treated	2018-09-27 15:27:46	2018-09-27 22:41:06
R2-1814839	Sub-PRB for DoNAS	Sierra Wireless,	noted	2018-09-27 15:29:45	2018-09-27 15:47:38
R2-1814840	Reselection considerations for NR-U	Kyocera	not treated	2018-09-27 15:29:56	2018-09-27 22:41:06
R2-1814841	Connected mobility considerations for NR-	Kyocera	not treated	2018-09-27 15:31:18	2018-09-27 22:41:06
R2-1814842	Correction of UE capability for eV2X in TS 36.306	Qualcomm Incorporated	revised	2018-09-27 15:40:30	2018-09-28 01:10:23
R2-1814843	CR to 36.306 on correction of capability name for NW based CRS interference	Ericsson	agreed	2018-09-27 15:43:02	2018-09-27 15:48:33
R2-1814844	Sidelink resource allocation in NR	Beijing Xiaomi Software Tech	not treated	2018-09-27 16:09:41	2018-09-27 16:13:31
R2-1814845	Avoiding unnecessary derivation of user	Huawei, HiSilicon	withdrawn	2018-09-27 16:10:39	2018-09-28 01:13:00
R2-1814846	Correction in 38331 for CSI-RS mobility	Huawei, HiSilicon	withdrawn	2018-09-27 16:10:41	2018-09-28 01:26:52

R2-1814847	Correction in 38331 for SRS-config	Huawei, HiSilicon	revised	2018-09-27 16:10:42	2018-09-28 01:34:22
R2-1814848	CR for TS38.331 on	Huawei, HiSilicon	not treated	2018-09-27 16:10:43	2018-09-28 01:56:54
R2-1814849	[DRAFT] Reply LS to RAN 1 on	Huawei, HiSilicon	not treated	2018-09-27 16:10:44	2018-09-28 02:00:58
R2-1814850	CR for TS38.331 on InitialDownlinkBWP	Huawei, HiSilicon	not treated	2018-09-27 16:10:44	2018-09-28 02:04:56
R2-1814851	CR for TS38.331 on PowerControl-related	Huawei, HiSilicon	revised	2018-09-27 16:10:45	2018-09-28 02:11:30
R2-1814852	CR for TS38.331 on ssb-PositionInBurst	Huawei, HiSilicon	not treated	2018-09-27 16:10:46	2018-09-28 02:13:19
R2-1814853	CR for TS38.304 on paging	Huawei, HiSilicon	not treated	2018-09-27 16:10:47	2018-09-28 02:15:50
R2-1814854	Miscellaneous Corrections to 38331	Huawei, HiSilicon	merged	2018-09-27 16:10:48	2018-09-28 02:18:46
R2-1814855	Discussion on RLF for NR-U	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:22:51
R2-1814856	Discussion on mobility in idle and inactive	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:25:45
R2-1814857	Discussion on DRX for NR-U	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:26:42
R2-1814858	Transmission with configured grant for NR-	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:35:09
R2-1814859	Discussion on BWP operation for NR-U	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:28:46
R2-1814860	Discussion on paging and SI for NR-U	Huawei, HiSilicon	withdrawn	2018-09-27 16:10:49	
R2-1814861	Discussion on mobility in connected mode	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:36:09
R2-1814862	Discussion on SR for NR-U	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:37:39
R2-1814863	Discussion on general MAC aspects for	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:38:31
R2-1814864	Discussion on measurements for NR-U	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:39:27
R2-1814865	Two-step RACH procedure for NR-U	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:40:29
R2-1814866	Four-step RACH procedure for NR-U	Huawei, HiSilicon	not treated	2018-09-27 16:10:49	2018-09-28 03:43:16
R2-1814867	Correction for the termination of BFR	Huawei, HiSilicon	not pursued	2018-09-27 16:10:49	2018-09-28 02:29:48
R2-1814868	Correction on RRC parameters for RACH	Huawei, HiSilicon	withdrawn	2018-09-27 16:10:50	
R2-1814869	CR for DRX operation on CSI reporting	Huawei, HiSilicon	merged	2018-09-27 16:10:52	2018-09-28 06:21:45
R2-1814870	Remainning issues with PHR for SUL	Huawei, HiSilicon	not treated	2018-09-27 16:10:53	2018-09-28 02:34:39
R2-1814871	Impact of Uplink Grant Skipping on PHR	Huawei, HiSilicon	noted	2018-09-27 16:10:54	2018-09-28 02:50:54
R2-1814872	CR for Impact of Uplink Grant Skipping on	Huawei, HiSilicon	not treated	2018-09-27 16:10:54	2018-09-28 02:52:52
R2-1814873	Reducing the impact of option 5 on EPC Service Request Procedure and the need to restore Core Network Overload	Vodafone España SA	noted	2018-09-27 16:11:50	2018-09-27 21:10:44
R2-1814874	TDD uplink-downlink configuration for OTDOA	Qualcomm Incorporated	noted	2018-09-27 16:21:52	2018-09-27 18:30:02
R2-1814875	Addition of TDD UL/DL configuration to OTDOA assistance data	Qualcomm Incorporated	not pursued	2018-09-27 16:23:35	2018-09-27 18:30:02
R2-1814876	Addition of TDD UL/DL configuration to OTDOA assistance data	Qualcomm Incorporated	revised	2018-09-27 16:25:52	2018-09-27 18:30:02
R2-1814877	Considerations on NTN deployment scenarios	Nokia, Nokia Shanghai Bell	noted	2018-09-27 16:32:38	2018-09-28 06:12:46
R2-1814878	Comparison of Cplane protocol stack alternatives for Architecture 1a	Nokia, Nokia Shanghai Bell	agreed	2018-09-27 16:37:39	2018-09-28 06:10:51
R2-1814879	Correction on measurement reporting for best neighbour NR cells in events A3, A4	Huawei, HiSilicon	revised	2018-09-27 16:37:58	2018-09-28 06:11:27
R2-1814880	IAB Architecture comparison	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 16:42:25	2018-09-28 06:11:40
R2-1814881	IAB Routing for Architecture 2a	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 16:46:39	2018-09-28 06:12:05
R2-1814882	HARQ buffer sharing between configured	MediaTek Inc.	noted	2018-09-27 16:59:35	2018-09-28 06:05:16
R2-1814883	CR on HARQ process ID for configured	MediaTek Inc.	not treated	2018-09-27 16:59:35	2018-09-28 06:05:16
R2-1814884	On rebuilding MAC PDU due to RACH	MediaTek Inc.	noted	2018-09-27 16:59:36	2018-09-28 06:05:16
R2-1814885	CR on rebuilding MAC PDU due to RACH	MediaTek Inc.	not treated	2018-09-27 16:59:36	2018-09-28 06:05:16
R2-1814886	CR on condition of successful BFR	MediaTek Inc.	not treated	2018-09-27 16:59:37	2018-09-28 06:05:16
R2-1814887	CR on 36.321 for clarification of UL HARQ process for SUO case 1	MediaTek Inc.	revised	2018-09-27 16:59:38	2018-09-28 06:05:16
R2-1814888	Impacts of propagation delay on user plane	Ericsson	noted	2018-09-27 17:00:55	2018-09-27 21:12:48
R2-1814889	Impacts of propagation delay on control	Ericsson	not treated	2018-09-27 17:00:55	2018-09-27 21:12:48
R2-1814890	Overview on impacts of propagation delay	Ericsson	not treated	2018-09-27 17:00:55	2018-09-27 21:12:48
R2-1814891	Summary of [103#47][NR late drop] - 37.340 agreements	ZTE Corporation	noted	2018-09-27 17:06:39	2018-09-28 00:42:35
R2-1814892	Miscellaneus clarifications	ZTE Corporation, Sanechips, Huawei, HiSilicon	agreed	2018-09-27 17:06:39	2018-09-28 00:42:35
R2-1814893	Introduction of NR-DC	ZTE Corporation	merged	2018-09-27 17:06:40	2018-09-28 00:42:35

R2-1814894	Agreements for MR-DC with 5GC	ZTE Corporation	revised	2018-09-27 17:06:41	2018-09-28 00:42:35
R2-1814895	Clarification on SSB-based BM, RLM and BFD	ZTE Corporation, Sanechips	agreed	2018-09-27 17:06:42	2018-09-28 00:42:35
R2-1814896	RAN assisted codec adaptation in MR-DC	ZTE Corporation, Sanechips	not treated	2018-09-27 17:06:43	2018-09-28 00:42:35
R2-1814897	UE capability coordination for NR-DC	ZTE Corporation, Sanechips	not treated	2018-09-27 17:06:43	2018-09-28 00:42:35
R2-1814898	UP Security indication for split PDU session	ZTE Corporation, Sanechips	not treated	2018-09-27 17:06:43	2018-09-28 00:42:35
R2-1814899	Change of logical channel ID via reconfiguration of RLC bearer	ZTE Corporation, Sanechips	revised	2018-09-27 17:06:43	2018-09-28 00:42:35
R2-1814900	CR to 38.331 on AS-NAS interaction for	Ericsson LM	revised	2018-09-27 17:19:07	2018-09-28 00:24:45
R2-1814901	Measurement gaps for dense PRS	Huawei, HiSilicon	noted	2018-09-27 17:20:19	2018-09-28 06:28:12
R2-1814902	Missing UE capability introduction for	Huawei, HiSilicon	revised	2018-09-27 17:20:19	2018-09-28 06:28:12
R2-1814903	Missing UE capability introduction for	Huawei, HiSilicon	not pursued	2018-09-27 17:20:20	2018-09-28 06:28:12
R2-1814904	Minor corrections to services provided by physical layer	Huawei, HiSilicon	agreed	2018-09-27 17:20:22	2018-09-28 06:28:12
R2-1814905	Corrections for CRS muting fields	Huawei, HiSilicon	not pursued	2018-09-27 17:20:23	2018-09-28 06:28:12
R2-1814906	Corrections for CRS muting fields	Huawei, HiSilicon	not pursued	2018-09-27 17:20:24	2018-09-28 06:28:12
R2-1814907	Alignment of IE/field names between LPP and RRC specifications	Qualcomm Incorporated	agreed	2018-09-27 17:35:34	2018-09-27 18:30:02
R2-1814908	Inter-band EN-DC Configured Output	Ericsson	postponed	2018-09-27 17:44:48	2018-09-27 21:10:35
R2-1814909	IMT-2020 self-evalution: CP latency	Ericsson	not treated	2018-09-27 17:44:49	2018-09-27 21:10:35
R2-1814910	E573 Configuration of SRB1 during	Ericsson	revised	2018-09-27 17:44:49	2018-09-27 21:10:35
R2-1814911	CR for 38.331 for UE AS context Alt	Ericsson	not treated	2018-09-27 17:44:50	2018-09-27 21:10:35
R2-1814912	CR for 38.331 for UE AS context Al2	Ericsson	revised	2018-09-27 17:44:51	2018-09-27 21:10:35
R2-1814913	Discussion paper for AS context during	Ericsson	not treated	2018-09-27 17:44:52	2018-09-27 21:10:35
R2-1814914	CR for AS context during Reject	Ericsson	not treated	2018-09-27 17:44:52	2018-09-27 21:10:35
R2-1814915	MAC configuration during reject	Ericsson	not treated	2018-09-27 17:44:53	2018-09-27 21:10:35
R2-1814916	CR to 38.331 on MAC configuration during	Ericsson	not treated	2018-09-27 17:44:53	2018-09-27 21:10:35
R2-1814917	Security Handling in re-establishment	Ericsson	not treated	2018-09-27 17:44:54	2018-09-27 21:10:35
R2-1814918	Timer for RRC Setup establishment	Ericsson	not treated	2018-09-27 17:44:54	2018-09-27 21:10:35
R2-1814919	Timer for RRC Resume Request (T319)	Ericsson	not treated	2018-09-27 17:44:54	2018-09-27 21:10:35
R2-1814920	Handling of timer T320 (cell reselection priorities) upon RRCRelease	Ericsson	noted	2018-09-27 17:44:54	2018-09-27 21:10:35
R2-1814921	CR to 38.331 on missing	Ericsson	not treated	2018-09-27 17:44:54	2018-09-27 21:10:35
R2-1814922	Derivation of user plane keys	Ericsson	not treated	2018-09-27 17:44:55	2018-09-27 21:10:35
R2-1814923	RRC Connection Release triggered by	Ericsson	not treated	2018-09-27 17:44:55	2018-09-27 21:10:35
R2-1814924	CR for triggers for abortion of RRC establishment	Ericsson	agreed	2018-09-27 17:44:55	2018-09-27 22:33:30
R2-1814925	Consideration for supporting MT EDT in NB-IoT and eMTC	ZTE Corporation	not treated	2018-09-27 17:51:23	2018-09-28 07:39:24
R2-1814926	CR on Update of nas-SecurityParamFromNR according to LS	Ericsson LM	revised	2018-09-27 18:06:33	
R2-1814927	Hashed UE capability information as unique UE capability identity	Deutsche Telekom, SONY	not treated	2018-09-27 18:10:00	2018-09-27 19:09:11
R2-1814928	Corrections on determination of PH value in Carrier Aggregation	Ericsson	not treated	2018-09-27 18:16:29	2018-09-28 05:03:27
R2-1814929	Discussion on Groupcast for NR V2X	Qualcomm Incorporated	not treated	2018-09-27 18:30:43	2018-09-28 01:10:23
R2-1814930	Discussion on QoS design for NR PC5 communication	Qualcomm Incorporated	not treated	2018-09-27 18:42:08	2018-09-28 01:10:23
R2-1814931	Spot beam versus cell in NTN NR	Ericsson	not treated	2018-09-27 19:03:37	2018-09-27 19:22:57
R2-1814932	Scenarios for NTN NR REL-16 SI	Ericsson	noted	2018-09-27 19:03:37	2018-09-27 19:22:57
R2-1814933	Mobility aspects for NTN NR	Ericsson	not treated	2018-09-27 19:03:37	2018-09-27 19:22:57
R2-1814934	Requirements for NTN NR	Ericsson	not treated	2018-09-27 19:03:37	2018-09-27 19:22:57
R2-1814935	Correction to beam failure detection in Stage-2	Rapporteur (Nokia), Qualcomm, Nokia	agreed	2018-09-27 19:07:20	2018-09-28 06:37:34

R2-1814936	Msg3 rebuilding	Nokia, Nokia Shanghai Bell	withdrawn	2018-09-27 19:07:21	2018-09-28 06:37:34
R2-1814937	CR to 38.321 on Msg3 rebuilding	Nokia, Nokia Shanghai Bell	not pursued	2018-09-27 19:07:21	2018-09-28 06:37:34
R2-1814938	CR to 38.322 on Msg3 rebuilding	Nokia, Nokia Shanghai Bell	not pursued	2018-09-27 19:07:22	2018-09-28 06:37:34
R2-1814939	Correction to RA prioritization	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 19:07:23	2018-09-28 06:59:41
R2-1814940	Correction to preamble power ramping	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 19:07:24	2018-09-28 06:37:34
R2-1814941	Clarification to BFR procedure	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 19:07:24	2018-09-28 06:37:34
R2-1814942	Correction to BFR procedure	Nokia, Nokia Shanghai Bell	revised	2018-09-27 19:07:24	2018-09-28 06:37:34
R2-1814943	Uu Enhancements for NR V2X	Interdigital	not treated	2018-09-27 19:35:58	2018-09-28 01:58:06
R2-1814944	Split DRB-IP data rate for UL and DL	Qualcomm Incorporated	not treated	2018-09-27 19:37:55	2018-09-28 05:57:34
R2-1814945	SCG/MCG failure handling in MR-DC	Qualcomm Incorporated	not treated	2018-09-27 19:37:55	2018-09-28 05:57:34
R2-1814946	UE RRC Processing Delays in NR for EN-DC and SA	Qualcomm Incorporated	not treated	2018-09-27 19:37:55	2018-09-28 05:57:34
R2-1814947	Considerations on PWS notification	Qualcomm Incorporated,	noted	2018-09-27 19:37:55	2018-09-28 05:57:34
R2-1814948	Corrections for PWS notifications	Qualcomm Incorporated,	not treated	2018-09-27 19:37:55	2018-09-28 05:57:34
R2-1814949	Considerations on SI scheduling	Qualcomm Incorporated	not treated	2018-09-27 19:37:56	2018-09-28 05:57:34
R2-1814950	Corrections for SI scheduling	Qualcomm Incorporated	not treated	2018-09-27 19:37:56	2018-09-28 05:57:34
R2-1814951	Correction on CN type indication for Redirection from NR to E-UTRA	Qualcomm Incorporated	revised	2018-09-27 19:37:57	2018-09-28 05:57:34
R2-1814952	RRC impact in MR-DC	Qualcomm Incorporated	not treated	2018-09-27 19:37:57	2018-09-28 05:57:34
R2-1814953	Correction on inter-RAT HO for support of delta configuration	Qualcomm Incorporated	withdrawn	2018-09-27 19:37:57	
R2-1814954	Enhancements of LTE Uu and NR Uu to control NR sidelink	Qualcomm Incorporated	not treated	2018-09-27 19:53:47	2018-09-28 01:10:23
R2-1814955	[DRAFT] Reply LS on Further Agreements on Paging Occasions	Futurewei Technologies	revised	2018-09-27 19:57:40	2018-09-28 06:58:21
R2-1814956	Enhancements of NR Uu to control LTE sidelink	Qualcomm Incorporated	not treated	2018-09-27 20:05:27	2018-09-28 01:10:23
R2-1814957	UE capability correction for Intraband contiguous MR_DC	T-Mobile USA Inc.	postponed	2018-09-27 20:28:19	2018-09-27 20:48:29
R2-1814958	Miscellaneous minor corrections	Ericsson	revised	2018-09-27 20:28:35	2018-09-27 21:38:33
R2-1814959	38331 Rapporteur RIL list after email	Ericsson	noted	2018-09-27 20:28:36	2018-09-27 21:38:33
R2-1814960	Invalidation of L1 parameter	Ericsson	agreed	2018-09-27 20:28:36	2018-09-27 21:38:33
R2-1814961	Clarifications on RNA update and CN registration (N023)	Ericsson	agreed	2018-09-27 20:28:37	2018-09-27 21:38:33
R2-1814962	Missing optionality bit in CG-ConfigInfo	Ericsson, Qualcomm Inc	revised	2018-09-27 20:28:37	2018-09-27 21:38:33
R2-1814963	CR on Slice Aware Access Control	Nokia, Nokia Shanghai Bell,	agreed	2018-09-27 20:32:04	2018-09-28 06:55:26
R2-1814964	UE capability correction for Intraband contiguous MR_DC	T-Mobile USA Inc.	not treated	2018-09-27 20:40:14	2018-09-27 20:48:29
R2-1814965	Discussion on ID based UE capability transfer	Intel Corporation	not treated	2018-09-27 20:44:27	2018-09-28 06:09:12
R2-1814966	Introduction of overheating indication for	Intel Corporation	not treated	2018-09-27 20:44:27	2018-09-28 06:09:12
R2-1814967	Corrections on BWP op1/op2	Intel Corporation, NTT DoCoMo Inc	not treated	2018-09-27 20:44:28	2018-09-28 06:09:12

R2-1814968	Invalid measurement configuration	Intel Corporation, MediaTek Inc, Qualcomm Incorporated	not pursued	2018-09-27 20:44:29	2018-09-28 06:09:12
R2-1814969	Introduction of ims-VoiceOverNR for voice	Intel Corporation	merged	2018-09-27 20:44:30	2018-09-28 06:09:12
R2-1814970	Introduction of overheating indication for	Intel Corporation	not treated	2018-09-27 20:44:31	2018-09-28 06:09:12
R2-1814971	Clarification on hopping parameters for	Ericsson	revised	2018-09-27 20:45:28	2018-09-27 22:33:14
R2-1814972	Clarification on ssb-PositionsInBurst	Ericsson	agreed	2018-09-27 20:45:29	2018-09-27 22:33:14
R2-1814973	Correction to	Ericsson	revised	2018-09-27 20:45:30	2018-09-27 22:33:14
R2-1814974	Correction to cross carrier scheduling	Ericsson	not treated	2018-09-27 20:45:31	2018-09-27 22:33:14
R2-1814975	Draft Reply LS on cross carrier scheduling	Ericsson	not treated	2018-09-27 20:45:31	2018-09-27 22:33:14
R2-1814976	Correction to TDD configuration in SIB1	Ericsson	agreed	2018-09-27 20:45:32	2018-09-27 22:33:14
R2-1814977	Clarification on handling of default	Ericsson	revised	2018-09-27 20:45:32	2018-09-27 22:54:09
R2-1814978	Bandwidth configuration for initial BWP	Ericsson	not treated	2018-09-27 20:45:33	2018-09-27 22:52:07
R2-1814979	Relation of feature sets and band combinations	Ericsson	noted	2018-09-27 20:45:33	2018-09-27 22:24:00
R2-1814980	Correction to UE capability procedures	Ericsson	revised	2018-09-27 20:45:33	2018-09-27 22:24:00
R2-1814981	MN/SN coordination for reportCGI	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:39	2018-09-27 23:33:26
R2-1814982	CR on MN/SN coordination for report CGI procedure	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:47	2018-09-27 23:33:26
R2-1814983	UE behaviour upon lack of TAC in SIB1	Nokia, Nokia Shanghai Bell	noted	2018-09-27 20:48:48	2018-09-27 23:35:50
R2-1814984	CR on UE behaviour upon lack of TAC in SIB1	Nokia, Nokia Shanghai Bell	not pursued	2018-09-27 20:48:48	2018-09-27 23:35:50
R2-1814985	TCI states configuration for CORESET#0	Nokia, Nokia Shanghai Bell	postponed	2018-09-27 20:48:49	2018-09-27 23:35:50
R2-1814986	CR on TCI states configuration for CORESET#0	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:49	2018-09-27 23:35:50
R2-1814987	CR on TCI State Indication for UE-specific PDCCH MAC CE to support	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:50	2018-09-27 23:35:50
R2-1814988	Finalization of ssb-PositionsInBurst mismatch issue	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:50	2018-09-27 23:35:50
R2-1814989	CR on ssb-PositionsInBurst mismatch issue	Nokia, Nokia Shanghai Bell	revised	2018-09-27 20:48:50	2018-09-27 23:35:50
R2-1814990	TR 38.825 skeleton	Nokia, Nokia Shanghai Bell	agreed	2018-09-27 20:48:51	2018-09-28 06:41:17
R2-1814991	Work Plan for NR Industrial IoT SI	Nokia, Nokia Shanghai Bell	agreed	2018-09-27 20:48:52	2018-09-28 06:41:17
R2-1814992	TSN performance requirements evaluation	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:52	2018-09-28 06:41:17
R2-1814993	TSN synchronization requirements evaluation	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:52	2018-09-28 06:41:17
R2-1814994	[DRAFT] LS on TSN performance evaluation	Nokia, Nokia Shanghai Bell	revised	2018-09-27 20:48:52	2018-09-28 06:41:17
R2-1814995	Scenarios for intra-UE prioritization/multiplexing	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:52	2018-09-28 06:41:17
R2-1814996	TP on TSN requirements	Nokia, Nokia Shanghai Bell	revised	2018-09-27 20:48:52	2018-09-28 06:41:17
R2-1814997	IAB node discovery and monitoring	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:52	2018-09-28 06:23:06
R2-1814998	Service interruption time minimization for backhaul links	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:52	2018-09-28 06:23:06
R2-1814999	Adaptation layer in IAB MT	Nokia, Nokia Shanghai Bell	noted	2018-09-27 20:48:52	2018-09-27 23:36:57
R2-1815000	Comparison of Architecture 1a alternatives for user plane	Nokia, Nokia Shanghai Bell	not treated	2018-09-27 20:48:52	2018-09-28 06:23:06
R2-1815001	Adding alternative way of measuring throughput for small data busts to UE	Ericsson, Nokia	revised	2018-09-27 20:51:09	2018-09-28 06:37:15
R2-1815002	Clarification on LCH-to-cell restriction	Apple, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated	noted	2018-09-27 20:51:46	2018-09-28 06:07:13

R2-1815003	Clarification on LCH-to-cell restriction	Apple, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated	not treated	2018-09-27 20:51:46	2018-09-28 06:07:13
R2-1815004	Clarification on LCH-to-cell restriction	Apple, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated	not treated	2018-09-27 20:51:47	2018-09-28 06:07:13
R2-1815005	Huge RRC message transmission	Apple	not treated	2018-09-27 20:51:48	2018-09-28 06:07:13
R2-1815006	Support segmentation and concatenation on RRC message transmission	Apple	not treated	2018-09-27 20:51:48	2018-09-28 06:07:13
R2-1815007	UE operation upon RRC reject reception	Apple	noted	2018-09-27 20:51:49	2018-09-28 06:07:13
R2-1815008	BFR handling upon TAT expiry	Apple, Intel	not treated	2018-09-27 20:51:49	2018-09-28 06:07:13
R2-1815009	BFR handling upon TAT expiry	Apple, Intel	not treated	2018-09-27 20:51:50	2018-09-28 06:07:13
R2-1815010	UE operation upon RRC reject reception	Apple	not treated	2018-09-27 20:51:51	2018-09-28 06:07:13
R2-1815011	UE operation upon RRC reject reception	Apple	not treated	2018-09-27 20:51:51	2018-09-28 06:07:13
R2-1815012	Clarification on measurement event	Apple	not treated	2018-09-27 20:51:52	2018-09-28 06:07:13
R2-1815013	On demand SI reception	Apple	not treated	2018-09-27 20:51:52	2018-09-28 06:07:13
R2-1815014	Clarification on SI acquisition time	Ericsson	revised	2018-09-27 21:09:17	2018-09-28 06:41:29
R2-1815015	Evaluation of Uu interface for NR V2X	Intel Corporation	revised	2018-09-27 21:24:01	2018-09-28 06:12:34
R2-1815016	Various sTTI corrections	Intel Corporation	revised	2018-09-27 21:24:01	2018-10-02 21:25:43
R2-1815017	Various sTTI corrections	Intel Corporation	revised	2018-09-27 21:24:02	2018-10-02 21:25:43
R2-1815018	MAC Impact of UE Capability Limitation in TX Carrier Selection	Ericsson	revised	2018-09-27 21:40:59	2018-09-27 22:39:57
R2-1815019	Miscellaneous Corrections to SL PDCP Transmission and Reception	Ericsson	revised	2018-09-27 21:41:00	2018-09-27 22:39:57
R2-1815020	MAC Impact of UE Capability Limitation in TX Carrier Selection	Ericsson	not treated	2018-09-27 21:41:01	2018-09-27 22:39:57
R2-1815021	TX Profiles Provisioning	Ericsson, Huawei, Nokia	not treated	2018-09-27 21:41:01	2018-09-27 22:39:57
R2-1815022	[DRAFT] LS on TX Profiles Provisioning	Ericsson	revised	2018-09-27 21:41:01	2018-09-27 22:39:57
R2-1815023	Handling Coexistence Between AUL and Dynamically Scheduled UL Grants	Ericsson, Intel	not treated	2018-09-27 21:41:01	2018-09-27 22:39:57
R2-1815024	Handling Coexistence Between AUL and Dynamically Scheduled UL Grants	Ericsson, Intel	not treated	2018-09-27 21:41:02	2018-09-27 22:39:57
R2-1815025	Coexistence Between AUL and Dynamically Scheduled UL Grants	Ericsson, Intel	noted	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815026	Discussions on RACH enhancement for	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815027	DRX enhancement for NR-U	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815028	Handling of RA counters and timers in NR-	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815029	On Autonomous UL Transmissions for NR-	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815030	BSR/PHR report for NR-U	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815031	Discussions on wideband operation and	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815032	Scheduling request for NR-U	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815033	On Latency of mode-1 Sidelink Scheduling	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815034	Analysis of NR Uu features for eV2X	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815035	gNB-scheduled Resource Allocation for	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815036	Mode-1 Implications for Supporting SL	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815037	NR Sidelink QoS handling at Access	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815038	On Inter-RAT Network Control of Sidelink	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815039	On Sidelink Discovery	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815040	On the need of bandwidth parts for NR V2X	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815041	On the Support of HARQ/CSI feedbacks	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815042	Path and RAT selection	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815043	QoS principles	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815044	Resource allocation for Enhanced Mobility	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815045	Support of Unicast/Groupcast/Broadcast Sidelink V2X Communications	Ericsson	not treated	2018-09-27 21:41:03	2018-09-27 22:39:57
R2-1815046	Paging in NR-U	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24
R2-1815047	Dedicated RRC signaling for request and delivery of on-demand SI in NR-U	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24
R2-1815048	Extended, overlapping SI-windows in NR-	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24
R2-1815049	Indication of duration of broadcast of requested on-demand SI in NR-U	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24

R2-1815050	How to handle failure to transmit SI update notification in NR-U	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24
R2-1815051	Idle inactive mode mobility in NR-U	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24
R2-1815052	RLM RLF in NR-U	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24
R2-1815053	RRM framework in NR-U	Ericsson	not treated	2018-09-27 21:46:27	2018-09-27 22:45:24
R2-1815054	Performance results for hop-by-hop vs.	AT&T	revised	2018-09-27 21:47:35	2018-09-28 04:31:25
R2-1815055	E2E reliability in hop-by-hop RLC ARQ	AT&T	revised	2018-09-27 21:47:35	2018-09-28 04:31:25
R2-1815056	Multi-Connectivity scenarios for Vehicle to	AT&T	not treated	2018-09-27 21:47:35	2018-09-28 04:31:25
R2-1815057	Resource allocation mechanism for NR	AT&T	not treated	2018-09-27 21:47:35	2018-09-28 04:31:25
R2-1815058	SCG failure handling for split bearer	Qualcomm Incorporated	not treated	2018-09-27 21:57:33	2018-09-27 22:05:13
R2-1815059	CR on SDAP reconfiguration handling	Qualcomm Incorporated	revised	2018-09-27 21:57:34	2018-09-27 22:05:13
R2-1815060	Remaining issue on cell restrictions for DC duplication	Qualcomm Incorporated	not treated	2018-09-27 21:57:34	2018-09-27 22:05:13
R2-1815061	Optimization on UE radio capability signaling	Apple	not treated	2018-09-27 22:00:17	2018-09-28 05:27:29
R2-1815062	Requesting to enter RRC Inactive state	Apple	noted	2018-09-27 22:02:25	2018-09-28 05:27:29
R2-1815063	RIL G301: SRB3 integrity protection failure	Ericsson	not treated	2018-09-27 22:04:46	2018-09-27 22:18:45
R2-1815064	Discussion on cell selection in case of	Huawei, HiSilicon	not treated	2018-09-27 22:35:30	2018-09-28 06:27:01
R2-1815065	Correction to cell selection in case of state	Huawei, HiSilicon	not treated	2018-09-27 22:35:30	2018-09-28 06:27:01
R2-1815066	Clarification on final suitability check	Huawei, HiSilicon	revised	2018-09-27 22:35:33	2018-09-28 06:27:01
R2-1815067	Consideration on cell reselection in multi-	Huawei, HiSilicon	not treated	2018-09-27 22:35:34	2018-09-28 06:27:01
R2-1815068	Corrections to System Information	Huawei, HiSilicon, Rapporteur	agreed	2018-09-27 22:35:34	2018-09-28 06:27:01
R2-1815069	Discussion to clarify the relationship between OSI monitor occasion and SSB	Huawei, HiSilicon	not treated	2018-09-27 22:35:35	2018-09-28 06:27:01
R2-1815070	Addition of the relationship between OSI monitor occasion and SSB	Huawei, HiSilicon	not treated	2018-09-27 22:35:35	2018-09-28 06:27:01
R2-1815071	Considerations on additional mechanism to assist UE to know if the PWS message	Huawei, HiSilicon	not treated	2018-09-27 22:35:36	2018-09-28 06:27:01
R2-1815072	Corrections to the field decriptions of	Huawei, HiSilicon	revised	2018-09-27 22:35:36	2018-09-28 06:27:01
R2-1815073	Corrections to System Information Procedures	Huawei, HiSilicon	merged	2018-09-27 22:35:37	2018-09-28 06:27:01
R2-1815074	Corrections to on-demand SI request and acquisition procedure	Huawei, HiSilicon	not treated	2018-09-27 22:35:37	2018-09-28 06:27:01
R2-1815075	Correction to SI provision in connected mode	Huawei, HiSilicon	agreed	2018-09-27 22:35:38	2018-09-28 06:27:01
R2-1815076	Draft Reply LS on termination of contention-free BFR	InterDigital	not treated	2018-09-27 22:52:57	2018-09-27 23:03:48
R2-1815077	DL following UL EDT	Sierra Wireless, S.A.	not treated	2018-09-27 22:58:28	2018-09-28 01:25:00
R2-1815078	Pre-configured UL Resources Design	Sierra Wireless,	not treated	2018-09-27 23:01:24	2018-09-28 01:42:08
R2-1815079	Correction for BL UEs and UEs in CE in RRC_CONNECTED	Ericsson	not pursued	2018-09-27 23:01:54	2018-09-28 06:40:59
R2-1815080	Correction for BL UEs and UEs in CE in RRC_CONNECTED	Ericsson	not pursued	2018-09-27 23:03:15	2018-09-28 06:40:59
R2-1815081	LTE Access Impact on UP architectures	Sequans Communications	not treated	2018-09-27 23:03:44	2018-09-28 00:11:41
R2-1815082	Correction for BL UEs and UEs in CE in RRC_CONNECTED	Ericsson	postponed	2018-09-27 23:05:09	2018-09-28 06:40:59
R2-1815083	Queue Management vs Flow Control for Congestion Handling	Sequans Communications	not treated	2018-09-27 23:07:32	2018-09-28 00:11:41
R2-1815084	Paging with fractional nB value	Sequans Communications	noted	2018-09-27 23:19:24	2018-09-28 00:10:04
R2-1815085	[Draft] LS on inclusion of numerology and bandwidth of eMBMS services in USD	Qualcomm India Pvt Ltd	noted	2018-09-27 23:20:49	2018-09-28 00:09:18
R2-1815086	CR for measurement and measurement	Intel Corporation	not treated	2018-09-27 23:49:53	2018-09-28 06:09:12
R2-1815087	Summary of e-mail discussion [103#41][LTE/V2X] Limited TX capability	LG Electronics Inc.	not treated	2018-09-28 00:04:32	2018-09-28 06:54:47
R2-1815088	RAT selection for NR V2X sidelink communication	Qualcomm Incorporated	not treated	2018-09-28 00:04:57	2018-09-28 01:10:23
R2-1815089	Integrity Protection data rate enumeration	Qualcomm Incorporated	not treated	2018-09-28 00:14:54	2018-09-28 06:43:06

R2-1815090	CR on Update of nas-SecurityParamFromNR according to LS	Ericsson LM	agreed	2018-09-28 00:33:32	2018-09-28 00:43:29
R2-1815091	Discussion on the support of PDCP SN	Huawei, Hisilicon	not treated	2018-09-28 00:34:07	2018-09-28 02:29:13
R2-1815092	release and addition of the DRB	Huawei, Hisilicon	revised	2018-09-28 00:34:07	2018-09-28 02:29:13
R2-1815093	release and addition of the DRB	Huawei, Hisilicon	not pursued	2018-09-28 00:34:08	2018-09-28 02:29:13
R2-1815094	Discussion on the bearer type negotiation for MR-DC with 5GC	Huawei, Hisilicon	not treated	2018-09-28 00:34:09	2018-09-28 02:29:13
R2-1815095	Discussion on MR-DC UE Ccapabilities for Option4 and Option 7	Huawei, Hisilicon	not treated	2018-09-28 00:34:09	2018-09-28 02:29:13
R2-1815096	[DRAFT] LS to RAN4 on MR-DC UE capabilities	Huawei, Hisilicon	revised	2018-09-28 00:34:09	2018-09-28 02:29:13
R2-1815097	Discussion on SFTD measurement for late drop	Huawei, Hisilicon	not treated	2018-09-28 00:34:09	2018-09-28 02:29:13
R2-1815098	for source EN-DC context (H703)	Huawei, Hisilicon	merged	2018-09-28 00:34:09	2018-09-28 02:29:13
R2-1815099	to introduce a capability of UlOverlappingTxPaPhaseContinuity	Huawei, Hisilicon	not treated	2018-09-28 00:34:10	2018-09-28 02:29:13
R2-1815100	to introduce a capability of UlOverlappingTxPaPhaseContinuity	Huawei, Hisilicon	not treated	2018-09-28 00:34:11	2018-09-28 02:29:13
R2-1815101	Consideration on Signalling only	Huawei, Hisilicon	postponed	2018-09-28 00:34:12	2018-09-28 02:29:13
R2-1815102	CR on supporting signaling only	Huawei, Hisilicon	revised	2018-09-28 00:34:12	2018-09-28 02:29:13
R2-1815103	Discussion on L2 measurements	Huawei, Hisilicon	noted	2018-09-28 00:34:13	2018-09-28 02:29:13
R2-1815104	Draft LS to SA5 on L2 measurements	Huawei, Hisilicon	revised	2018-09-28 00:34:13	2018-09-28 02:29:13
R2-1815105	Introducing capability of A-CSI-RS beam switching timing [H375]	Huawei, Hisilicon	not treated	2018-09-28 00:34:13	2018-09-28 02:29:13
R2-1815106	Introducing capability of A-CSI-RS beam	Huawei, Hisilicon	not treated	2018-09-28 00:34:14	2018-09-28 02:29:13
R2-1815107	clarification of SFTD	Huawei, Hisilicon	not treated	2018-09-28 00:34:15	2018-09-28 02:29:13
R2-1815108	clarification on UE capability coordination	Huawei, Hisilicon	not treated	2018-09-28 00:34:15	2018-09-28 02:29:13
R2-1815109	Discussion on the working assumption for	ITRI	not treated	2018-09-28 00:35:29	2018-09-28 03:59:07
R2-1815110	Discussion on SI acquisition due to UE	ITRI	not treated	2018-09-28 00:35:29	2018-09-28 03:59:07
R2-1815111	RAR window extension for NR-U	ITRI	not treated	2018-09-28 00:35:29	2018-09-28 03:59:07
R2-1815112	Service Interruption Minimization during	ITRI	not treated	2018-09-28 00:35:29	2018-09-28 03:59:07
R2-1815113	CR to 38.321 on RRC controlled BWP	ITRI	not treated	2018-09-28 00:40:22	2018-09-28 03:59:07
R2-1815114	CR on 38331 RRC connection resume	ITRI	not treated	2018-09-28 00:43:32	2018-09-28 03:59:07
R2-1815115	Correction in 38300 for beam failure	Huawei, HiSilicon	not treated	2018-09-28 00:44:05	2018-09-28 02:58:16
R2-1815116	Correction in 38331 for beam failure	Huawei, HiSilicon	not treated	2018-09-28 00:44:06	2018-09-28 06:31:41
R2-1815117	Correction on powerOffset in RACH initialization	Huawei, HiSilicon	merged	2018-09-28 00:44:07	2018-09-28 02:32:39
R2-1815118	Handling BFR Configuration Update	Huawei, HiSilicon	not treated	2018-09-28 00:44:08	2018-09-28 06:54:17
R2-1815119	Discussion on supporting of the ROHC for	LG Electronics	not treated	2018-09-28 00:46:03	2018-09-28 04:25:20
R2-1815120	Correction on Sidelink HARQ operation for SL-SCH Data Reception	Samsung Electronics	merged	2018-09-28 00:50:24	2018-09-28 04:51:48
R2-1815121	Correction to Ambiguous Terminologies with respect to Cell Ranking	Samsung Electronics	revised	2018-09-28 00:50:24	2018-09-28 04:51:48
R2-1815122	Correction to Default MAC Cell Group	Samsung	revised	2018-09-28 00:50:25	2018-09-28 04:51:48
R2-1815123	Correction to missing field descriptions of guami-Type in RRCSetupComplete	Samsung Electronics	not treated	2018-09-28 00:50:26	2018-09-28 04:51:48
R2-1815124	Correction to missing field descriptions of	Samsung	agreed	2018-09-28 00:50:27	2018-09-28 04:51:48
R2-1815125	Discussion on Paging Monitoring in	Samsung	not treated	2018-09-28 00:50:28	2018-09-28 04:51:48
R2-1815126	Discussion on releaseCause in RRCRelease	Samsung Electronics	noted	2018-09-28 00:50:28	2018-09-28 04:51:48
R2-1815127	Discussion on Support of Vulnerable Road	Samsung	not treated	2018-09-28 00:50:28	2018-09-28 04:51:48
R2-1815128	Remaining issues on T302 Handling	Samsung	not treated	2018-09-28 00:50:28	2018-09-28 04:51:48
R2-1815129	Open issues in PDCP suspend procedure	LG Electronics	noted	2018-09-28 00:52:39	2018-09-28 00:59:59
R2-1815130	Introducing PDCP suspend procedure	LG Electronics	revised	2018-09-28 00:52:39	2018-09-28 00:59:59
R2-1815131	Introducing PDCP suspend procedure	LG Electronics	revised	2018-09-28 00:52:40	2018-09-28 01:00:00
R2-1815132	Flexible hop-by-hop RLC ARQ	LG Electronics	not treated	2018-09-28 00:52:41	2018-09-28 01:00:00
R2-1815133	UL scheduling enhancement in NR-U	LG Electronics	not treated	2018-09-28 00:52:41	2018-09-28 01:00:00
R2-1815134	Correction to PDCP statusReportRequired	LG Electronics	revised	2018-09-28 00:52:41	2018-09-28 01:00:00
R2-1815135	Topology management for IAB	KT Corp.	not treated	2018-09-28 00:52:42	2018-09-28 00:56:32
R2-1815136	Stage2 Corrections on UE capability	Huawei, HiSilicon, Rapporteur	agreed	2018-09-28 00:53:10	2018-09-28 04:15:55
R2-1815137	Introdcution of including EUTRA UE capability for MRDC usage	Huawei, HiSilicon	revised	2018-09-28 00:53:11	2018-09-28 04:15:55

R2-1815138	Signalling introduction of SRS switching	Huawei, HiSilicon	not treated	2018-09-28 00:53:12	2018-09-28 04:15:55
R2-1815139	Introduction of SRS switching capability	Huawei, HiSilicon	not treated	2018-09-28 00:53:13	2018-09-28 04:15:55
R2-1815140	Avoiding duplication BCs report in NR SA	Huawei, HiSilicon	noted	2018-09-28 00:53:14	2018-09-28 04:15:55
R2-1815141	Avoiding duplication BCs report in LTE SA capability and MR-DC	Huawei, HiSilicon	not treated	2018-09-28 00:53:14	2018-09-28 04:15:55
R2-1815142	UE overheating support in NR SA scenario	Huawei, HiSilicon	not treated	2018-09-28 00:53:15	2018-09-28 04:15:55
R2-1815143	CR on signalling introduction of UE overheating support in NR SA scenario	Huawei, HiSilicon	not treated	2018-09-28 00:53:15	2018-09-28 04:15:55
R2-1815144	CR on introduction of UE overheating support in NR SA scenario	Huawei, HiSilicon	not treated	2018-09-28 00:53:16	2018-09-28 04:15:55
R2-1815145	Discussion on EN-DC contiguous and non-contiguous signalling	Huawei, HiSilicon	noted	2018-09-28 00:53:17	2018-09-28 04:15:55
R2-1815146	Clarification on physical layer parameters	Huawei, HiSilicon	agreed	2018-09-28 00:53:17	2018-09-28 04:15:55
R2-1815147	Considerations on Beam Failure Detection	LG Electronics	not treated	2018-09-28 00:53:23	2018-09-28 02:01:44
R2-1815148	Wake-up signal UE grouping	Ericsson	not treated	2018-09-28 00:53:50	2018-09-28 00:59:16
R2-1815149	Sidelink Scenarios for NR V2X	Samsung Electronics GmbH	not treated	2018-09-28 00:54:47	2018-09-28 05:54:19
R2-1815150	Considerations on BWP operation for NR-	LG Electronics	not treated	2018-09-28 00:55:48	2018-09-28 02:01:44
R2-1815151	sidelink SPS for NR V2X	Samsung Electronics GmbH	not treated	2018-09-28 00:56:04	2018-09-28 05:54:19
R2-1815152	sidelink unicast and groupcast for NR V2X	Samsung Electronics GmbH	not treated	2018-09-28 00:56:54	2018-09-28 05:54:19
R2-1815153	Enhanced RACH proceudre for NR-U	LG Electronics	not treated	2018-09-28 00:57:28	2018-09-28 02:01:44
R2-1815154	Uu enhancements for NR V2X	Samsung Electronics GmbH	not treated	2018-09-28 00:57:37	2018-09-28 05:54:19
R2-1815155	RAT selection for NR V2X sidelink	Samsung Electronics GmbH	not treated	2018-09-28 00:58:20	2018-09-28 05:54:19
R2-1815156	CR on supporting of the ROHC for PDCP	LG Electronics	agreed	2018-09-28 00:58:35	2018-09-28 04:25:20
R2-1815157	2-Step CBRA procedure for NR-U	LG Electronics	not treated	2018-09-28 00:59:05	2018-09-28 02:01:44
R2-1815158	QoS management for NR V2X	Samsung Electronics GmbH	not treated	2018-09-28 00:59:07	2018-09-28 05:54:19
R2-1815159	CR on introduction of load redistribution in RRC_IDLE and RRC_INACTIVE in	China Telecom, ZTE corporation,	not treated	2018-09-28 01:00:22	2018-09-28 01:18:00
R2-1815160	Clarification for contention-free RA	LG Electronics	not treated	2018-09-28 01:01:27	2018-09-28 02:01:44
R2-1815161	Handling of the RLF on wireless backhaul	LG Electronics	withdrawn	2018-09-28 01:01:40	
R2-1815162	Monitoring of SSB associated with the initial DL BWP when the initial DL BWP is active	Samsung	noted	2018-09-28 01:01:49	2018-09-28 03:33:40
R2-1815163	Draft LS to RAN1 on BM and BFD when the initial DL BWP is active	Samsung	not treated	2018-09-28 01:01:49	2018-09-28 03:33:40
R2-1815164	Discussion on allowing CSI-RS configuration over more than one BWPs	Samsung	not treated	2018-09-28 01:01:49	2018-09-28 03:33:40
R2-1815165	Connected mode RRM measurement	Samsung	not treated	2018-09-28 01:01:49	2018-09-28 03:33:40
R2-1815166	Discussion on IDC indication in NR-U	Samsung	not treated	2018-09-28 01:01:49	2018-09-28 03:33:40
R2-1815167	Issues on Synchronization Signal Tx and	Samsung	not treated	2018-09-28 01:01:49	2018-09-28 03:33:40
R2-1815168	Wideband operations for NR-U	Samsung	not treated	2018-09-28 01:01:49	2018-09-28 03:33:40
R2-1815169	Handling of the Msg3 buffer for RA	LG Electronics	not treated	2018-09-28 01:03:22	2018-09-28 04:25:20
R2-1815170	Clarification on LCH-to-cell restriction for	LG Electronics	not treated	2018-09-28 01:03:33	2018-09-28 04:19:10
R2-1815171	38.321 CR on Clarification on LCH-to-cell restriction for DC duplication	LG Electronics Inc.	not treated	2018-09-28 01:03:33	2018-09-28 04:19:10
R2-1815172	Further consideration on uplink data	LG Electronics	not treated	2018-09-28 01:03:34	2018-09-28 04:19:10
R2-1815173	Further consideration on downlink data	LG Electronics	not treated	2018-09-28 01:03:34	2018-09-28 04:19:10
R2-1815174	Consideration on disorder of data arriving at the PDCP layer in IAB	LG Electronics Inc.	not treated	2018-09-28 01:03:34	2018-09-28 04:19:10
R2-1815175	Further consideration on handling of DRB integrity verification failure	LG Electronics Inc.	not treated	2018-09-28 01:03:34	2018-09-28 04:19:10
R2-1815176	Consideration on SN length for multi-hop	LG Electronics	not treated	2018-09-28 01:03:34	2018-09-28 04:19:10
R2-1815177	CR on contention-free RA resources in	LG Electronics	not treated	2018-09-28 01:05:21	2018-09-28 02:01:44
R2-1815178	CR on handling of the Msg3 buffer for RA	LG Electronics	withdrawn	2018-09-28 01:05:23	2018-09-28 04:25:20
R2-1815179	CR on introduction of load redistribution in RRC_IDLE and RRC_INACTIVE in	China Telecom, ZTE Corporation,	not pursued	2018-09-28 01:06:01	2018-09-28 01:19:18
R2-1815180	BSR operation with CA packet duplication	Sequans Communications	not treated	2018-09-28 01:08:06	2018-09-28 01:10:15
R2-1815181	CR on handling of the Msg3 buffer for RA	LG Electronics	withdrawn	2018-09-28 01:08:35	
R2-1815182	CR on BFR timer operation in 38.321	LG Electronics	not treated	2018-09-28 01:08:57	2018-09-28 02:01:44

R2-1815183	Flow control for PDCP operation	Sequans Communications	withdrawn	2018-09-28 01:13:47	
R2-1815184	Handling of the RLF on wireless backhaul	LG Electronics	not treated	2018-09-28 01:17:29	2018-09-28 04:25:20
R2-1815185	Busy UE with Long DRX cycle	LG Electronics	noted	2018-09-28 01:24:06	2018-09-28 04:13:59
R2-1815186	CR to 38.321 on Busy UE with long DRX	LG Electronics	noted	2018-09-28 01:24:06	2018-09-28 04:13:59
R2-1815187	CR to 38.321 on dataInactivityTimer in NR	LG Electronics	not treated	2018-09-28 01:24:07	2018-09-28 04:13:59
R2-1815188	DataInactivityTImer in NR	LG Electronics Inc.	not treated	2018-09-28 01:24:08	2018-09-28 04:13:59
R2-1815189	DRX for unlicensed operation	LG Electronics	not treated	2018-09-28 01:24:08	2018-09-28 04:13:59
R2-1815190	Fast preamble transmission in NR-U	LG Electronics	not treated	2018-09-28 01:24:08	2018-09-28 04:13:59
R2-1815191	Multi-path packet duplication for NR-U	LG Electronics	not treated	2018-09-28 01:24:08	2018-09-28 04:13:59
R2-1815192	Scheduling enhancement in IAB	LG Electronics	noted	2018-09-28 01:24:08	2018-09-28 04:13:59
R2-1815193	Condition for successful BFR termination	LG Electronics	not treated	2018-09-28 01:24:08	2018-09-28 04:13:59
R2-1815194	Transmission counting in MAC with LBT	LG Electronics	not treated	2018-09-28 01:25:44	2018-09-28 02:33:37
R2-1815195	Discussion on the reply LS from SA3 on BT and WLAN measurement collection in	Huawei, HiSilicon	not treated	2018-09-28 01:27:20	2018-09-28 04:06:53
R2-1815196	Correction on Bluetooth and WLAN measurement collection in MDT	Huawei, HiSilicon, Intel Corporation	revised	2018-09-28 01:27:20	2018-09-28 04:06:53
R2-1815197	Correction on SRB4 for QoE meamsurement collection	Huawei, HiSilicon, Intel Corporation	agreed	2018-09-28 01:27:21	2018-09-28 04:06:53
R2-1815198	NR SL Protocol stack overview	Huawei, HiSilicon	not treated	2018-09-28 01:27:22	2018-09-28 04:06:53
R2-1815199	Study sidelink resource allocation	Huawei, HiSilicon	not treated	2018-09-28 01:27:22	2018-09-28 04:06:53
R2-1815200	The enhancement of Uu to control inter	Huawei, HiSilicon	not treated	2018-09-28 01:27:22	2018-09-28 04:06:53
R2-1815201	CR on handling of the Msg3 buffer for RA	LG Electronics	withdrawn	2018-09-28 01:33:25	2018-09-28 04:25:20
R2-1815202	Skipping CG in RA procedure	LG Electronics	not treated	2018-09-28 01:33:27	2018-09-28 02:33:37
R2-1815203	CR on searchSpaceZero in PDCCH-ConfigCommon	vivo	merged	2018-09-28 01:34:28	2018-09-28 06:38:37
R2-1815204	Handling of Lower Layer SCG Configuration in RRC_INACTIVE	III	not treated	2018-09-28 01:35:06	2018-09-28 05:28:19
R2-1815205	CR to 38.331 on the ambiguity of targetCellIdentity in Resume Short MAC-I	ZTE Corporation, Sanechips	revised	2018-09-28 01:35:52	2018-09-28 05:22:56
R2-1815206	Triggering condition of logicalChannelSR-	Huawei, HiSilicon	noted	2018-09-28 01:36:03	2018-09-28 03:53:41
R2-1815207	CR on the triggering condition of logicalChannelSR-DelayTimer	Huawei, HiSilicon	not treated	2018-09-28 01:36:03	2018-09-28 03:53:41
R2-1815208	CR on configuration of BSR parameters	Huawei, HiSilicon	not treated	2018-09-28 01:36:04	2018-09-28 03:53:41
R2-1815209	CR to 38.321 on skipping CG in RA	LG Electronics	not treated	2018-09-28 01:36:34	2018-09-28 02:33:37
R2-1815210	Corrections to TS 36.304 for E-UTRA connected to 5GC	Huawei, HiSilicon	revised	2018-09-28 01:39:59	2018-09-28 03:58:55
R2-1815211	Discussion on RRC_Inactive state for E-UTRA connected to 5GC	Huawei, HiSilicon	noted	2018-09-28 01:40:00	2018-09-28 03:58:55
R2-1815212	Discussion on UAC for E-UTRA connected to 5GC	Huawei, HiSilicon	noted	2018-09-28 01:40:00	2018-09-28 03:58:55
R2-1815213	Corrections for E-UTRA connected to 5GC	Huawei, HiSilicon	revised	2018-09-28 01:40:00	2018-09-28 03:58:55
R2-1815214	Discussion on UE capabilities of E-UTRA connected to 5GC	Huawei, HiSilicon	not treated	2018-09-28 01:40:01	2018-09-28 03:58:55
R2-1815215	Corrections on handover for E-UTRA connected to 5GC	Huawei, HiSilicon	revised	2018-09-28 01:40:01	2018-09-28 03:58:55
R2-1815216	Corrections on time reference information	Huawei, HiSilicon	revised	2018-09-28 01:40:02	2018-09-28 03:58:27
R2-1815217	Discussion on UE behaivour about	Huawei, HiSilicon	noted	2018-09-28 01:40:03	2018-09-28 03:58:27
R2-1815218	Correction on UE behaviour about	Huawei, HiSilicon	revised	2018-09-28 01:40:03	2018-09-28 03:58:27
R2-1815219	Use cases for efMob	Huawei, HiSilicon	not treated	2018-09-28 01:40:04	2018-09-28 03:58:27
R2-1815220	Existing means related to efMob	Huawei, HiSilicon	not treated	2018-09-28 01:40:04	2018-09-28 03:58:27
R2-1815221	Initial considerations of potential solutions	Huawei, HiSilicon	not treated	2018-09-28 01:40:04	2018-09-28 03:58:27
R2-1815222	Initial considerations of UE impacts	Huawei, HiSilicon	not treated	2018-09-28 01:40:04	2018-09-28 03:58:15
R2-1815223	Draft LS on UE impacts for efMob	Huawei, HiSilicon	not treated	2018-09-28 01:40:04	2018-09-28 03:58:16
R2-1815224	PDCP duplication for improving	Huawei, HiSilicon	not treated	2018-09-28 01:40:05	2018-09-28 03:58:16
R2-1815225	Discussion on value range for timers and counters related to radio link failure	Huawei, HiSilicon	noted	2018-09-28 01:40:05	2018-09-28 03:58:16
R2-1815226	Extension of value range for timers and counters related to radio link failure	Huawei, HiSilicon, Ericsson	not treated	2018-09-28 01:40:05	2018-09-28 03:58:16

R2-1815227	Extension of value range for timers and counters related to radio link failure	Huawei, HiSilicon, Ericsson	not treated	2018-09-28 01:40:06	2018-09-28 03:58:16
R2-1815228	Discussion on IDC problems in NR-U	ASUSTeK	not treated	2018-09-28 01:42:41	2018-09-28 02:02:04
R2-1815229	Msg3 generation for switching between CFRA and CBRA in NR	ASUSTeK	not treated	2018-09-28 01:42:41	2018-09-28 02:02:04
R2-1815230	Prioritization for IAB-node in random	ASUSTeK	not treated	2018-09-28 01:42:41	2018-09-28 02:02:04
R2-1815231	Connection procedure failure caused by On-demand SI procedure	ASUSTeK	not treated	2018-09-28 01:42:41	2018-09-28 02:02:04
R2-1815232	Issue on delivery order when sidelink duplication reception is disabled	ASUSTeK	not treated	2018-09-28 01:42:41	2018-09-28 02:02:04
R2-1815233	Correction on Reordering_Window for SLRB with PDCP duplication reception	ASUSTeK	merged	2018-09-28 01:42:41	2018-09-28 02:02:04
R2-1815234	Resource configuration and allocation for	ASUSTeK	not treated	2018-09-28 01:42:42	2018-09-28 02:02:04
R2-1815235	Consideration on routing table update in	ASUSTeK	not treated	2018-09-28 01:42:42	2018-09-28 02:02:04
R2-1815236	Issue of monitoring INT-RNTI	ASUSTeK	noted	2018-09-28 01:42:42	2018-09-28 02:02:04
R2-1815237	Correction to issue of monitoring INT-	ASUSTeK	not treated	2018-09-28 01:42:42	2018-09-28 02:02:04
R2-1815238	BFR procedure during DRX mode	ASUSTeK	not treated	2018-09-28 01:42:43	2018-09-28 02:02:04
R2-1815239	Correction to BFR procedure during DRX	ASUSTeK	not treated	2018-09-28 01:42:43	2018-09-28 02:02:04
R2-1815240	Avoiding unnecessary derivation of user	Huawei, HiSilicon	not pursued	2018-09-28 01:43:20	2018-09-28 01:52:40
R2-1815241	Correction in 38331 for CSI-RS mobility	Huawei, HiSilicon	not treated	2018-09-28 01:43:21	2018-09-28 01:54:19
R2-1815242	Considerations on Simultaneous Connectivity with Both Source and Target	ETRI	not treated	2018-09-28 01:48:23	2018-09-28 06:47:48
R2-1815243	Conditional Make-Before-Break Handover	ETRI	not treated	2018-09-28 01:48:23	2018-09-28 06:47:48
R2-1815244	Considerations on Conditional Handover	ETRI	not treated	2018-09-28 01:48:23	2018-09-28 06:47:48
R2-1815245	Simulation Results on Conditional	ETRI	not treated	2018-09-28 01:48:23	2018-09-28 06:47:48
R2-1815246	TTT in Conditional Handover	ETRI	not treated	2018-09-28 01:48:23	2018-09-28 06:47:48
R2-1815247	Discussion on paging on NR-U	CMCC	not treated	2018-09-28 01:49:53	2018-09-28 03:10:07
R2-1815248	Mobility-state-based cell reselection in NR	CMCC	not treated	2018-09-28 01:49:53	2018-09-28 05:46:28
R2-1815249	38331 CR to introduce mobility-state-based cell reselection for NR HSDN	CMCC	not treated	2018-09-28 01:49:53	2018-09-28 05:46:28
R2-1815250	38304 CR to introduce mobility-state-based cell reselection for NR HSDN	CMCC	not treated	2018-09-28 01:49:54	2018-09-28 05:46:28
R2-1815251	Considerations on BWP switching and multi-activation for NR-U	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 05:46:28
R2-1815252	NR-U impacts on DRB mapping	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 05:46:28
R2-1815253	In-device coexistence for NR-U	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 05:46:28
R2-1815254	Impact of NTN cell movement	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 05:46:28
R2-1815255	Issues of UE mobility state estimation in	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 05:46:28
R2-1815256	Utilization of beam footprint information	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 05:46:28
R2-1815257	Consideration of RACH procedure in NR-	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 03:26:05
R2-1815258	Uu enhancements of NR V2X	CMCC	not treated	2018-09-28 01:49:55	2018-09-28 05:59:32
R2-1815259	Corrections on P-Max description	CMCC	agreed	2018-09-28 01:49:55	2018-09-28 05:46:28
R2-1815260	Add p-Max for SUL in SIB2 and SIB4	CMCC	not pursued	2018-09-28 01:49:56	2018-09-28 05:46:28
R2-1815261	Correction on definition of PEMAX1,	CMCC	revised	2018-09-28 01:49:58	2018-09-28 05:46:28
R2-1815262	On UE capability of supportedgappattern	CMCC	not treated	2018-09-28 01:49:59	2018-09-28 05:46:28
R2-1815263	Correction on definition of supportedGapPattern	CMCC	merged	2018-09-28 01:49:59	2018-09-28 05:46:28
R2-1815264	Reply LS on measurement gap	CMCC	not treated	2018-09-28 01:50:01	2018-09-28 05:46:28
R2-1815265	Discussion on LS from SA3 on Bluetooth/WLAN measurement collection	CMCC	noted	2018-09-28 01:50:01	2018-09-28 03:10:07
R2-1815266	NB-IoT packet disorder problem for CP RRC re-establishment	CMCC	noted	2018-09-28 01:50:01	2018-09-28 03:10:07
R2-1815267	CR to TS 38.331 for supporting maximum 8 SS/PBCH blocks for unpaired spectrum	CMCC	not treated	2018-09-28 01:50:01	2018-09-28 03:10:07
R2-1815268	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	revised	2018-09-28 01:50:02	2018-09-28 03:10:07
R2-1815269	PDCP status report enhancement in IIoT	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 03:10:07
R2-1815270	Enhancement for Time-Sensitive	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 03:10:07
R2-1815271	Performance evaluation of TSN	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 03:10:07
R2-1815272	Draft Relay LS on performance evalution	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 03:10:07
R2-1815273	UL Scheduling with Multiple TTIs for	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 03:10:07
R2-1815274	DRX process in unlicensed spectrum	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 03:10:07
R2-1815275	Discussion on L2 functions reuse in IIoT	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 03:10:07
R2-1815276	Measurement Gap Configuration for NE-DC and NR-DC	CMCC	not treated	2018-09-28 01:50:03	2018-09-28 05:46:28

R2-1815277	RRC State Mismatch Problem with	Samsung	not treated	2018-09-28 02:00:31	2018-09-28 05:17:02
R2-1815278	Data transmission using SPS in	LG Electronics UK	not treated	2018-09-28 02:01:01	2018-09-28 04:54:59
R2-1815279	Support for common SPS resource	LG Electronics UK	not treated	2018-09-28 02:01:01	2018-09-28 04:54:59
R2-1815280	Considerations on MT EDT	LG Electronics UK	not treated	2018-09-28 02:01:01	2018-09-28 04:54:59
R2-1815281	Remaining issue with power ramping	LG Electronics	not treated	2018-09-28 02:02:13	2018-09-28 02:33:37
R2-1815282	Clarification on Configuration of multiplePHR for EN-DC and NR-CA	Samsung Electronics	revised	2018-09-28 02:05:52	2018-09-28 04:26:04
R2-1815283	Introducing issues for NR-U Idle mode	Samsung	not treated	2018-09-28 02:06:27	2018-09-28 05:17:22
R2-1815284	Autonomous uplink transmission for NR-U	LG Electronics	not treated	2018-09-28 02:07:18	2018-09-28 02:33:37
R2-1815285	Correction on PDCP duplication option 1	Huawei, HiSilicon	revised	2018-09-28 02:07:46	2018-09-28 04:10:54
R2-1815286	Correction on PDCP duplication option 2	Huawei, HiSilicon	not pursued	2018-09-28 02:07:47	2018-09-28 04:10:54
R2-1815287	Correction on flight path information	Huawei, HiSilicon	agreed	2018-09-28 02:07:48	2018-09-28 04:10:54
R2-1815288	Correction on measurement triggering based on number of cells	Huawei, HiSilicon	agreed	2018-09-28 02:07:49	2018-09-28 04:10:54
R2-1815289	correction on triggering idle mode	Huawei, HiSilicon	not treated	2018-09-28 02:07:50	2018-09-28 04:10:54
R2-1815290	Correction on triggering idle mode	Huawei, HiSilicon	revised	2018-09-28 02:07:50	2018-09-28 04:10:54
R2-1815291	Miscellaneous correction on idle mode	Huawei, HiSilicon	not treated	2018-09-28 02:07:52	2018-09-28 04:10:54
R2-1815292	SPS for TDD sTTI	Huawei, HiSilicon	not pursued	2018-09-28 02:07:54	2018-09-28 04:10:54
R2-1815293	SPS for TDD sTTI	Huawei, HiSilicon	revised	2018-09-28 02:07:55	2018-09-28 04:10:54
R2-1815294	skipUplinkTxSPS for short TTI option 1	Huawei, HiSilicon	revised	2018-09-28 02:07:57	2018-09-28 04:10:54
R2-1815295	skipUplinkTxSPS for short TTI option 2	Huawei, HiSilicon	not pursued	2018-09-28 02:07:59	2018-09-28 04:10:54
R2-1815296	correction on power control	Huawei, HiSilicon	revised	2018-09-28 02:08:01	2018-09-28 04:10:54
R2-1815297	discussion on skipUplinkTxSPS for short TTI	Huawei, HiSilicon	not treated	2018-09-28 02:08:02	2018-09-28 04:10:54
R2-1815298	discussion on SPS for TDD sTTI	Huawei, HiSilicon	not treated	2018-09-28 02:08:02	2018-09-28 04:10:54
R2-1815299	RA triggers	Huawei, HiSilicon, Rapporteur (Nokia), Qualcomm	revised	2018-09-28 02:08:03	2018-09-28 04:02:31
R2-1815300	Further discussion on configured grant	Huawei, HiSilicon	not treated	2018-09-28 02:08:04	2018-09-28 04:02:31
R2-1815301	Handling of overlapped configured grant and UL grant received in RAR	Huawei, HiSilicon	not treated	2018-09-28 02:08:04	2018-09-28 04:02:31
R2-1815302	Leftover of HARQ operation for bundling	Huawei, HiSilicon	noted	2018-09-28 02:08:05	2018-09-28 04:02:31
R2-1815303	Clarification on bundling operation for	Huawei, HiSilicon,	not treated	2018-09-28 02:08:05	2018-09-28 04:02:31
R2-1815304	LS on HARQ operation for bundling	Huawei, HiSilicon	not treated	2018-09-28 02:08:06	2018-09-28 04:02:31
R2-1815305	Power saving for pending SR of delay-	Huawei, HiSilicon	noted	2018-09-28 02:08:06	2018-09-28 04:02:31
R2-1815306	Correction to 38.321 on the power saving for pending SR of delay-tolerate service	Huawei, HiSilicon	not treated	2018-09-28 02:08:06	2018-09-28 04:02:31
R2-1815307	Remaining issues of power management	Huawei, HiSilicon	noted	2018-09-28 02:08:08	2018-09-28 04:02:31
R2-1815308	Correction to 38.321 on power	Huawei, HiSilicon	not treated	2018-09-28 02:08:08	2018-09-28 04:02:31
R2-1815309	BWP selection based on HARQ process	LG Electronics	not treated	2018-09-28 02:09:34	2018-09-28 02:33:37
R2-1815310	Clarification on the Description for resourceType in CSI-ResourceConfig	Samsung Electronics	not treated	2018-09-28 02:09:41	2018-09-28 04:26:04
R2-1815311	On indicating LBT failure for NR-U	Samsung	not treated	2018-09-28 02:11:17	2018-09-28 05:18:08
R2-1815312	Management of SN-terminated DRBs	Samsung Electronics GmbH	not treated	2018-09-28 02:12:29	2018-09-28 04:29:18
R2-1815313	LTE RRC message transmission in NE-DC	Samsung Electronics GmbH	not treated	2018-09-28 02:14:15	2018-09-28 04:29:18
R2-1815314	Discussion on measurement priority	Huawei, Hisilicon	not treated	2018-09-28 02:14:29	2018-09-28 03:39:00
R2-1815315	Discussion on location information supported in measurement report	Huawei, Hisilicon	not treated	2018-09-28 02:14:29	2018-09-28 03:39:00
R2-1815316	Timer based RRC state transition from	Huawei, Hisilicon	not treated	2018-09-28 02:14:29	2018-09-28 03:26:07
R2-1815317	Discussion on timer based state transition from CONNECTED to inactive	Huawei, Hisilicon	not treated	2018-09-28 02:14:29	2018-09-28 03:39:00
R2-1815318	Discussion on RNA configuration	Huawei, Hisilicon	not treated	2018-09-28 02:14:29	2018-09-28 03:26:07
R2-1815319	QoS flow handling in NR-DC	Samsung Electronics GmbH	not treated	2018-09-28 02:15:44	2018-09-28 04:29:18

R2-1815320	RRC processing delay requirement for NR	Samsung Electronics GmbH	not treated	2018-09-28 02:17:45	2018-09-28 04:29:18
R2-1815321	Correction on MCS selection	OPPO, Qualcomm	merged	2018-09-28 02:20:09	2018-09-29 00:48:30
R2-1815322	CR on RRC processing delay requirement	Samsung Electronics GmbH	not treated	2018-09-28 02:20:49	2018-09-28 04:29:18
R2-1815323	Correction on FeLAA in TS 36.321	Huawei, HiSilicon	agreed	2018-09-28 02:21:37	2018-09-28 03:24:45
R2-1815324	Correction on FeLAA in TS 36.331	Huawei, HiSilicon	agreed	2018-09-28 02:21:38	2018-09-28 03:24:45
R2-1815325	Issues on coexistence between AUL and SUL	Huawei, HiSilicon	not treated	2018-09-28 02:21:39	2018-09-28 03:24:45
R2-1815326	Remaining issues with Timer X	Huawei, HiSilicon	noted	2018-09-28 02:21:39	2018-09-28 03:24:45
R2-1815327	Correction on aul-RetransmissionTimer	Huawei, HiSilicon	not pursued	2018-09-28 02:21:39	2018-09-28 03:24:45
R2-1815328	Clarification for SLSS_TxDisabled	LG Electronics	not treated	2018-09-28 02:21:41	2018-09-28 06:54:47
R2-1815329	Draft LS to SA2 on unicast, groupcast and broadcast designs in NR sidelink	Huawei	not treated	2018-09-28 02:25:14	2018-09-28 04:06:54
R2-1815330	Discussion on paging for NR-U	Huawei, HiSilicon	noted	2018-09-28 02:25:20	2018-09-28 03:55:16
R2-1815331	Discussion on SI for NR-U	Huawei, HiSilicon	noted	2018-09-28 02:25:20	2018-09-28 03:56:44
R2-1815332	UL split SRB and SCG failure	Samsung Electronics GmbH	not treated	2018-09-28 02:26:09	2018-09-28 04:29:18
R2-1815333	CR on UL split SRB and DRB	Samsung Electronics GmbH	not treated	2018-09-28 02:28:37	2018-09-28 04:29:18
R2-1815334	CR on scgFailureInfo	Samsung Electronics GmbH	not treated	2018-09-28 02:34:44	2018-09-28 04:29:18
R2-1815335	CR on 36331 Correction for sTTI	LG Electronics Mobile Research	revised	2018-09-28 02:37:43	2018-09-28 04:09:39
R2-1815336	Discussion on the Issue for paging in NTN	LG Electronics	not treated	2018-09-28 02:38:17	2018-09-28 04:52:36
R2-1815337	Remaining issues for PO	LG Electronics	not treated	2018-09-28 02:41:14	2018-09-28 04:40:03
R2-1815338	Discussion on SRS switching capability	Huawei, HiSilicon	noted	2018-09-28 02:44:34	2018-09-28 04:15:55
R2-1815339	Paging enhancements in NR Unlicensed	LG Electronics	not treated	2018-09-28 02:45:18	2018-09-28 06:14:47
R2-1815340	Handling of URLLC data in UL during	Huawei, HiSilicon	not treated	2018-09-28 02:50:10	2018-09-28 06:56:10
R2-1815341	CR for TS38.331 on DelayBudgetReport	Huawei, HiSilicon	not treated	2018-09-28 02:50:10	2018-09-28 06:56:10
R2-1815342	Draft LS on intra-UE	Huawei, HiSilicon	not treated	2018-09-28 02:50:12	2018-09-28 06:56:10
R2-1815343	Fulfillment of TSN requirements	Intel Corporation	not treated	2018-09-28 02:52:29	2018-09-28 06:25:31
R2-1815344	TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corporation	revised	2018-09-28 02:52:29	2018-09-28 06:09:12
R2-1815345	Considerations on remaining “FFS” in the	KDDI Corporation	not treated	2018-09-28 02:56:24	2018-09-28 03:05:21
R2-1815346	Capture use of motion information from motion sensors	Nokia, Nokia Shanghai Bell	revised	2018-09-28 03:02:39	2018-09-28 03:09:13
R2-1815347	PWS warning notification change indication	Nokia, Nokia Shanghai Bell	not treated	2018-09-28 03:04:49	2018-09-28 03:09:24
R2-1815348	Discussion for routing operation of IAB	LG Electronics	not treated	2018-09-28 03:06:20	2018-09-28 03:56:31
R2-1815349	Summary of [103#53][IAB] E2E reliability in hop-by-hop RLC ARQ	LG Electronics	agreed	2018-09-28 03:08:29	2018-09-28 03:56:31
R2-1815350	Emergency Call for RRC Inactive UE	MediaTek Inc.	not treated	2018-09-28 03:15:15	2018-09-28 04:56:49
R2-1815351	Impact on RACH related counters and	Huawei, HiSilicon	withdrawn	2018-09-28 03:16:56	
R2-1815352	Applicability of s-measure in NR	Huawei, HiSilicon	not treated	2018-09-28 03:16:56	2018-09-28 06:38:56
R2-1815353	CR to 38331 for applicability of s-Measure	Huawei, HiSilicon	not treated	2018-09-28 03:16:56	2018-09-28 06:38:56
R2-1815354	Applicability of s-measure in LTE	Huawei, HiSilicon	not treated	2018-09-28 03:16:57	2018-09-28 06:38:56
R2-1815355	CR to 38331 for applicability of s-Measure	Huawei, HiSilicon	not treated	2018-09-28 03:16:57	2018-09-28 06:38:56
R2-1815356	Conditional Handover making up for LTE	Samsung	not treated	2018-09-28 03:18:31	2018-09-28 05:27:51
R2-1815357	Discussion on default value of T311	Samsung	noted	2018-09-28 03:18:31	2018-09-28 05:27:51
R2-1815358	Correction for the default value of T311	Samsung	not pursued	2018-09-28 03:18:31	2018-09-28 05:27:51
R2-1815359	The Necessity of T312 in NR	Samsung	not treated	2018-09-28 03:18:32	2018-09-28 05:27:51
R2-1815360	Correction on conditional presence of	Samsung	revised	2018-09-28 03:18:32	2018-09-28 05:27:51
R2-1815361	Conditional presence correction for tdd-UL-DL-ConfigCommon in	Samsung Electronics	not pursued	2018-09-28 03:18:41	2018-09-28 05:27:51
R2-1815362	Correction on the conditional presence of CellSelectionInfo in SIB1	Samsung Electronics	not treated	2018-09-28 03:18:42	2018-09-28 05:27:51
R2-1815363	Correction on Qoffset_temp condition	Samsung	not pursued	2018-09-28 03:18:43	2018-09-28 05:27:51
R2-1815364	Correction on connection establishment failure counting for Qoffset_temp	Samsung Electronics	not treated	2018-09-28 03:18:51	2018-09-28 05:27:51

R2-1815365	Impact on RACH related counters and	Huawei, HiSilicon	not treated	2018-09-28 03:21:00	2018-09-28 03:47:23
R2-1815366	Consideration on backhaul link	LG Electronics	not treated	2018-09-28 03:32:29	2018-09-28 05:07:47
R2-1815367	PHR reporting at coverage edge	Qualcomm Inc	noted	2018-09-28 03:40:36	2018-09-28 03:52:42
R2-1815368	Further discussion on BFD procedure in	Qualcomm Inc	noted	2018-09-28 03:40:36	2018-09-28 03:52:42
R2-1815369	Correction to PHR MAC CE with multiple path-loss reference signals	Qualcomm Inc	not treated	2018-09-28 03:40:36	2018-09-28 03:52:42
R2-1815370	Discussion on PHR with mutiple path-loss	Qualcomm Inc	noted	2018-09-28 03:40:38	2018-09-28 03:52:42
R2-1815371	On the scope of intra-UE DL/UL	Qualcomm Inc	revised	2018-09-28 03:40:38	2018-09-28 03:52:42
R2-1815372	Mobile-terminated Early Data Transmission	MediaTek Inc.	not treated	2018-09-28 03:47:28	2018-09-28 06:41:01
R2-1815373	Introduction of power boosting indicator for pi2BPSK waveform	IITH, IITM, CeWIT	revised	2018-09-28 04:05:31	2018-09-28 04:12:40
R2-1815374	Discussion on security support for NE-DC and NGEN-DC	Huawei, Hisilicon	not treated	2018-09-28 04:06:16	2018-09-28 04:39:16
R2-1815375	control plane architecture for NE-DC	Huawei, Hisilicon	not treated	2018-09-28 04:06:16	2018-09-28 04:39:16
R2-1815376	inter-node message for NE-DC	Huawei, Hisilicon	reserved	2018-09-28 04:06:16	
R2-1815377	clarificaiton on using different counter value	Huawei, Hisilicon	not treated	2018-09-28 04:06:16	2018-09-28 04:59:24
R2-1815378	correction on the allowedBC-ListMRDC	Huawei, Hisilicon	agreed	2018-09-28 04:06:16	2018-09-28 04:39:16
R2-1815379	SCG failure in NE-DC	Huawei, Hisilicon	not treated	2018-09-28 04:06:17	2018-09-28 05:24:40
R2-1815380	SCG failure in NE-DC	Huawei, Hisilicon	not treated	2018-09-28 04:06:17	2018-09-28 05:24:40
R2-1815381	Removal of restriction on RB removal and addition	NTT DOCOMO INC., Sharp	revised	2018-09-28 04:14:39	2018-09-28 06:54:37
R2-1815382	Introduction of UE capability for pi/2 BPSK modulation with power boosting capability	Indian Institute of Tech (M), Indian Institute of Tech	not treated	2018-09-28 04:15:20	2018-09-28 04:19:50
R2-1815383	Inter-node messages for NGEN-DC, NE-DC and NR-NR DC	Google Inc.	not treated	2018-09-28 04:15:24	2018-09-28 06:30:42
R2-1815384	Reflective mapping in case AS reflective	SHARP	not pursued	2018-09-28 04:16:33	2018-09-28 05:59:02
R2-1815385	Issue on missing indication to stop the NAS timer T3540 ([J020])	SHARP Corporation	not treated	2018-09-28 04:16:34	2018-09-28 05:59:02
R2-1815386	CR on missing indication to stop the NAS	SHARP	not treated	2018-09-28 04:16:34	2018-09-28 05:59:02
R2-1815387	Considerations on RRC connection handling in NTN	LG Electronics Deutschland	not treated	2018-09-28 04:16:46	2018-09-28 06:11:33
R2-1815388	Discussion on NAS-AS misaligned issues	Huawei, Hisilicon	not treated	2018-09-28 04:19:55	2018-09-28 05:54:46
R2-1815389	NAS-AS misaligned issues in INACTIVE	Huawei, Hisilicon	not treated	2018-09-28 04:19:55	2018-09-28 05:54:46
R2-1815390	on security of RRC Release	Huawei, Hisilicon	not treated	2018-09-28 04:19:56	2018-09-28 05:54:46
R2-1815391	Draft LS for the security of RRC Release	Huawei, Hisilicon	not treated	2018-09-28 04:19:57	2018-09-28 05:54:46
R2-1815392	Clarification on guami-type	Huawei, Hisilicon	not treated	2018-09-28 04:19:57	2018-09-28 05:54:46
R2-1815393	clarification of mobility state detection	Huawei, Hisilicon	revised	2018-09-28 04:19:58	2018-09-28 06:13:18
R2-1815394	Summary of [103#53] E2E reliability in hop-	LG Electronics	reserved	2018-09-28 04:22:56	
R2-1815395	Clarification on SI monitoring after SI	LG Electronics	not treated	2018-09-28 04:27:07	2018-09-28 04:36:05
R2-1815396	Camping on non-best cell	LG Electronics	not treated	2018-09-28 04:27:07	2018-09-28 06:10:47
R2-1815397	Channel occupancy measurement	LG Electronics	not treated	2018-09-28 04:27:07	2018-09-28 04:36:05
R2-1815398	Consideration on cell quality derivation on unlicensed frequency	LG Electronics Inc.	not treated	2018-09-28 04:27:07	2018-09-28 04:36:05
R2-1815399	Impact of LBT failure on RLM	LG Electronics	not treated	2018-09-28 04:27:07	2018-09-28 04:36:05
R2-1815400	Corrections for intra E-UTRA/5GC	Huawei, HiSilicon	not treated	2018-09-28 04:29:58	2018-09-28 06:07:23
R2-1815401	Corrections for Inter-RAT handover from E-UTRA in TS36.331	Huawei, HiSilicon	revised	2018-09-28 04:29:58	2018-09-28 06:07:23
R2-1815402	CR on 37.340 for inter-system MR-DC HO	Huawei, HiSilicon	not treated	2018-09-28 04:29:58	2018-09-28 06:07:23
R2-1815403	CR on 37.340 for SCG failure handling in	Huawei, HiSilicon	not treated	2018-09-28 04:29:58	2018-09-28 06:07:23
R2-1815404	CR on 38.331 for measurement	Huawei, HiSilicon	not treated	2018-09-28 04:29:58	2018-09-28 06:19:30
R2-1815405	CR on 38.331 for inter-node message in	Huawei, HiSilicon	revised	2018-09-28 04:29:58	2018-09-28 06:19:30
R2-1815406	CR on 37.340 for RRC message handling	Huawei, HiSilicon	revised	2018-09-28 04:29:58	2018-09-28 06:19:30
R2-1815407	CR on 37.340 for UE capability	Huawei, HiSilicon	not treated	2018-09-28 04:29:58	2018-09-28 06:19:30

R2-1815408	CR on 38.331 to support UP IP check	Huawei, HiSilicon	not treated	2018-09-28 04:29:58	2018-09-28 06:19:30
R2-1815409	CR on 38.331for SCG failure in NR-DC	Huawei, HiSilicon	not treated	2018-09-28 04:29:58	2018-09-28 06:19:30
R2-1815410	Consideration on the RRC re-establishment across E-PLMN	ZTE Corporation, Sanechips	not treated	2018-09-28 04:34:40	2018-09-28 05:22:56
R2-1815411	CR to 38.331 on the RRC re-establishment across E-PLMN	ZTE Corporation, Sanechips	not treated	2018-09-28 04:36:35	2018-09-28 05:22:56
R2-1815412	Discussion on SR transmission for NR-U	Google Inc.	not treated	2018-09-28 04:39:01	2018-09-28 05:59:33
R2-1815413	Correction to full configuration	Google Inc.	revised	2018-09-28 04:41:17	2018-09-28 06:30:42
R2-1815414	On the TCI state configuration for CSS in “non-overlapping” BWP	vivo	noted	2018-09-28 04:41:30	2018-09-28 06:38:37
R2-1815415	Summary of [103#40][LTE/V2X] MAC CRs	LG Electronics	not treated	2018-09-28 04:42:46	2018-09-28 05:17:47
R2-1815416	eV2X clean-up except for UL and SL	LG Electronics	agreed	2018-09-28 04:42:46	2018-09-28 05:17:47
R2-1815417	UL and SL prioritization	LG Electronics	revised	2018-09-28 04:42:49	2018-09-28 05:17:47
R2-1815418	UL and SL prioritization in TS 36 321-alt1	LG Electronics	not treated	2018-09-28 04:42:49	2018-09-28 05:17:47
R2-1815419	UL and SL prioritization in TS 36.321- alt2	LG Electronics	revised	2018-09-28 04:42:50	2018-09-28 05:17:47
R2-1815420	Correction for SL duplication in TS 36.323	LG Electronics	merged	2018-09-28 04:42:51	2018-09-28 05:17:47
R2-1815421	Simultaneous uses of both of carriers provided by eNB and only allowed to use in	LG Electronics	noted	2018-09-28 04:42:52	2018-09-28 05:17:47
R2-1815422	Discussion on max time reduction between packet arrival and selected tx	LG Electronics	noted	2018-09-28 04:42:52	2018-09-28 05:17:47
R2-1815423	Supporting Prioritization of F1-AP	LG Electronics	not treated	2018-09-28 04:42:52	2018-09-28 05:17:47
R2-1815424	V2X sidelink discovery	LG Electronics	not treated	2018-09-28 04:42:52	2018-09-28 05:17:47
R2-1815425	V2X session establishment	LG Electronics	not treated	2018-09-28 04:42:52	2018-09-28 05:17:47
R2-1815426	PC5 RAT selection	LG Electronics	not treated	2018-09-28 04:42:52	2018-09-28 05:17:47
R2-1815427	RRM design consideration for NE-DC	Samsung Electronics GmbH	not treated	2018-09-28 04:46:30	2018-09-28 04:48:04
R2-1815428	Measurement gap coordination for NE-DC and NR-DC	NTT DOCOMO INC.	not treated	2018-09-28 04:48:48	2018-09-28 05:38:29
R2-1815429	Solution for UE capability signalling optimisation using UE Capability ID	NTT DOCOMO, INC.	not treated	2018-09-28 04:51:19	2018-09-28 05:10:25
R2-1815430	Direct and Indirect resource allocation	LG Electronics	not treated	2018-09-28 04:58:38	2018-09-28 06:54:47
R2-1815431	De-prioritization of duplicated transmission for V2X sidelink	LG Electronics Inc.	not treated	2018-09-28 05:00:35	2018-09-28 05:20:19
R2-1815432	De-prioritization of duplicated transmission for V2X sidelink	LG Electronics Inc.	noted	2018-09-28 05:00:35	2018-09-28 05:20:19
R2-1815433	Flushing HARQ buffer for carrier	LG Electronics	not treated	2018-09-28 05:00:36	2018-09-28 05:20:19
R2-1815434	Flushing HARQ buffer for carrier	LG Electronics	revised	2018-09-28 05:00:36	2018-09-28 05:20:19
R2-1815435	Concurrent triggers of SI Request and RRC Connection Establishment/Resume	LG Electronics Inc.	not treated	2018-09-28 05:00:37	2018-09-28 05:20:19
R2-1815436	RRC Re-establishment Enhancement in MR-DC	LG Electronics Inc.	not treated	2018-09-28 05:00:38	2018-09-28 05:20:19
R2-1815437	Access Control for IAB node	LG Electronics	not treated	2018-09-28 05:00:38	2018-09-28 05:20:19
R2-1815438	Cell Reselection in NR-U	LG Electronics	not treated	2018-09-28 05:00:38	2018-09-28 05:20:19
R2-1815439	NR V2X study plan	LG Electronics	noted	2018-09-28 05:00:38	2018-09-28 05:20:19
R2-1815440	Basic Scenarios and Overall Steps for NR	LG Electronics	not treated	2018-09-28 05:00:38	2018-09-28 05:20:19
R2-1815441	NR Sidelink design based on LTE Sidelink	LG Electronics	noted	2018-09-28 05:00:38	2018-09-28 05:20:19
R2-1815442	NR Uu enhancements for V2X	LG Electronics	not treated	2018-09-28 05:00:38	2018-09-28 05:20:19
R2-1815443	CR to power ramping (option1)	Fujitsu	revised	2018-09-28 05:03:05	2018-09-28 06:59:20
R2-1815444	CR to power ramping (option2)	Fujitsu	not treated	2018-09-28 05:03:05	2018-09-28 06:59:20
R2-1815445	CR to power ramping (option3)	Fujitsu	not treated	2018-09-28 05:03:06	2018-09-28 06:59:20
R2-1815446	CR to introduction of MICO mode	Fujitsu	revised	2018-09-28 05:03:07	2018-09-28 06:59:20
R2-1815447	On CFRA in NR-U	Fujitsu	not treated	2018-09-28 05:03:08	2018-09-28 06:59:20
R2-1815448	Issue in RA procedure due to LBT failure	Fujitsu	not treated	2018-09-28 05:03:08	2018-09-28 06:59:20
R2-1815449	Consideration on cell reselection of IAB	LG Electronics	not treated	2018-09-28 05:03:33	2018-09-28 06:54:47
R2-1815450	Discussion on intra-UE	Huawei, HiSilicon	not treated	2018-09-28 05:08:56	2018-09-28 06:56:10
R2-1815451	Clarification of T300 expiry in eLTE	LG Electronics	noted	2018-09-28 05:10:29	2018-09-28 06:11:33
R2-1815452	Discussion for clarifying the meaning of	LG Electronics	noted	2018-09-28 05:13:01	2018-09-28 06:13:49
R2-1815453	CR for clarifying the meaning of RA	LG Electronics	not treated	2018-09-28 05:13:01	2018-09-28 06:13:49
R2-1815454	CR on parameter description for beam failure detection and recovery	LG Electronics Inc.	not treated	2018-09-28 05:13:02	2018-09-28 06:13:49
R2-1815455	Discussion on handling of TCI update for	LG Electronics	not treated	2018-09-28 05:13:03	2018-09-28 06:13:49
R2-1815456	BFR configuration update for on-going	LG Electronics	noted	2018-09-28 05:13:03	2018-09-28 06:13:49
R2-1815457	CR on RA resource selection for BFR	LG Electronics	not treated	2018-09-28 05:13:03	2018-09-28 06:13:49
R2-1815458	CR for alignment of SR and BSR cancellation conditions	LG Electronics Inc.	merged	2018-09-28 05:13:04	2018-09-28 06:13:49

R2-1815459	(Draft)LS on evaluation of clock synchronization requirement for IIOT	vivo	not treated	2018-09-28 05:13:24	2018-09-28 06:50:37
R2-1815460	Clarifiaction of definition of Qoffsettemp	LG Electronics Deutschland	not pursued	2018-09-28 05:17:32	2018-09-28 06:11:33
R2-1815461	The handling of exceptional cases for	Xiaomi	not treated	2018-09-28 05:18:41	2018-09-28 08:04:49
R2-1815462	Corrections on Qoffsettemp for eLTE in 36.304	LG Electronics Deutschland	not pursued	2018-09-28 05:19:39	2018-09-28 06:11:33
R2-1815463	Corrections on cell selection and	Ericsson	withdrawn	2018-09-28 05:20:14	
R2-1815464	Handling RAT priorities in low freq NR	Ericsson	withdrawn	2018-09-28 05:20:16	
R2-1815465	Cell-specific priority based cell re-	Ericsson	withdrawn	2018-09-28 05:20:16	
R2-1815466	Cell-specific priority based cell re-	Ericsson	withdrawn	2018-09-28 05:20:16	
R2-1815467	Cell-specific priority based cell re-	Ericsson	withdrawn	2018-09-28 05:20:16	
R2-1815468	Paging duration in RAN	Ericsson	withdrawn	2018-09-28 05:20:17	
R2-1815469	LS on paging duration in RAN	Ericsson	withdrawn	2018-09-28 05:20:17	
R2-1815470	UE identity to calculate PF and PO	Ericsson	withdrawn	2018-09-28 05:20:17	
R2-1815471	LS on UE identity to calculate PF and PO	Ericsson	withdrawn	2018-09-28 05:20:17	
R2-1815472	Correction on paging for LTE connected to	Ericsson	withdrawn	2018-09-28 05:20:17	
R2-1815473	Signalling of default spectrum emission	Ericsson	withdrawn	2018-09-28 05:20:18	
R2-1815474	Clarification for absense of nr-NS-	Ericsson	withdrawn	2018-09-28 05:20:18	
R2-1815475	Measurement threshold with different	Ericsson	withdrawn	2018-09-28 05:20:19	
R2-1815476	Correction for Pcompensation	Ericsson	withdrawn	2018-09-28 05:20:19	
R2-1815477	Paging occasions in NR	Ericsson	withdrawn	2018-09-28 05:20:20	
R2-1815478	Paging in connected mode	Ericsson	withdrawn	2018-09-28 05:20:20	
R2-1815479	Clarification on paging in connected mode	Ericsson	withdrawn	2018-09-28 05:20:20	
R2-1815480	DRX value range in Idle and Inactive mode	Ericsson	withdrawn	2018-09-28 05:20:21	
R2-1815481	Extension of the defaultpagingCycle range	Ericsson	withdrawn	2018-09-28 05:20:21	
R2-1815482	Miscellaneous corrections related to p-	Ericsson	withdrawn	2018-09-28 05:20:22	
R2-1815483	Miscellaneous corrections	Ericsson	withdrawn	2018-09-28 05:20:23	
R2-1815484	Currection to BSR procedure with available UL-SCH resources	Qualcomm Inc	not pursued	2018-09-28 05:20:36	2018-09-28 05:23:36
R2-1815485	Corrections on Qoffsettemp for LTE in 36.304	LG Electronics Deutschland	not pursued	2018-09-28 05:22:15	2018-09-28 06:11:33
R2-1815486	Consideration on initial DL BWP and CORESET#0	ZTE Corporation, Sanechips	noted	2018-09-28 05:26:19	2018-09-28 06:55:58
R2-1815487	The handling of exceptional cases for UAC	Xiaomi Communications	not treated	2018-09-28 05:34:31	2018-09-28 08:03:09
R2-1815488	Reply LS on further clarification on PF and	vivo	noted	2018-09-28 05:36:38	2018-09-28 06:38:37
R2-1815489	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:44	2018-09-28 06:46:07
R2-1815490	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not pursued	2018-09-28 05:37:46	2018-09-28 06:46:07
R2-1815491	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:48	2018-09-28 06:46:07
R2-1815492	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:50	2018-09-28 06:46:07
R2-1815493	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:51	2018-09-28 06:46:07
R2-1815494	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:53	2018-09-28 06:46:07
R2-1815495	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:55	2018-09-28 06:46:07

R2-1815496	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:57	2018-09-28 06:46:07
R2-1815497	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai	not treated	2018-09-28 05:37:58	2018-09-28 06:46:07
R2-1815498	General aspects of Conditional HO	LG Electronics	not treated	2018-09-28 05:38:00	2018-09-28 06:02:38
R2-1815499	Signalling Delay in NTN	LG Electronics	not treated	2018-09-28 05:38:00	2018-09-28 06:02:38
R2-1815500	NR UE Capability Size Reduction	LG Electronics Inc.	not treated	2018-09-28 05:38:00	2018-09-28 06:02:38
R2-1815501	Miscellaneous corrections	Nanjing Ericsson Panda Com Ltd	not treated	2018-09-28 05:38:01	2018-09-28 06:29:06
R2-1815502	RACH carrier selection for NR-U	ITL	not treated	2018-09-28 05:46:29	2018-09-28 05:50:09
R2-1815503	Discussion on configuration of bwp inactivity Timer and default bwp	ITL	withdrawn	2018-09-28 05:56:57	2018-09-28 07:25:47
R2-1815504	Pre-BSR Enabling Fast Scheduling	Huawei Technologies	noted	2018-09-28 05:57:08	2018-09-28 06:56:12
R2-1815505	Distributed RRC functions for IAB	Huawei Technologies	not treated	2018-09-28 06:01:52	2018-09-28 06:56:12
R2-1815506	Route selection method for architecture 1a	Huawei Technologies	not treated	2018-09-28 06:06:19	2018-09-28 06:56:12
R2-1815507	Correction on on configuration of bwp inactivity Timer and default bwp	ITL	withdrawn	2018-09-28 06:10:02	2018-09-28 07:25:47
R2-1815508	Discussion on Cell-specific	LG Electronics	not treated	2018-09-28 06:10:51	2018-09-28 06:54:47
R2-1815509	Some considerations about congestion handling for IAB networks	Huawei Technologies	not treated	2018-09-28 06:14:12	2018-09-28 06:56:12
R2-1815510	Considerations on resource pool in NR	ITL	not treated	2018-09-28 06:16:38	2018-09-28 06:21:08
R2-1815511	Configuration for cell-specific	LG Electronics Inc	noted	2018-09-28 06:19:57	2018-09-28 06:54:47
R2-1815512	CR on MeasurementTimingConfiguration	Huawei, HiSilicon	revised	2018-09-28 06:21:50	2018-09-28 06:25:02
R2-1815513	Some considerations about flow control for IAB networks	Huawei Technologies	not treated	2018-09-28 06:22:37	2018-09-28 06:56:12
R2-1815514	Clarification for limited Tx capability	LG Electronics	not treated	2018-09-28 06:23:25	2018-09-28 06:54:47
R2-1815515	Clarification for limited Tx capability	LG Electronics	withdrawn	2018-09-28 06:23:41	
R2-1815516	Comparison between Bearer Mapping	vivo	not treated	2018-09-28 06:23:44	2018-09-28 06:29:29
R2-1815517	Selection of Parent for IAB-Node	vivo	not treated	2018-09-28 06:23:44	2018-09-28 06:29:29
R2-1815518	QoS parameters for IAB QoS handling	Huawei Technologies	not treated	2018-09-28 06:28:26	2018-09-28 06:56:12
R2-1815519	CR on handling of the Msg3 buffer for RA	LG Electronics	not treated	2018-09-28 06:31:21	2018-09-28 06:45:22
R2-1815520	IAB bearer mapping decisions	Huawei Technologies	not treated	2018-09-28 06:31:33	2018-09-28 06:56:12
R2-1815521	Necessity of reordering for V2X duplication	Samsung	not treated	2018-09-28 06:32:55	2018-09-28 06:47:13
R2-1815522	RLC max retransmissions report for non-duplication case [S057]	Samsung	noted	2018-09-28 06:32:55	2018-09-28 06:47:13
R2-1815523	RLC Failure Information on max RLC retransmissions for general case [S057]	Samsung	not treated	2018-09-28 06:32:55	2018-09-28 06:47:13
R2-1815524	Clarification on moreThanOneRLC	Samsung	not treated	2018-09-28 06:32:57	2018-09-28 06:47:13
R2-1815525	RLC Functions for NR Sidelink	Samsung	not treated	2018-09-28 06:32:58	2018-09-28 06:47:13
R2-1815526	PDCP Functions for NR Sidelink	Samsung	noted	2018-09-28 06:32:58	2018-09-28 06:47:13
R2-1815527	Discussion on TSN Requirements	Samsung	not treated	2018-09-28 06:32:58	2018-10-04 12:28:39
R2-1815528	CR on security negotiation for resume	Huawei, HiSilicon	not treated	2018-09-28 06:33:08	2018-09-28 06:58:51
R2-1815529	CR on handling of the Msg3 buffer for RA	LG Electronics	not treated	2018-09-28 06:34:39	2018-09-28 06:45:22
R2-1815530	Discussion on flow control	ITL	not treated	2018-09-28 06:34:49	2018-09-28 07:25:47
R2-1815531	Support of unicast and groupcast for NR	ITL	not treated	2018-09-28 06:36:27	2018-09-28 07:56:31
R2-1815532	Support of Multiple connectivity for IAB nodes	Futurewei Technologies	not treated	2018-09-28 06:38:11	2018-09-28 06:56:12
R2-1815533	Analysis of impact of different ARQ modes on PDCP layer	Huawei Technologies	not treated	2018-09-28 06:41:40	2018-09-28 06:56:12
R2-1815534	Discussion on supporting selective retransmission for PDCP data recovery	Huawei, HiSilicon	noted	2018-09-28 06:42:06	2018-09-28 06:54:49
R2-1815535	CR for supporting selective retransmission for PDCP data recovery	Huawei, HiSilicon	not treated	2018-09-28 06:42:06	2018-09-28 06:54:49
R2-1815536	Considering on supporting out-of-order	Huawei, HiSilicon	noted	2018-09-28 06:42:07	2018-09-28 06:54:49

R2-1815537	CR on supporting out-of-order deciphering	Huawei, HiSilicon	not treated	2018-09-28 06:42:08	2018-09-28 06:54:49
R2-1815538	Analysis of solutions for reliable transmission with HbH ARQ	Futurewei Technologies	not treated	2018-09-28 06:47:22	2018-09-28 06:56:12
R2-1815539	Correction to RA prioritization in RRC	Nokia, Nokia Shanghai Bell	not treated	2018-09-28 06:48:29	2018-09-28 06:59:41
R2-1815540	CR on introduction of gap request to 38.331	CMCC	not treated	2018-09-28 06:49:12	2018-09-28 07:14:48
R2-1815541	The handling of AS and NAS events triggered simultaneously	Xiaomi Communications	not treated	2018-09-28 06:49:23	2018-09-28 08:01:42
R2-1815542	Support of full configuration operation in	SHARP	not treated	2018-09-28 06:49:55	2018-09-28 06:59:52
R2-1815543	Correction to cell reselection in multi-	Huawei, HiSilicon	not treated	2018-09-28 06:52:15	2018-09-28 07:00:19
R2-1815544	SRB Types for Control Plane Alternative 2	Huawei Technologies	not treated	2018-09-28 06:53:09	2018-09-28 06:56:12
R2-1815545	Adaptation layer design	Futurewei Technologies	noted	2018-09-28 07:00:57	2018-09-28 07:17:35
R2-1815546	LS on Mobile-Terminated Early Data Transmission	Ericsson	not treated	2018-09-28 07:03:46	2018-09-28 09:01:10
R2-1815547	Discussion on reassembly function for architecture 1a	Futurewei Technologies	not treated	2018-09-28 07:14:59	2018-09-28 07:17:35
R2-1815548	Msg3 rebuilding	Nokia, Nokia Shanghai Bell	not treated	2018-09-28 07:18:04	2018-09-28 07:19:56
R2-1815549	CR on 38.331 for Counting numerology dependent timer	LG Electronics Mobile Research	not treated	2018-09-28 07:20:38	2018-10-01 11:13:45
R2-1815550	CR on 38.321 for PDCCH monitoring upon flexible TDD	LG Electronics Mobile Research	not treated	2018-09-28 07:23:14	2018-10-01 11:13:45
R2-1815551	Comparisons of C-plane alternatives	Huawei Technologies France	not treated	2018-09-28 07:24:20	2018-09-28 07:38:38
R2-1815552	CR on 38.321 for PHR for UL grant skipping	LG Electronics Mobile Research	not treated	2018-09-28 07:26:19	2018-10-01 11:13:45
R2-1815553	Further comparison between hop-by-hop ARQ and E2E ARQ	Futurewei Technologies	not treated	2018-09-28 07:43:31	2018-09-28 07:45:09
R2-1815554	CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation	ZTE Corporation, Sanechips	agreed	2018-09-28 12:58:30	2018-10-06 12:23:09
R2-1815555	CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I	ZTE Corporation, Sanechips	revised	2018-09-28 13:03:03	2018-10-06 12:23:09
R2-1815556	Correction to FDD/TDD Diff for NR PDCP Capabilities	Qualcomm Incorporated	agreed	2018-09-28 17:17:27	2018-09-28 17:46:45
R2-1815557	Evaluation of Uu interface for NR V2X	Intel Corporation	not treated	2018-09-29 00:51:40	2018-10-03 15:23:47
R2-1815558	UL/SL prioritization in eV2x	OPPO	not treated	2018-09-30 08:02:10	2018-09-30 11:44:13
R2-1815559	Left issues on PDCP reordering	OPPO	not treated	2018-09-30 08:03:50	2018-09-30 11:44:13
R2-1815560	CR on TS38.331 for T390 in UAC	Huawei, HiSilicon	not treated	2018-09-30 20:07:12	2018-10-01 01:26:55
R2-1815561	UL and SL prioritization	LG Electronics	not treated	2018-10-01 09:50:30	2018-10-01 11:13:45
R2-1815562	UL and SL prioritization in TS 36.321- alt2	LG Electronics	revised	2018-10-01 10:01:27	2018-10-01 11:13:45
R2-1815563	Retrieving SFN offset as part the E-CID	Ericsson	not pursued	2018-10-01 17:20:15	2018-10-02 21:01:21
R2-1815564	Report of Email Discussion [103#55][NR-U] 2-step RACH Model and Initial	Qualcomm Incorporated	noted	2018-10-01 22:53:53	2018-10-12 10:48:02
R2-1815565	Removal of redefinition of MCS-PSSCH-Range-r15	Qualcomm Incorporated	revised	2018-10-03 00:21:39	2018-10-03 21:33:25
R2-1815566	CR on Correction to clarify configuration aspects for handover between NR and E-	Ericsson	revised	2018-10-03 15:51:44	2018-10-09 04:03:55
R2-1815567	Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331)	Ericsson	revised	2018-10-03 15:51:45	2018-10-04 11:16:35
R2-1815568	Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-	Ericsson	revised	2018-10-03 15:51:47	2018-10-04 11:16:35
R2-1815569	CR on Inter-RAT handover between E-UTRAN with EN-DC configuration to	Ericsson	not pursued	2018-10-03 15:51:48	2018-10-04 11:16:35
R2-1815570	Slicing based waitTimer	Ericsson	not treated	2018-10-03 15:51:49	2018-10-04 11:16:35
R2-1815571	On scope of new SI on optimizations of UE radio capability signalling – NR/E-UTRA	Ericsson	not treated	2018-10-03 15:51:49	2018-10-04 11:16:35
R2-1815572	Assumptions and key issues on Study on optimisations on UE radio capability	Ericsson	not treated	2018-10-03 15:51:49	2018-10-04 11:16:35
R2-1815573	UE capability ID based solutions for signaling optimization	Ericsson	not treated	2018-10-03 15:51:49	2018-10-04 11:16:35
R2-1815574	Segmentation-based solutions for UE capability signaling optimization	Ericsson	not treated	2018-10-03 15:51:49	2018-10-04 11:16:35

R2-1815575	Further aspects of PLMN information in 2-step resume procedures	Ericsson	not treated	2018-10-03 15:51:49	2018-10-04 11:16:35
R2-1815576	Support for signaling only connection	Ericsson	not treated	2018-10-03 15:51:49	2018-10-05 14:40:02
R2-1815577	[DRAFT] LS on secured signalling-only	Ericsson	reserved	2018-10-03 15:51:49	
R2-1815578	CR to 38.331 on pendingRNAUpdate setting	Ericsson	revised	2018-10-03 15:51:49	2018-10-04 11:16:35
R2-1815579	Handling of subsequent NAS request in the middle of procedures	Ericsson	not treated	2018-10-03 15:51:50	2018-10-04 11:16:35
R2-1815580	AS/NAS interaction upon reception of RRC	Ericsson	not treated	2018-10-03 15:51:50	2018-10-04 11:16:35
R2-1815581	Handling of timer T380	Ericsson	not treated	2018-10-03 15:51:50	2018-10-04 11:16:35
R2-1815582	CR to 38.331 on handling of timer T380	Ericsson	not treated	2018-10-03 15:51:50	2018-10-04 11:16:35
R2-1815583	Location Information configuration and	Ericsson	not treated	2018-10-03 15:51:51	2018-10-04 11:16:35
R2-1815584	[E533] Autonomous gaps for CGI reporting	Ericsson	not treated	2018-10-03 15:51:51	2018-10-04 11:16:35
R2-1815585	CR to 38.331 on autonomous gaps for CGI	Ericsson	not treated	2018-10-03 15:51:51	2018-10-04 11:16:35
R2-1815586	LS to RAN4 about autonomous gaps for	Ericsson	not treated	2018-10-03 15:51:52	2018-10-04 11:16:35
R2-1815587	SSBs without SIB1 in CGI reporting	Ericsson	not treated	2018-10-03 15:51:52	2018-10-04 11:16:35
R2-1815588	[E255] CR to 38.331 on corrections related to CGI reporting timer T321	Ericsson	agreed	2018-10-03 15:51:52	2018-10-04 11:16:35
R2-1815589	CR to 36.331 on addition of CGI reporting	Ericsson	agreed	2018-10-03 15:51:53	2018-10-04 11:16:35
R2-1815590	Performance results for hop-by-hop vs.	AT&T	not treated	2018-10-03 22:12:06	2018-10-04 13:01:25
R2-1815591	E2E reliability in hop-by-hop RLC ARQ	AT&T	not treated	2018-10-03 22:13:05	2018-10-04 13:01:25
R2-1815592	LS on replay protection (S3-183059;	SA3	noted	2018-10-03 22:22:38	2018-10-03 22:57:47
R2-1815593	LS on initial NAS security agreements (S3-183066; contact: Qualcomm)	SA3	noted	2018-10-03 22:26:06	2018-10-03 22:57:47
R2-1815594	Reply LS on key update (S3-183071;	SA3	noted	2018-10-03 22:30:41	2018-10-03 22:57:47
R2-1815595	LS on maximum output size of SUPI concealment schemes (S3-183142;	SA3	noted	2018-10-03 22:36:32	2018-10-03 22:57:47
R2-1815596	LS on RRC Reestablishment during N2 Handover (S3-183143; contact::Huawei)	SA3	noted	2018-10-03 22:44:07	2018-10-03 22:57:47
R2-1815597	LS on the Impacts of increasing the MAC-I and NAS-MAC size (S3-183168; contact:	SA3	noted	2018-10-03 22:55:23	2018-10-03 22:57:47
R2-1815598	CR on Update of nas-SecurityParamFromNR according to LS	Ericsson	not treated	2018-10-04 09:53:28	2018-10-04 11:47:25
R2-1815599	CR to 38.331 on AS-NAS interaction for	Ericsson	not treated	2018-10-04 09:55:34	2018-10-04 11:47:25
R2-1815600	On the scope of intra-UE DL/UL multiplexing	Qualcomm Incorporated	not treated	2018-10-04 09:59:50	2018-10-05 16:31:42
R2-1815601	Report from session on Rel-15 LTE and NR idle/inactive mobility	Vice Chairman (CMCC)	approved	2018-10-04 10:34:29	2018-10-12 10:48:02
R2-1815602	Report from session on NR UP, IAB SI, NR-U SI, NR NTN SI, NR IIoT SI	Vice Chairman (MediaTek)	approved	2018-10-04 10:37:10	2018-10-12 10:48:02
R2-1815603	Report from session on NB-IoT	Session Chair (Huawei)	approved	2018-10-04 10:39:25	2018-10-12 10:48:02
R2-1815604	Report from session on MTC	Session Chair (Ericsson)	approved	2018-10-04 10:40:22	2018-10-12 10:37:55
R2-1815605	Report from session on Legacy LTE and Rel-15 LTE	Session Chair (InterDigital)	approved	2018-10-04 10:44:09	2018-10-12 10:48:02
R2-1815606	Report from session on Rel-15 Positioning WI	Session Chair (MediaTek)	approved	2018-10-04 10:47:51	2018-10-12 10:48:02
R2-1815607	Report from session on V2X (LTE and	Session Chair	approved	2018-10-04 10:49:10	2018-10-12 10:48:02
R2-1815608	Report from session on Rel-16 LTE Mobility Enhancements WI	Session Chair (Nokia)	approved	2018-10-04 10:50:07	2018-10-12 10:48:02
R2-1815609	Correction for SPS configuration	OPPO	noted	2018-10-04 10:53:26	2018-10-05 00:39:34
R2-1815610	Impact of signalling only connection on NR	Ericsson	not treated	2018-10-04 12:20:07	2018-10-05 14:40:02
R2-1815611	Correction on SPS configuration for	OPPO	agreed	2018-10-04 12:23:43	2018-10-05 00:32:09
R2-1815612	Correction on SPS configuration for	OPPO	agreed	2018-10-04 12:27:09	2018-10-05 00:32:09
R2-1815613	Corrections to multiple SPS configurations after sTTI and HRLLC merge	Ericsson, OPPO	agreed	2018-10-04 17:31:07	2018-10-04 22:06:42
R2-1815614	Corrections on the IDLE state	vivo	noted	2018-10-05 11:00:58	2018-10-06 04:36:16
R2-1815615	Corrections on the IDLE state	vivo	revised	2018-10-05 11:02:32	2018-10-06 04:36:16
R2-1815616	Corrections on handover for E-UTRA connected to 5GC	Huawei, HiSilicon	agreed	2018-10-06 00:45:30	2018-10-07 13:39:12
R2-1815617	Correction on fallback cases in EDT	Ericsson	revised	2018-10-06 14:12:03	
R2-1815618	CR on 38.331 for inter-node message in	Huawei, HiSilicon	not treated	2018-10-07 02:29:12	2018-10-12 10:48:02
R2-1815619	CR on 37.340 for RRC message handling	Huawei, HiSilicon	not treated	2018-10-07 02:32:24	2018-10-12 10:48:02

R2-1815620	CR for TS38.331 on the signalling of	Huawei, HiSilicon	not treated	2018-10-07 13:46:01	2018-10-12 10:48:02
R2-1815621	SPS for TDD sTTI	Huawei, HiSilicon	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815622	skipUplinkTxSPS for short TTI option 1	Huawei, HiSilicon	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815623	correction on power control	Huawei, HiSilicon	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815624	Various sTTI corrections	Intel Corporation	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815625	Various sTTI corrections	Intel Corporation	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815626	CR on 36331 Correction for sTTI	LG Electronics Mobile Research	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815627	Correction to MAC PDU subheaders including eLCID	Qualcomm Incorporated	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815628	CR for T312 on LTE HetNet mobility	Intel Corporation	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815629	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815630	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	agreed	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815631	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	agreed	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815632	CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I	ZTE Corporation, Sanechips	agreed	2018-10-09 05:05:41	2018-10-09 05:05:41
R2-1815633	DRAFT Reply LS on Dynamic PLR Allocation in eVoLP	Qualcomm Incorporated	revised	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815634	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	agreed	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815635	Miscellaneous corrections	Samsung	endorsed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815636	Introduction of Data Inactivity timer in	Ericsson	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815637	nn	Diana's tdocs	reserved	2018-10-16 12:21:51	
R2-1815638	CR on RRC triggered BWP switching	OPPO	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815639	Correction of BWP switching when SUL is	Huawei, HiSilicon	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815640	CR on bwp-InactivityTimer when PDCCH indicating BWP switching is received	OPPO, Huawei	agreed	2018-10-09 15:00:20	2018-10-09 15:00:20
R2-1815641	Correction to PDCCH monitoring	Ericsson	postponed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815642	Msg3 handling for swtiching between CBRA to CFRA	Samsung Electronics Co.,	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815643	Corrections on CFRA BFR termination	InterDigital	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815644	Correction for Reconfiguration of CFRA	Ericsson	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815645	nn	Diana's tdocs	reserved	2018-10-16 12:22:07	
R2-1815646	LS to RAN1 on PHR and SUL	RAN2	approved	2018-10-09 15:00:20	2018-10-09 15:00:20
R2-1815647	Introducing PDCP suspend procedure	LG Electronics	agreed	2018-10-10 10:44:03	2018-10-10 10:44:03
R2-1815648	Introducing PDCP suspend procedure	LG Electronics	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815649	CR on 36.321 for clarification of UL HARQ process for SUO case 1	MediaTek Inc.	postponed	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815650	RAN2 Skeleton Report on NTN	Thales, Nomor Research GmbH	revised	2018-10-16 12:22:13	
R2-1815651	Adding alternative way of measuring throughput for small data busts to UE	Ericsson, Nokia	postponed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815652	Correction to BFR procedure in C-DRX	Qualcomm	postponed	2018-10-10 13:23:50	2018-10-10 13:23:50
R2-1815653	Signaling to resolve RA-RNTI ambiguity	Ericsson	not pursued	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815654	CR for T312 on LTE HetNet mobility	Intel Corporation	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815655	skipUplinkTxSPS for short TTI option 1	Huawei, HiSilicon	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815656	CB 526 CP down selection and unified design	Qualcomm Incorporated	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815657	SFN offset for OTDOA	Intel Corporation	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815658	[DRAFT] LS on SFN offset for OTDOA	Intel Corporation	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815659	Capture use of motion information from motion sensors	Nokia, Nokia Shanghai Bell	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815660	TP for TR 38.874 on Control Plane Alt 2	Samsung Electronics R&D	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21

R2-1815661	Correction for sidelink measurement periodical triggering condition	OPPO	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815662	Correction for sidelink measurement periodical triggering condition	OPPO	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815663	Correction on UE capability	OPPO	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815664	Correction on UE capability	OPPO	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815665	LS on TX Profiles Provisioning	RAN2	approved	2018-10-11 07:08:18	2018-10-11 07:08:18
R2-1815666	SidelinkUEInformation Correction	OPPO	noted	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815667	Correction of UE capability for eV2X in TS 36.306	Qualcomm Incorporated	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815668	LS on sensing and reporting for Mode 3	RAN2	approved	2018-10-09 07:07:43	2018-10-09 07:07:43
R2-1815669	Addition of the missing agreement regarding MCS configuration for eV2X	Huawei, HiSilicon	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815670	UL and SL prioritization in TS 36.321- alt2	LG Electronics	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815671	Correction on PDCP for eV2X (Option 1)	OPPO	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815672	LS on clarification for limited Tx capability	Ericsson	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815673	Correction on V2X sidelink communication	Huawei, HiSilicon	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815674	Miscellaneous Corrections to SL PDCP Transmission and Reception	Ericsson	revised	2018-10-11 07:08:18	2018-10-11 07:08:18
R2-1815675	Correction on V2X sidelink communication	Huawei, HiSilicon	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815676	Correction on MCS for V2X sidelink communication in TS 36.302	Huawei, HiSilicon	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815677	Flushing HARQ buffer for carrier	LG Electronics	not pursued	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815678	Flushing HARQ buffer for carrier	LG Electronics	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815679	Removal of redefinition of MCS-PSSCH-Range-r15	Qualcomm Incorporated	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815680	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:03	
R2-1815681	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:03	
R2-1815682	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:03	
R2-1815683	[DRAFT] LS to SA2 on unicast, groupcast and broadcast in NR sidelink	Huawei	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815684	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:02	
R2-1815685	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:02	
R2-1815686	Correction for sidelink measurement periodical triggering condition	OPPO	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815687	Correction for sidelink measurement periodical triggering condition	OPPO	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815688	[V2X CB-708] PDCP correction	OPPO	noted	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815689	Removal of redefinition of MCS-PSSCH-Range-r15	Qualcomm Incorporated	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815690	LS on clarification for limited Tx capability	RAN2	approved	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815691	Miscellaneous Corrections to SL PDCP Transmission and Reception	Ericsson	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815692	LS to SA2 on unicast, groupcast and	RAN2	approved	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815693	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:03	
R2-1815694	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:03	
R2-1815695	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:03	
R2-1815696	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:03	
R2-1815697	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:03	
R2-1815698	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:03	
R2-1815699	nn	Kyeongin's tdocs	reserved	2018-10-16 14:00:03	
R2-1815700	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:45	
R2-1815701	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:45	
R2-1815702	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:45	
R2-1815703	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:45	
R2-1815704	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:45	
R2-1815705	nn	Kyeongin's tdocs	reserved	2018-10-16 14:02:45	
R2-1815706	LS on the interruption time during mobility in LTE	RAN2	approved	2018-10-12 09:16:43	2018-10-12 09:16:43
R2-1815707	[DRAFT] LS on TSN performance	Nokia	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815708	nn	Tero's tdocs	reserved	2018-10-16 14:02:45	
R2-1815709	nn	Tero's tdocs	reserved	2018-10-16 14:02:45	
R2-1815710	nn	Tero's tdocs	reserved	2018-10-16 14:02:45	
R2-1815711	ASN.1 restructuring of NPRACH resource configuration	Huawei, HiSilicon, BlackBerry UK Ltd	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04

R2-1815712	ASN.1 restructuring of NPRACH resource configuration	Huawei, HiSilicon, BlackBerry UK Ltd	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815713	Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-	Huawei, HiSilicon	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815714	Correction to additional SIB1 in eFeNB-IoT	ZTE Corporation, BlackBerry UK Ltd	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815715	Corrections to random access power control for TDD in 36.321	Huawei, HiSilicon, BlackBerry UK Ltd	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815716	Corrections to random access power control for TDD in 36.331	Huawei, HiSilicon, BlackBerry UK Ltd	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815717	Small correction to paging with wake up signal	ZTE Corporation, Ericsson	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815718	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell	postponed	2018-10-12 02:32:08	2018-10-12 02:32:08
R2-1815719	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell	postponed	2018-10-12 02:32:08	2018-10-12 02:32:08
R2-1815720	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell	postponed	2018-10-12 02:32:08	2018-10-12 02:32:08
R2-1815721	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815722	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815723	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815724	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815725	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815726	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815727	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815728	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815729	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815730	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815731	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815732	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815733	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815734	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815735	nn	Brian's tdocs	reserved	2018-10-16 14:02:55	
R2-1815736	[DRAFT] LS on UP-EDT procedure when resuming in a new eNB	Intel	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815737	Corrections to EDT in 36.321	Huawei, HiSilicon	agreed	2018-10-12 11:04:34	2018-10-12 11:04:34
R2-1815738	Corrections to EDT in 36.331	Huawei, HiSilicon	revised	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815739	Clarification on SI acquisition time	Ericsson	agreed	2018-10-16 14:02:57	2018-10-16 14:07:58
R2-1815740	MPDCCH monitoring for receiving HARQ ACK feedback	Nokia, Nokia Shanghai Bell	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815741	Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107)	ZTE Corporation	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815742	Correction on the measurement gaps for dense PRS	Huawei, HiSilicon, Qualcomm Incorporated,	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815743	Missing UE capability introduction for	Huawei, HiSilicon	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815744	RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC	Document Rapporteur	revised	2018-10-16 14:03:05	2018-10-18 10:05:04
R2-1815745	Corrections and clarifications for MO EDT	Ericsson	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815746	Correction on fallback cases in EDT	Ericsson	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815747	EDT when resuming in a new eNB	Intel Corporation	endorsed	2018-10-16 14:03:07	
R2-1815748	Corrections to EDT in 36.331	Huawei, HiSilicon	agreed	2018-10-12 09:16:43	2018-10-12 09:16:43
R2-1815749	Corrections and clarifications for MO EDT	Ericsson	agreed	2018-10-12 11:04:34	2018-10-12 11:04:34
R2-1815750	Msg3 buffer handling for EDT in 36.321	Huawei	agreed	2018-10-12 10:06:28	2018-10-12 10:06:28
R2-1815751	LS on UP-EDT procedure when resuming in a new eNB	RAN2	approved	2018-10-12 10:06:28	2018-10-12 10:06:28
R2-1815752	MPDCCH monitoring for receiving HARQ ACK feedback	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 04:30:57	2018-10-12 10:06:28

R2-1815753	nn	Emre's tdocs	reserved	2018-10-16 14:03:09	
R2-1815754	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815755	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815756	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815757	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815758	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815759	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815760	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815761	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815762	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815763	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815764	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815765	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815766	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815767	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815768	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815769	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815770	nn	Emre's tdocs	reserved	2018-10-16 14:03:10	
R2-1815771	Correction on Bluetooth and WLAN measurement collection in MDT	Huawei, HiSilicon, Intel Corporation	revised	2018-10-10 10:44:03	2018-10-10 10:44:03
R2-1815772	Corrections to euCA	Nokia, Nokia Shanghai Bell	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815773	Correction on PDCP duplication option 1	Huawei, HiSilicon	revised	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815774	Corrections on time reference information	Huawei, HiSilicon	agreed	2018-10-09 05:05:41	2018-10-09 05:05:41
R2-1815775	Correction on UE behaviour about	Huawei, HiSilicon	agreed	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815776	Clarification on final suitability check	Huawei, HiSilicon	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815777	Correction on definition of PEMAX1,	CMCC	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815778	CR to introduction of MICO mode	Fujitsu	postponed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815779	Clarification of Paging Monitoring Occasion	Qualcomm Incorporated	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815780	Correction to description of PO for default association	Samsung Electronics Co.,	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815781	[DRAFT] Reply LS on Further Agreements on Paging Occasions	Futurewei Technologies	revised	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815782	Clarification on paging in connected mode	Ericsson	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815783	Draft LS on the need of paging reception for the call-back when a UE is in limited	Intel Corporation	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815784	Clarification on UDC configuration	CATT, Intel Corporation,	agreed	2018-10-10 10:44:03	2018-10-10 10:44:03
R2-1815785	Corrections on the IDLE state	vivo	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815786	Correction for E-UTRA connected to 5GC	OPPO	agreed	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815787	Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-	Qualcomm India Pvt Ltd	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815788	Correction to DRB release	Google Inc.	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815789	TS36.331 CR on Open issues on E-UTRA connected to 5GC for INACTIVE	Intel Corporation	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815790	nn	HuNan's tdocs	reserved	2018-10-16 14:03:27	
R2-1815791	Consolidation of options & alternatives for IAB arch 1a	Qualcomm, AT&T, KDDI	not treated	2018-10-08 07:15:00	2018-10-08 07:15:00
R2-1815792	CR for security handling upon handover to eLTE in 36.331	ZTE Corporation, Sanechips	agreed	2018-10-08 10:33:41	2018-10-08 10:33:41
R2-1815793	TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corporation	postponed	2018-10-12 09:16:43	2018-10-12 09:16:43
R2-1815794	TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corporation	postponed	2018-10-12 09:16:43	2018-10-12 09:16:43
R2-1815795	[DRAFT] Reply LS on " LS on Using same	Ericsson	revised	2018-10-12 02:32:09	2018-10-12 02:32:09
R2-1815796	[DRAFT] Reply LS on initial NAS security	Qualcomm	revised	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815797	[DRAFT] Reply LS on the Impacts of increasing the MAC-I and NAS-MAC size	Huawei	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815798	Clarification on SSB-based BM, RLM and BFD	ZTE Corporation, Sanechips	withdrawn	2018-10-16 14:03:30	
R2-1815799	Correction on BFR termination criterion	CATT	not treated	2018-10-09 15:00:20	2018-10-09 15:00:20
R2-1815800	Clarification on dynamic grant override configured grant	vivo, Rapporteur (Nokia)	agreed	2018-10-09 15:00:20	2018-10-09 15:00:20
R2-1815801	Scheduling Request Overview	Rapporteur (Nokia), Ericsson	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57

R2-1815802	Transport of NAS Messages	Rapporteur	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815803	SON Overview	Rapporteur	agreed	2018-10-12 10:06:28	2018-10-12 10:06:28
R2-1815804	Clarification on basic voice support	Rapporteur	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815805	Signalling flow for transitions from RRC_INACTIVE to RRC_IDLE	Huawei, HiSilicon, Nokia	agreed	2018-10-16 14:03:37	2018-10-18 07:41:10
R2-1815806	RA triggers	Huawei, HiSilicon, Rapporteur (Nokia), Qualcomm	agreed	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1815807	Draft LS to SA5 on L2 measurements	Huawei, Hisilicon	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815808	Miscellaneous minor corrections	Ericsson	postponed	2018-10-16 14:03:39	
R2-1815809	Corrections to the applicability of 38.331 to EN-DC [H373]	Huawei, HiSilicon	postponed	2018-10-16 14:03:39	
R2-1815810	Clarification on configured grant timer in	Huawei, HiSilicon	agreed	2018-10-15 12:52:08	2018-10-15 12:52:08
R2-1815811	CR on timing reference of SMTC upon	Huawei, HiSilicon	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815812	LS on PDCCH monitoring periodicities for DCI format 2_0 (R1-1811968; contact:	RAN1	noted	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815813	Removal of restriction on RB removal and addition	NTT DOCOMO INC., Sharp	agreed	2018-10-12 09:16:43	2018-10-12 09:16:43
R2-1815814	Correction on UE behavior in inactive state	CATT	not treated	2018-10-08 10:33:41	2018-10-08 10:33:41
R2-1815815	release and addition of the DRB	Huawei, Hisilicon	postponed	2018-10-16 14:10:16	
R2-1815816	Correction to Default MAC Cell Group	Samsung	agreed	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815817	CR to 38331 on ul-DataSplitThreshold for SRB	ZTE Corporation, Sanechips	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815818	Clarification of PDCP-Config field	Ericsson	agreed	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815819	Correction to PDCP statusReportRequired	LG Electronics	agreed	2018-10-16 14:03:53	2018-10-18 07:41:10
R2-1815820	Clarification on Configuration of multiplePHR for EN-DC and NR-CA	Samsung Electronics	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815821	CR on supporting signaling only	Huawei, Hisilicon	postponed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815822	CR to 38.331 on clarification of guami-	Ericsson	agreed	2018-10-09 05:05:41	2018-10-09 05:05:41
R2-1815823	CR on fallback to the setup procedure	Huawei, HiSilicon	revised	2018-10-12 11:04:34	2018-10-12 11:04:34
R2-1815824	CR on ng-5g-s-tmsi-value Handling During the Reception of RRCSetup for	Samsung Electronics	reserved	2018-10-16 14:04:02	
R2-1815825	Clarification on handling of default parameters	Ericsson	agreed	2018-10-10 13:23:50	2018-10-10 13:23:50
R2-1815826	CR on SDAP reconfiguration handling	Qualcomm Incorporated	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815827	Clarification on reconfigurationWithSync	Samsung	reserved	2018-10-16 14:04:04	
R2-1815828	Correction on conditional presence of	Samsung	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815829	Discussion on processing Delay Requirements for RRC Procedures in NR	Huawei, Hisilicon	not treated	2018-10-08 13:31:21	2018-10-08 13:31:21
R2-1815830	CR to 36.331 introducing voice over NR capability	HUAWEI TECH. GmbH	not treated	2018-10-08 13:31:21	2018-10-08 13:31:21
R2-1815831	Corrections on reestablishment and	Intel Corporation	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815832	Corrections on re-establishment	MediaTek Inc.	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815833	Draft LS on RRC establishment cause in RRC reestablishment fallback case	Sharp	revised	2018-10-12 02:32:09	2018-10-12 02:32:09
R2-1815834	CR to 38.331 on the ambiguity of targetCellIdentity in	ZTE Corporation, Sanechips	agreed	2018-10-09 05:05:41	2018-10-09 05:05:41
R2-1815835	Handling on security keys for resume procedure (I774)	Intel Corporation, MediaTek Inc.	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815836	CR to 38.331 on pendingRNAUpdate	Ericsson	agreed	2018-10-16 14:04:12	2018-10-17 00:09:19
R2-1815837	CR for 38.331 for UE AS context AI2	Ericsson	reserved	2018-10-16 14:04:13	
R2-1815838	Handling of Resume Failure	Qualcomm Incorporated	agreed	2018-10-11 07:08:19	2018-10-11 07:08:19
R2-1815839	RIL I556, I557, I558 on RB handling when	Intel Corporation	revised	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815840	Introduction of power boosting indicator for pi2BPSK waveform	IITH, IITM, CeWIT, Nokia, Nokia Shanghai	revised	2018-10-09 05:05:41	2018-10-09 05:05:41
R2-1815841	[DRAFT] Reply LS on bandwidth	Ericsson	revised	2018-10-09 15:00:20	2018-10-09 15:00:20
R2-1815842	Bandwidth configuration for initial BWP	Ericsson	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815843	[DRAFT] Reply LS on RAN4 design on channel bandwidth	Qualcomm	revised	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815844	[DRAFT] LS on the total RRC	Mediatek	revised	2018-10-12 04:30:57	2018-10-12 04:30:57

R2-1815845	Introduction of cell level rate match parameters in servingCellConfig	ZTE Corporation, Sanechips	postponed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815846	SSBPositionsInBurst misalignement with RAN1	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815847	Introduction of power boosting indicator for pi2BPSK waveform	IITH, IITM, CeWIT, Nokia, Nokia Shanghai	agreed	2018-10-09 07:07:43	2018-10-09 07:07:43
R2-1815848	CR to 36.331 on clarification of guami-	Ericsson	withdrawn	2018-10-16 14:04:21	
R2-1815849	Correction to	Ericsson	agreed	2018-10-10 13:23:50	2018-10-10 13:23:50
R2-1815850	Correction to inter-RAT measurement for NR	Spreadtrum Communications	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815851	Correction on measurement reporting for best neighbour NR cells in events A3, A4 and A5	Huawei, HiSilicon	reserved	2018-10-16 14:04:27	
R2-1815852	RSRP result in SFTD measurement	MediaTek Inc.	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815853	CR for security handling for eLTE in 38.331	ZTE Corporation, Sanechips, Intel Corporation	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815854	Corrections for handover between NR and	Huawei, HiSilicon	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815855	Corrections for handover between NR and E-UTRA in TS36.331	Huawei, HiSilicon	revised	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815856	Corrections for Inter-RAT handover from E-UTRA in TS36.331	Huawei, HiSilicon	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815857	Cleanup on handover to EUTRA procedure	Google Inc.	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815858	Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-	Ericsson	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815859	[E201] CR to 36.331 on handling of mapped GUMMEI/GUAMI at idle mode mobility	Ericsson	agreed	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1815860	Some NR SA related corrections	Samsung Telecommunications	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815861	Reply LS on bandwidth configuration for	RAN2	approved	2018-10-09 15:00:20	2018-10-09 15:00:20
R2-1815862	Correction to UE capability procedures	Ericsson	reserved	2018-10-16 14:04:36	
R2-1815863	Introdcution of including EUTRA UE capability for MRDC usage	Huawei, HiSilicon	agreed	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815864	[DRAFT] LS on frequency separation class	Qualcomm	revised	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815865	Report of offline discussion #22 Corrections on reestablishment and	Intel Corporation	withdrawn	2018-10-16 14:04:38	
R2-1815866	UE capabilty for IDC mechanism for EN-DC operation	Qualcomm Incorporated	agreed	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815867	nn	Diana's tdocs	reserved	2018-10-16 14:04:39	
R2-1815868	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	agreed	2018-10-15 12:52:09	2018-10-15 12:52:09
R2-1815869	Addition of TDD UL/DL configuration to OTDOA assistance data	Qualcomm Incorporated	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815870	Correction to BFR procedure	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815871	Correction of BWP switching when SUL is	Huawei, HiSilicon	agreed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1815872	Msg3 handling for swtiching between CBRA to CFRA	Samsung Electronics Co.,	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815873	nn	Diana's tdocs	reserved	2018-10-16 14:04:44	
R2-1815874	nn	Diana's tdocs	reserved	2018-10-16 14:04:44	
R2-1815875	nn	Diana's tdocs	reserved	2018-10-16 14:04:44	
R2-1815876	nn	Diana's tdocs	reserved	2018-10-16 14:04:44	
R2-1815877	nn	Diana's tdocs	reserved	2018-10-16 14:04:44	
R2-1815878	nn	Diana's tdocs	reserved	2018-10-16 14:04:44	
R2-1815879	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	
R2-1815880	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	
R2-1815881	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	
R2-1815882	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	
R2-1815883	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	
R2-1815884	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	
R2-1815885	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	
R2-1815886	nn	Diana's tdocs	reserved	2018-10-16 14:04:45	

R2-1815887	Additional UE capabilities for NR standalone	Qualcomm Incorporated	agreed	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815888	Additional UE capabilities for NR standalone	Qualcomm Incorporated	agreed	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815889	TP for RACH in NR-U	Qualcomm Incorporated	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815890	Text Proposal to TR 38.889 v0.1.0	InterDigital	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815891	TP for Mobility and RLM in NR-U	Qualcomm Incorporated	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815892	Draft LS on requesting study of system level aspects of NR-U	Qualcomm Incorporated	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815893	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815894	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815895	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815896	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815897	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815898	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815899	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815900	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815901	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815902	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815903	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815904	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815905	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815906	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815907	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815908	nn	Ozcan's tdocs	reserved	2018-10-16 14:04:47	
R2-1815909	Report from session on L1 Parameters	Session Chair (Ericsson)	reserved	2018-10-16 14:04:47	
R2-1815910	Corrections to the field decriptions of	Huawei, HiSilicon	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815911	SIB size limitation [M201]	MediaTek Inc.	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815912	PDCCH Monitoring Occasions in SI Window_Option 2	Samsung Electronics Co.,	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815913	SI storing and validity clarification	Nokia, Nokia Shanghai Bell	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815914	SIB1 missing or not scheduled UE behaviour	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815915	Corrections to the SIB1 acquisition	Intel Corporation	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815916	CR on UE behaviour upon lack of TAC in SIB1	Nokia, Nokia Shanghai Bell	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815917	SIBs needed before connection setup	Nokia, Nokia Shanghai Bell	agreed	2018-10-16 14:04:58	2018-10-18 07:41:10
R2-1815918	[DRAFT] LS on TSN performance evaluation	Nokia, Nokia Shanghai Bell	revised	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815919	TP on TSN requirements	Nokia, Nokia Shanghai Bell	not treated	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815920	CR on PUCCH-ConfigCommon	vivo	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815921	Correction in 38331 for SRS-config	Huawei, HiSilicon	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815922	CR for TS38.331 on MIB	Huawei, HiSilicon	agreed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1815923	CR for TS38.331 on PowerControl-related	Huawei, HiSilicon	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815924	Clarification on hopping parameters for	Ericsson	not pursued	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815925	Correction on SRS-TPC-CommandConfig	MediaTek Inc.	agreed	2018-10-16 14:05:07	2018-10-16 14:07:58
R2-1815926	Notes	Session Chair (Ericsson)	approved	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815927	nn	Henning's tdocs	reserved	2018-10-16 14:05:08	
R2-1815928	nn	Henning's tdocs	reserved	2018-10-16 14:05:08	
R2-1815929	nn	Henning's tdocs	reserved	2018-10-16 14:05:08	
R2-1815930	Unified design for IAB arch 1a	Qualcomm (Rapporteur)	noted	2018-10-11 02:39:32	2018-10-11 02:39:32
R2-1815931	RDI handling for data forwarding at handover	Nokia, Nokia Shanghai Bell	agreed	2018-10-10 07:10:10	2018-10-10 07:10:10
R2-1815932	On Demand SI Message Acquisition_option 2 (E160)	Samsung Electronics Co.,	revised	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815933	[DRAFT] Reply LS on higher layer configuration for search space monitoring	NTT DOCOMO, INC.	revised	2018-10-12 04:30:58	2018-10-12 04:30:58

R2-1815934	CR on SI request procedure in TS38.331	ZTE Corporation, Sanechips	agreed	2018-10-11 07:08:19	2018-10-11 07:08:19
R2-1815935	SI reception upon handover (RIL#I610, I611)	Intel Corporation	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815936	[C203] CSS configuration for SI acquisition	CATT	merged	2018-10-10 13:23:50	2018-10-10 13:23:50
R2-1815937	CR on ssb-ToMeasure in	Huawei, HiSilicon	agreed	2018-10-16 14:05:16	2018-10-18 07:41:10
R2-1815938	ASN.1 correction to fr-InfoListSCG in CG-Config	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815939	Missing optionality bit in CG-ConfigInfo	Ericsson, Qualcomm Inc	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815940	CR on MeasurementTimingConfiguration	Huawei, HiSilicon	postponed	2018-10-16 14:05:19	
R2-1815941	UE context handling during handover to LTE-5GC (36.331)	Ericsson, Google Inc.	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815942	Correction of frequency band indication in	Huawei, HiSilicon	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815943	Correction to configuration of	Huawei, HiSilicon	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815944	A3 and A5 corrections - neighbouring cell definition	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815945	CR on value range for RSRQ-Range	Huawei, HiSilicon	not treated	2018-09-28 06:11:27	2018-09-28 06:11:27
R2-1815946	[Offline discussion 29] Common coreset for a NSA-only (P)Scell	ZTE Corporation (Rapporteur)	noted	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815947	Change of logical channel ID via reconfiguration of RLC bearer	ZTE Corporation, Sanechips	postponed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815948	CR for introducing PSCell frequency in CG-Config	ZTE Corporation, Sanechips	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815949	Correction on system information blocks acquisition	Google Inc.	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815950	Correction on Bluetooth and WLAN measurement collection in MDT	Huawei, HiSilicon, Intel Corporation	agreed	2018-10-12 07:31:05	2018-10-12 07:31:05
R2-1815951	Correction on PDCP duplication option 1	Huawei, HiSilicon	agreed	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815952	E573 Configuration of SRB1 during Resume	Ericsson	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815953	RAN2 Skeleton Report on NTN	Thales, Nomor Research GmbH	not treated	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815954	Reply to LS on Preamble Power Ramping Counter (R1-1811964; contact: Fujitsu)	RAN1	noted	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815955	LS on ss-PBCH-BlockPower definition (R1-1811965; contact: Intel)	RAN1	noted	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815956	LS on MO configuration with multiple SSB SCS for a given SSB frequency (R1-	RAN1	noted	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815957	[DRAFT] Reply LS on security requirements for RRC connection release	Intel	revised	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815958	Security for RRC connection release	Intel Corporation	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815959	RRC connection release triggered by	Huawei, HiSilicon	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815960	Unified design for IAB arch 1a	Qualcomm (Rapporteur)	not treated	2018-10-11 04:47:46	2018-10-11 04:47:46
R2-1815961	CR to 38.304 on Release and Redirect in 2-	Ericsson	agreed	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1815962	Correction on CN type indication for Redirection from NR to E-UTRA	Qualcomm Incorporated	agreed	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1815963	Clarification on Counter check procedure	Samsung Research	agreed	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815964	UE context handling during handover to NR	Ericsson, Google Inc.	agreed	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1815965	38.331CR Corrections on UP security	OPPO	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815966	Introducing procedure for reporting RLC failures	Samsung Telecommunicatio	agreed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1815967	Corrections regarding RLC failure reporting	Samsung Telecommunicatio	agreed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1815968	CORESET#0 configuration when SIB1 is not broadcast	ZTE Corporation, Sanechips	revised	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1815969	Agreements for MR-DC with 5GC	ZTE Corporation	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815970	Correction for E-UTRA connected to 5GC	OPPO	agreed	2018-10-11 07:08:19	2018-10-11 07:08:19
R2-1815971	Clarification on RRC state transition	Google Inc.	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21

R2-1815972	Corrections to TS 36.304 for E-UTRA connected to 5GC	Huawei, HiSilicon	agreed	2018-10-11 07:08:19	2018-10-11 07:08:19
R2-1815973	Corrections for E-UTRA connected to 5GC	Huawei, HiSilicon	agreed	2018-10-11 07:08:19	2018-10-11 07:08:19
R2-1815974	Correction on triggering idle mode	Huawei, HiSilicon	agreed	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815975	Correction to Ambiguous Terminologies with respect to Cell Ranking	Samsung Electronics	agreed	2018-10-16 14:05:47	2018-10-18 00:45:38
R2-1815976	clarification of mobility state detection	Huawei, Hisilicon	agreed	2018-10-16 14:05:48	2018-10-18 21:13:09
R2-1815977	Connections on 38.304	OPPO	agreed	2018-10-12 02:32:09	2018-10-12 02:32:09
R2-1815978	CR on PDCCH monitoring occasions for paging in TS 38.304	ZTE Corporation, Sanechips	agreed	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1815979	[DRAFT] LS on security requirements for Integrity protection for DRBs in MR-DC	Intel	revised	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815980	Text Proposal for UE Radio Capability Signaling Size Analysis	Huawei, HiSilicon, MediaTek Inc.	not treated	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815981	CR to power ramping (option1)	Fujitsu	revised	2018-10-11 10:43:21	2018-10-11 10:43:21
R2-1815982	Summary of Offline discussion#12 on RB removal and addition	NTT DOCOMO	noted	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815983	[DRAFT] LS on drb-Identity assignment in	NTT DOCOMO,	revised	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815984	Clarification on measObjectNR of SFTD between PCell and PSCell	ZTE Corporation, Sanechips	agreed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815985	[DRAFT] Reply LS on optimisation of UE capability signalling	MediaTek	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815986	CR to power ramping (option1)	Fujitsu	agreed	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815987	[DRAFT] LS on Resume failure in	LGE	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815988	[DRAFT] LS on agreements regarding UE behaviour in RRC_INACTIVE while going	Samsung	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815989	[DRAFT] LS on RNAU without context	Huawei	revised	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1815990	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815991	ReconfigurationWithSync and Random Access (offline discussion 20)	Samsung	noted	2018-10-11 15:01:05	2018-10-11 15:01:05
R2-1815992	Remain issue for T302 and T390	CATT	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1815993	CR to 38.331 on stopping T390 and UE	Ericsson	agreed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1815994	[DRAFT] LS to SA1 on RRCReject T302 Timer Exemption for MPS and MCS	Vencore Labs	revised	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1815995	LS to RAN2 on Data Volume measurements (S5-186392; contact:	SA5	noted	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815996	Summary of offline discussion 69 (i.e. B	Apple	noted	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815997	Clarification on B events in EN-DC	Apple	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1815998	Discussion on measurement gap configuration in re-establishment	MediaTek Inc.	noted	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1815999	CR on ssb-PositionsInBurst mismatch issue	Nokia, Nokia Shanghai Bell	postponed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1816000	Report of offline discussion 71 on ANR	Intel Corporation	reserved	2018-10-16 14:06:05	
R2-1816001	CR on Correction to clarify configuration aspects for handover between NR and E-	Ericsson	withdrawn	2018-10-16 14:06:05	
R2-1816002	Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331)	Ericsson	withdrawn	2018-10-16 14:06:06	
R2-1816003	[DRAFT] LS on the search space of cross-carrier scheduling	vivo	revised	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816004	Clarification on final suitability check	Huawei, HiSilicon	agreed	2018-10-16 14:06:08	2018-10-18 21:13:09
R2-1816005	Clarification of Paging Monitoring Occasion	Qualcomm Incorporated	agreed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1816006	Reply LS on Further Agreements on	RAN2	approved	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1816007	LS on the need of paging reception for the call-back when a UE is in limited service	RAN2	approved	2018-10-14 12:04:22	2018-10-14 12:04:22
R2-1816008	Correction to DRB release	Google Inc.	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816009	Suspend and resume of security	Intel Corporation	postponed	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1816010	Reply LS on " LS on Using same counter	RAN2	approved	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816011	Reply LS on L2 measurements	RAN2	approved	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816012	Reply LS on the Impacts of increasing the MAC-I and NAS-MAC size	RAN2	approved	2018-10-12 04:30:58	2018-10-12 04:30:58

R2-1816013	LS on RRC establishment cause in RRC reestablishment fallback case	RAN2	approved	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816014	LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-	RAN2	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1816015	Corrections for handover between NR and E-UTRA in TS36.331	Huawei, HiSilicon	revised	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816016	LS on frequency separation class	RAN2	approved	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816017	Agreements for MR-DC with 5GC	ZTE Corporation	not treated	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1816018	Reply LS on optimisation of UE capability signalling	RAN2	approved	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816019	Corrections on reestablishment and	Intel Corporation	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1816020	DRAFT Reply LS on Dynamic PLR Allocation in eVoLP	Huawei	revised	2018-10-16 14:06:16	
R2-1816021	Msg3 buffer handling for EDT in 36.321	Huawei	revised	2018-10-12 04:30:58	2018-10-12 04:30:58
R2-1816022	Reply LS on initial NAS security	RAN2	approved	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816023	Reply LS on higher layer configuration for search space monitoring	RAN2	approved	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816024	LS on the total RRC Configuration size	RAN2	approved	2018-10-15 12:52:10	2018-10-15 12:52:10
R2-1816025	CR on timing reference of SMTC upon	Huawei, HiSilicon	agreed	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816026	LS on requesting study of system level	RAN2	approved	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816027	SI storing and validity clarification	Nokia, Nokia Shanghai Bell	revised	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816028	TP for RACH in NR-U	Qualcomm Incorporated	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816029	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816030	Corrections on reestablishment and	Intel Corporation	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816031	LS on Resume failure in RRC_INACTIVE	RAN2	approved	2018-10-12 11:04:35	2018-10-12 11:04:35
R2-1816032	Clarification on B events in EN-DC	Apple	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816033	[DRAFT] Further reply LS on ssb-PositionsInBurst mismatch in SIB1 and	Nokia	revised	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1816034	SI storing and validity clarification	Nokia, Nokia Shanghai Bell,	agreed	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816035	CR on UE behaviour upon lack of TAC in SIB1	Nokia, Nokia Shanghai Bell	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816036	On Demand SI Message Acquisition_option 2 (E160)	Samsung Electronics Co.,	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816037	Summary on offline discussion 001	Intel Corporation	postponed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816038	Corrections for handover between NR and	Huawei, HiSilicon	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816039	Corrections for handover between NR and E-UTRA in TS36.331	Huawei, HiSilicon	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816040	Offline discussion report on [103bis#40][NR] Setup of EN-DC and	Ericsson	revised	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816041	Reply LS on Dynamic PLR Allocation in eVoLP	RAN2	approved	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816042	LS on SFN offset for OTDOA	RAN2	revised	2018-10-12 07:31:06	2018-10-12 07:31:06
R2-1816043	LS on TSN performance evaluation	RAN2	approved	2018-10-12 04:30:57	2018-10-12 04:30:57
R2-1816044	CR on PUCCH-ConfigCommon	vivo	agreed	2018-10-12 11:04:35	2018-10-12 11:04:35
R2-1816045	Offline discussion report on [103bis#40][NR] Setup of EN-DC and	Ericsson	postponed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816046	LS on UE identity to calculate PF and PO	RAN2	approved	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1816047	Correction to full configuration	Google Inc.	agreed	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816048	Reply LS on intra-band combination for NR CA and MR-DC (R4- 1813862;	RAN4	not treated	2018-10-12 09:16:44	2018-10-12 09:16:44
R2-1816049	CORESET#0 configuration when SIB1 is not broadcast	ZTE Corporation, Sanechips	agreed	2018-10-12 10:06:29	2018-10-12 10:06:29
R2-1816050	[DRAFT] LS on the search space of cross-	vivo	reserved	2018-10-16 14:06:35	
R2-1816051	LS on drb-Identity assignment in EN-DC	RAN2	approved	2018-10-14 12:25:36	2018-10-14 12:25:36
R2-1816052	RIL I556, I557, I558 on RB handling when	Intel Corporation	agreed	2018-10-16 14:06:35	2018-10-16 14:07:58
R2-1816053	Reply LS on security requirements for RRC connection release	RAN2	approved	2018-10-12 11:04:35	2018-10-12 11:04:35

R2-1816054	LS on security requirements for Integrity protection for DRBs in MR-DC	RAN2	approved	2018-10-12 11:04:35	2018-10-12 11:04:35
R2-1816055	Further reply LS on ssb-PositionsInBurst mismatch in SIB1 and	RAN2	approved	2018-10-12 11:04:35	2018-10-12 11:04:35
R2-1816056	CR on fallback to the setup procedure	Huawei, HiSilicon	agreed	2018-10-12 11:04:35	2018-10-12 11:04:35
R2-1816057	LS on RNAU without context relocation	RAN2	approved	2018-10-12 11:04:35	2018-10-12 11:04:35
R2-1816058	LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-	RAN2	approved	2018-10-14 12:04:22	2018-10-14 12:04:22
R2-1816059	LS on SFN offset for OTDOA	RAN2	approved	2018-10-14 12:04:22	2018-10-14 12:04:22
R2-1816060	[DRAFT] Reply LS on Dynamic PLR Allocation in eVoLP	Qualcomm Incorporated	revised	2018-10-11 15:01:04	2018-10-11 15:01:04
R2-1816061	Text proposal for control plane latency issues in IAB	Intel Corporation	agreed	2018-10-18 00:25:34	2018-10-19 16:29:36
R2-1816062	Control plane data mapping for Architecture 1a	Samsung	available	2018-10-18 00:29:30	2018-10-24 15:35:24
R2-1816063	RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC	Document Rapporteur (BlackBerry)	endorsed	2018-10-18 10:17:51	2018-10-19 12:44:48
R2-1816064	LS on the search space of cross-carrier scheduling	RAN2	approved	2018-10-19 08:40:45	2018-10-23 15:38:05
R2-1816065	LS on MIMO layer configuration	RAN2	approved	2018-10-19 08:53:44	2018-10-19 12:44:48
R2-1816066	LS on late drop UE capabilities	RAN2	approved	2018-10-19 11:03:53	2018-10-22 18:19:01
R2-1816067	Reply LS on RAN4 design on channel bandwidth	RAN2	approved	2018-10-19 11:12:00	2018-10-20 07:39:38
R2-1816068	LS to SA1 on RRCReject T302 Timer Exemption for MPS and MCS	RAN2	approved	2018-10-19 11:18:22	2018-10-19 13:55:47

APPENDIX E

3GPP TSG-RAN WG2 meeting #105 **R2-1900002**

Agenda Item: 2.2

Source: ETSI MCC

Title: Report of 3GPP TSG RAN2#104 meeting, Spokane, USA

Document for: Approval

Report of 3GPP TSG RAN WG2 meeting #104
Spokane, USA
12 - 16 November, 2018

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Organisation of the meeting

Meeting:	3GPP TSG RAN2#104
Meeting location:	Spokane, USA
Duration:	12 - 16.11.2018
Host:	NF3
TSG RAN WG2 Chairman:	Richard Burbidge (Intel Corporation) (richard.c.burbidge@intel.com)
TSG RAN WG2 Vice chairman:	Hu Nan (CMCC) (hunan@chinamobile.com)
TSG RAN WG2 Vice chairman:	Johan Johansson (MediaTek) (johan.johansson@mediatek.com)
TSG RAN WG2 MCC Support:	Juha Korhonen (ETSI MCC) (juha.korhonen@etsi.org)
Email reflector:	3GPP_TSG_RAN_WG2@LIST.ETSI.ORG
Technical documents:	ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_104/Docs
Next meetings:	TSG RAN2#105, 25.02 - 01.03.2019, Athens, Greece
	TSG RAN2#105bis, 08.04 - 12.04.2019, China

Statistics/Executive Summary

TSG RAN2#104 was held in Spokane, USA, hosted by NF3. The meeting had 9 breakout sessions in addition to the main session. The main session was mainly about NR, especially NR control plane and NR Late Drop. The breakout sessions were:

- Rel-15 LTE and NR idle/inactive mobility
- NR UP, IAB SI, NR-U SI, NR IIoT SI
- NB-IoT
- MTC
- Legacy LTE, Rel-15 LTE, and NR NTN SI,
- Rel-15 Positioning
- V2X (LTE and NR)
- Rel-16 LTE Mobility Enhancements WI, IIoT
- L1 Parameters

The statistics from this meeting are:

- 309 participants checked in (registered: 415 participants).
- 3007 Tdoc numbers allocated with 2893 available contributions. (See the attached tdoc list)
- 60 incoming liaison statements, out of which 57 were noted.. The remaining 3 liaisons are to be treated in RAN2#105 meeting.
- 23 outgoing liaison statements.
- 68 email approvals/discussions scheduled after RAN2#104 meeting, see Annex F for details.

- Number of CRs submitted: 1479. Out of these, 541

were agreed. See Annex E for details.

1 Opening of the meeting (9 AM)

1.1 Call for IPR

The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs** they become aware of.

The delegates were asked to take note that they were hereby invited:

- to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.
- to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc)

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG2 Chairman.

1.2 Network usage conditions

The PCG has laid down the following network usage conditions

1. **Users shall not use the network to engage in illegal activities. This includes activities such as copyright violation, hacking, espionage or any other activity that may be prohibited by local laws.**

2. **Users shall not engage in non-work related activities that consume excessive bandwidth** or cause significant degradation of the performance of the network.

Since the network is a shared resource, users should exercise some basic etiquette when using the 3GPP network at a meeting. It is understood that high bandwidth applications such as downloading large files or video streaming might be required for business purposes, but delegates should be strongly discouraged in performing these activities for personal use. Downloading a movie or doing something in an interactive environment for personal use essentially wastes bandwidth that others need to make the meeting effective. The meeting chairman should remind end users that the network is a shared resource; the more one user grabs, the less there is for another. Email and its attachments already take up significant bandwidth (certain email programs are not very bandwidth efficient). In case of need the chair can ask the delegates to restrict IT usage to things that are essential for the meeting itself.

1. DON’T place your WiFi device in ad-hoc mode

2. DON’T set up a personal hotspot in the meeting room

3. DO try 802.11a if your WiFi device supports it

4. DON’T manually allocate an IP address

5. DON’T be a bandwidth hog by streaming video, playing online games, or downloading huge files

6. DON’T use packet probing software which clogs the local network (e.g., packet

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sniffers or port scanners)

1.3 Other

In accordance with the Working Procedures it is reaffirmed that:
(i) compliance with all applicable antitrust and competition laws is required;

(ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and

(iii) the chairman will conduct the meeting with strict impartiality and in the interests of 3GPP

Note on (i): In case of question please contact your legal counsel.
Note on (ii): WIDs don't need to be submitted to the RAN2 meeting and will typically not be discussed here either.

2 General

THANK YOU to companies that request TDoc numbers and submit contributions early before deadline (really appreciated). Will start to refrain from treating late documents.

2.1 Approval of the agenda

A draft schedule for the week is provided as a separate document, distributed via the RAN2 email reflector and made available during the meeting week in the RAN2\Inbox\Chairmans_Notes folder.

R2-1816200 Agenda for RAN2#104 Chairman agenda
=> Approved

2.2 Approval of the report of the previous meeting

R2-1816201 RAN2#103bis Meeting Report MCC report Late
- MediaTek think that the MTC report captured that SPS was not supported in R16 but think it is still under discussion in RAN1

=> Approved

2.3 Reporting from other meetings

2.4 Others

Rapporteur changes

Spec former rapporteur proposed new rapporteur

Isolated impact analysis
Note that an isolated impact analysis is required for Rel-8 to Rel-15 CRs from Q3 2018 onwards.

Only corrections where there is a proven problem are allowed for frozen releases (Rel-8 to Rel-15).

RAN2 WG compendium
Latest version can always be found at ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Org/RAN2_Compendium/

Drafting rules
Note that specification drafting rules in TR 21.801 must be followed when drafting a CR and draft TS/TR.

Latest version can always be found at http://www.3gpp.org/ftp/specs/archive/21_series/21.801/

Time Budget

The time budget endorsed at RAN-81 is available in RP-182180

Offline discussions during RAN2 meeting

Chairs will allocate a number for offline discussions during the meeting. Create a folder starting with this number within inbox/drafts and use this to share any documents relating to the offline discussion (please use format "[Offline-nnn] ....", i.e. a 3 digit number). Also use this number in the title of any reflector emails relating to this offline discussion. (please use format "[RAN2#104 Offline-nnn]....."). Do not share documents over the reflector during the meeting

If you need a tdoc number for the outcome of your offline discussion and one is not already allocated in the notes, you must request your number by Thursday 23:59 local time.

3 Incoming liaisons

Note: LSs are moved to the respective agenda items if any.

New LS in (during RAN2#104)

4 Void

5 Void

6 LTE: Rel-12 and earlier releases

Including corrections related to the following WIs:
(LTE-L23, leading WG: RAN2, REL-8, started: Sep. 06, closed: Dec. 08, WID: RP-080747)
(LTE_CA-Core, leading WG: RAN1, REL-10, started: Dec. 09, closed: June 11, WID: RP-100661)
(LTE_UL_MIMO-Core, leading WG: RAN1, REL-10, started: Dec.09, closed: June 11, WID: RP-100959)
(LTE_eDL_MIMO-Core, leading WG: RAN1, REL-10, started: Dec.09, closed: March 11, WID: RP-100196)
(LTE_Relay-Core, leading WG: RAN1, REL-10, started: Dec. 09, closed: June 11, WID: RP-110911)
(MBMS_LTE_enh-Core, leading WG: RAN2, REL-10, started: June 10, closed: March 11, WID: RP-101244)
(MDT_UMTSLTE-Core, leading WG: RAN2, REL-10, started: Dec. 09, closed: June 11, WID: RP-100360)
(eICIC_LTE-Core, leading WG: RAN1, REL-10, started: March 10, closed: June 11, WID: RP-100383)
(SONenh_LTE-Core, leading WG: RAN3, REL-10, started: March 10, closed: June 11, WID: RP-101004)
(LTE_CA_enh-Core, leading WG: RAN1, REL-11, started: March 11, closed: Mar.13, WID: RP-121999)
(MBMS_LTE_SC-Core, leading WG: RAN2, REL-11, started: June 10, closed: Sep.12, WID: RP-120258)
(LTE_eDDA-Core, leading WG: RAN2, REL-11, started: March 11, closed: Dec.12, WID: RP-120256)
(LCS_LTE-NBPS-Core, leading WG: RAN2, REL-11, started: March 09, closed: June. 13, WID: RP-131259)
(eICIC_enh_LTE-Core, leading WG: RAN1, REL-11, started: March 11, closed: Dec. 12, WID: RP-120860)
(SPIA_IDC_LTE-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Dec. 12, WID: RP-111355)
(COMP_LTE_DL-Core, leading WG: RAN1, REL-11, started: Sep.11, closed: Dec.12, WID: RP-111365)
(COMP_LTE_UL-Core, leading WG: RAN1, REL-11, started: Sep.11, closed: Dec.12, WID: RP-111365)
(LTE_TDD_add_subframe, leading WG: RAN1, REL-11, started: March 12; closed: Sep. 12, WID: RP-120384)
(FS_HetNet_eMOB_LTE, leading WG: RAN2, REL-11, started: March 11, closed: Sep. 12, WID: RP-110709)
(LTE_enh_dl_ctrl-Core, leading WG: RAN1, REL-11, started: Dec. 11, closed: Dec. 12, WID: RP-120871)
(LTE_SC_enh_dualC-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Dec.14, WID: RP-141797)
(LTE_SC_enh_L1-Core, leading WG: RAN1, REL-12, started: Dec.13, closed: Dec.14, WID: RP-132073)
(LTE_D2D_Prox-Core, leading WG: RAN1, REL-12, started: Mar.14, closed: Mar.15, WID: RP-142043)
(MBMS_LTE_OS-Core, leading WG: RAN2, REL-12, started: Sep.13, closed: Dec.14, WID: RP-140282)
(LTE_NAICS-Core, leading WG: RAN1, Rel-12, started: Mar 14, closed: Dec.14, WID: RP-140519)
(LC_MTC_LTE-Core, leading WG: RAN1, REL-12, started: Jun 13, closed: Dec 14, WID: RP-140522)
(GCSE_LTE-MBMS_CM-Core, leading WG: RAN3, started: Sep. 14, closed: Mar. 2015, WID: RP-141035)
(LTE_CA_TDD_FDD-Core, leading WG: RAN1, REL-12, started: Jun 13, closed: Jun 14, WID: RP-140465)
(LCS_BDS-LTE-Core, leading WG: RAN2, REL-12, started: Mar 13, closed: Dec 13, WID: RP-130416)

(LTE_eDL_MIMO_enh-Core, leading WG: RAN1, REL-12, started: Sep 12, closed: June 14, WID: RP-121416)
(HetNet_eMOB_LTE-Core, leading WG: RAN2, REL-12, started: Dec.12, , closed: Sep 14, WID: RP-122007)
(Cov_Enh_LTE-Core, leading WG: RAN1, REL-12, started: Jun.13, closed: Jun.14, WID: RP-130833)
(LTE_TDD_eIMTA-Core, leading WG: RAN1, REL-12, started: Dec 12, closed: Jun.14, WID: RP-121772)
(SCM_LTE-Core, leading WG: RAN2, REL-12, started: Mar.14, closed: Sep.14, WID: RP-140434)

Including any LTE corrections related to the following joint UMTS/LTE WIs:
(SIMTC-RAN_OC-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Sep. 12, WID: RP-111373)
(eMDT_UMTSLTE-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Dec.12, WID: RP-121204)
(SONenh2_LTE_UTRA-Core, leading WG: RAN3, REL-11, started: Sep.11, closed: Dec.12, WID: RP-120314)
(rSRVCC-GERAN, leading WG: GERAN2, REL-11, started: Sep.11, closed: Nov.13, WID: GP-111290)
(EHNB_enh3-Core, leading WG: RAN3, REL-12, started: Sep.12, closed: Dec 13, WID: RP-130741)
(MTCe_RAN-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Sep.14, WID: RP-132053)
(UTRA_LTE_WLAN_interw-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Sep.14, WID: RP-132101)
(LTE_UTRA_IncMon-Core, leading: RAN4, REL-12, started: Dec.13, closed: Dec. 14, WID: RP-132061)
Documents in this agenda item will be handled in a break out session

6.1 Agreed in principle CRs

R2-1817607 CR for T312 on LTE HetNet mobility Intel Corporation CR Rel-15 36.331 15.3.0 3506 4 F HetNet_eMOB_LTE-Core R2-1815654
=> early implementable table needs to be added
=> The CR is revised in R2-1818599

R2-1818599 CR for T312 on LTE HetNet mobility Intel Corporation CR Rel-15 36.331 15.3.0 3506 5 F HetNet_eMOB_LTE-Core R2-1815654
=> the CR is agreed

6.2 Other

7 LTE: Rel-13

7.1 WI: Further LTE Physical Layer Enhancements for MTC

(LTE_MTCe2_L1-Core, leading WG: RAN1, REL-13; started: Sep. 14, closed: Mar. 16, WID: RP-150492)
Documents in this agenda item will be handled in a break out session

R2-1816375 Correction to RSRP threshold in 36.331 Huawei, HiSilicon CR Rel-13 36.331 13.11.0 3688 - F LTE_MTCe2_L1-Core, NB_IOT-Core

R2-1816376 Correction to RSRP threshold in 36.331 Huawei, HiSilicon CR Rel-14 36.331 14.8.0 3689 - A LTE_MTCe2_L1-Core, NB_IOT-Core

R2-1816377 Correction to RSRP threshold in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3690 - A LTE_MTCe2_L1-Core, NB_IOT-Core

- ZTE thinks that the CR is not correct considering that it is not always the lowest value.
- Intel thinks the measurement is already not very accurate, so 1 dB difference should not matter much. QC agrees.
- Ericsson agrees with ZTE and thinks that the CR is not needed considering that the values are already provided in the RAN4 table.

⇒ **Not pursued**

R2-1816620 Correction for BL UEs and UEs in CE in RRC_CONNECTED Ericsson CR Rel-15 36.331 15.3.0 3647 1 F LTE_MTCe2_L1-Core R2-1815082

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⇒ **Update the title to reflect the intention better.**

⇒ **Replace the text in the reason for change with "As captured in sections 5.2 and 5.3, BL UEs and UEs in CE are excluded from monitoring paging channel and/or SIB1-BR and acquiring system information when in RRC_CONNECTED. This is not captured in section 4.2.1."**

⇒ **Add the following to the summary of change after impact analysis "Implementation of this CR from Rel-13 would not cause interoperability issues." Remove "The intended behavior is applicable also for Release 13 and Release 14 BL UEs and UEs in CE."**

⇒ **Replace "BL UEs, UEs in CE and NB-IoT" with "BL UEs, UEs in CE and NB-IoT UEs"**

⇒ **Add an entry to the magic table.**

[CB# 400] The updated version can be provided in R2-1818651 [Ericsson]

R2-1818651 Corrections on paging monitoring and SI acquisition in RRC_CONNECTED for BL UEs and UEs in CE Ericsson, BlackBerry UK Ltd. discussion Rel-13 LTE_MTCe2_L1-Core

⇒ **The CR is agreed**

R2-1817338 Paging with fractional nB value Sequans Communications discussion Rel-13 LTE_MTCe2_L1-Core

R2-1817339 Correction on paging with fractional nB_Option1 Sequans Communications CR Rel-13 36.304 13.8.0 0759 - F LTE_MTCe2_L1-Core

R2-1817343 Correction on paging with fractional nB_Option2 Sequans Communications CR Rel-13 36.304 13.8.0 0760 - F LTE_MTCe2_L1-Core

R2-1817541 Paging with fractional nB value Huawei, HiSilicon discussion Rel-13 LTE_MTCe2_L1-Core

R2-1818428 Paging configurations and fractional nB value Ericsson discussion Rel-13 LTE_MTCe2_L1-Core

The discussion for the Tdocs above

- Sequans wonders how it would work with the proposal from Huawei. Huawei explains that the intention was not to capture anything originally, but they have found out that this would not work considering that MME has to accept what is proposed by the UE.
- Intel thinks the UE would know if there may be something that does not work with the configuration and request values from the CN that would work with such configuration.
- Ericsson thinks it may still work with the current mechanism if network schedules the transmission accordingly by avoiding collusions.
- Sequans thinks short DRX cycles should not be ruled out when the UE is in CE.
- Gemalto wonders if it is realistic to consider e.g. voice application for deep coverage. Sequans explains that this is not the case.
- Intel wonders if it would be problem to assume that fractional mode operation leads to zero in the formula for calculating paging occasions.
- QC states that 36.201 gives some guidelines how the mode operation should work, i.e. no issue is identified due to fractional nB values.
- Ericsson thinks it would be good to check and considering that this is not so urgent we can continue the discussion in the next meeting.
- Sequans do not agree with QC that there is no issue, but would like to check further.

✉ **[104#48][eMTC R13] Paging configurations and fractional nB value (Sequans)**

whether/how the formula works when nB is a fractional value
how the distribution for the POs is affected
how it can be assured that RAN1 principle “a UE not being configured with overlapping CSSs” is observed.
Intended outcome: Email discussion report to next meeting
Deadline: Thursday 2019-02-07

7.2 WI: Narrowband IOT

(NB_IOT-Core; leading WG: RAN1; started: Sep. 15; target: Jun. 16; WID: RP-152284)

Documents in this agenda item will be handled in a break out session

R2-1816285 Starting Timers in the Middle of PDCCH Periods NTT DOCOMO INC. discussion Rel-13 NB_IOT-Core

- Huawei think the MAC spec is clear and we just start the timer according to that. Also the examples aren’t correct.
- Ericsson think that if there is an interoperability issue we may need to clarify, but otherwise not.

⇒ **noted**

R2-1816353 Subframe Counting Scenarios for R2-1816285 NTT DOCOMO INC. discussion

Offline discussion #300 to check whether the observations are aligned to the intended mechanism and if not whether this requires a change in the specifications [DoCoMo]

- After offline, DoCoMo report that some offline will continue to make sure that everyone has the same understanding, but no changes to the specification proposed at this time.

⇒ **Noted**

R2-1818384 Discussion on ack-NACK-NumRepetitions configuration NTT DOCOMO INC. discussion

Proposal 1: **Confirm that, if *ack-NACK-NumRepetitions* in Msg4 is absent, the UE continues to use the value *ack-NACK-NumRepetitions-Msg4* for the coverage level in which the RA procedure succeeded.**

Proposal 2: **The above interpretation is already captured in the current 3GPP specifications, hence any clarification is not needed.**

- Huawei are not sure the RAN1 specification is interpreted in the way proposed in this paper, but ack-NACK-NumRepetitions-Msg4 is used for Msg4 and ack-NACK-NumRepetitions otherwise. Huawei agree that was the intention but that is not what is specified.
- Softbank think we should not discuss RAN1 specification in RAN2 but rather ask RAN1 their intention.
- Huawei think the RRC specification is not correct, so we need to correct something.

R2-1816368 Discussion on HARQ-ARQ num repetitions Huawei, HiSilicon discussion Rel-13 NB_IOT-Core

Proposal 1: To mandate the signalling of *ack-NACK-NumRepetitions* in RRC Connection Setup and RRC Connection re-establishment messages in rel-13.

Proposal 2: To discuss whether to clarify the UE behaviour in rel-14 onwards or have the same solution as in rel-13.

- Ericsson think that the UE knows to use the value provided for Msg4. Huawei think the default values don’t normally work this way in RRC.
- Sequans think there is a problem if there is a configuration without this value provided as it is ambiguous which value to use.
- Huawei think the need ON contradicts with use of a default value and therefore the specification is wrong. Qualcomm agree. Ericsson think it was intentional.
- Softbank think that the need ON with special action is OK so current specification should be fine.
- Qualcomm think it may be too later for Rel-13 but Rel-14 could be fine.
- ZTE think the need should be OP, not ON, and agree with Huawei analysis.
- DoCoMo don’t think it can be done in Rel-14 because NW doesn’t know the UE release early enough. Softbank agree.

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- DoCoMo think the current specification is fine. Ericsson agree.
- Intel wonders where the resume case is specified.
- Nokia doesn't think eNB needs to be mandated to include the IE because in some cases UE should use the earlier value. Huawei think the only case where it needs to be mandated is the very first time (RRC setup) when there is no previous value. Ericsson thinks it also needs to be provided when the CE level changes.
- Huawei think that the current specification is not correct, and since there are already Rel-13 UEs in the field then the only way to do it is to mandate the eNB to include the IE.
- Ericsson wonder whether there has been any problem seen in IOT testing. Huawei think there has not been a problem because networks include the IE.
- LG don't want to update the specification and think this is a NW implementation issue.
- ZTE thinks there is a specification issue even if we have not seen an issue in the field.

After offline:

- Ericsson thinks it is not OK to leave this open indefinitely.
- Huawei think that if we need to update Rel-14 we have to do it ASAP.
- Qualcomm think that the issue can be fixed by NW implementation. Huawei think without changing the spec the only way to solve this in Rel-13 is for NW to include the IE always. Softbank agree with Qualcomm. Sequans would like to see Rel-14 specification solution, and have the same understanding as Qualcomm and Huawei on Rel-13.
- Qualcomm wonder whether we will need a capability indication if we change the UE behaviour.
- ZTE would prefer to delete the specified behaviour in the field description and follow the need ON from rel-13. If we do that then we can keep the same behaviour in later releases.
- Softbank would like to verify in the next meeting whether we can agree that NW implementation can fix the issue without any specification change.

⇒ **RAN2 confirms that there are 2 interpretations in the field**

✉ **[104#41][NB-IoT R13] If and how to correct the signalling of ack-NACK-NumRepetitions (Qualcomm)**
Intended outcome: email discussion report, and if necessary CRs for agreement in the next meeting.
Deadline: Thursday 2019-02-07

R2-1816369 Mandating the signalling of ack-NACK-NumRepetition when there is no previous value
Huawei, HiSilicon CR Rel-13 36.331 13.11.0 3682 - F NB_IOT-Core

R2-1816370 Mandating the signalling of ack-NACK-NumRepetition when there is no previous value
Huawei, HiSilicon CR Rel-14 36.331 14.8.0 3683 - A NB_IOT-Core

R2-1816371 Mandating the signalling of ack-NACK-NumRepetition when there is no previous value
Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3684 - A NB_IOT-Core

R2-1816372 Discard the AS context and ResumeId when initiating the establishment of a RRC Connection
Huawei, HiSilicon CR Rel-13 36.331 13.11.0 3685 - F NB_IOT-Core

- Ericsson, Intel, Nokia, are OK with this CR
- LG are not sure this case exists because there shouldn't be a context upon establishment. Huawei clarify this is in case UE has been suspended but is now on a cell not supporting resume, and the behaviour is copied from LTE.
- LG ask whether it can be done from Rel-14 only?

⇒ **Can have Rel-14 with early implementation allowed**

R2-1816373 Discard the AS context and ResumeId when initiating the establishment of a RRC Connection
Huawei, HiSilicon CR Rel-14 36.331 14.8.0 3686 - A NB_IOT-Core

⇒ **Impacted functionality on the cover page should be updated.**

⇒ **Update to Cat.F**

⇒ **Revised in R2-1818624**

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R2-1816374 Discard the AS context and ResumeId when initiating the establishment of a RRC Connection
Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3687 - A NB_IOT-Core

⇒ **Revised in R2-1818625**

R2-1817521 Correction on interFreqNeighCellList Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Hisilicon CR Rel-13 36.331 13.11.0 3761 - F NB_IOT-Core

- DoCoMo ask what happens when Rel-13 UE accesses a Rel-15 NW which can provide the IE. Huawei think the UE can't do anything with the parameter. DoCoMo think the issue could be when the UE doesn't expect the IE.
- ZTE are ok with this if there are no concerns from anybody else.

⇒ **Add "and if received by the UE it should be ignored."**

⇒ **With this change the CR is agreed in R2-1818626**

R2-1817536 Correction on interFreqNeighCellList Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Hisilicon CR Rel-14 36.331 14.8.0 3762 - A NB_IOT-Core

⇒ **With this change the CR is agreed in R2-1818627**

R2-1817537 Correction on interFreqNeighCellList Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Hisilicon CR Rel-15 36.331 15.3.0 3763 - F NB_IOT-Core

⇒ **Agreed**

7.3 Other LTE Rel-13 WIs

Including corrections related to the following WIs:
(LTE_LAA-Core, leading WG: RAN1, REL-13; started: June 15, closed: Dec. 15, WID: RP-151045)
(LTE_CA_enh_b5C-Core, leading WG: RAN1, REL-13; started: Dec. 14, closed: Dec. 15, WID: RP-151984)
(LTE_SC_PTM-Core, leading WG: RAN2, REL-13; started: June 15, closed: Dec. 15, WID: RP-151110)
(LTE_eD2D_Prox-Core, leading WG: RAN2, REL-13; started: Dec. 14, closed: Mar. 16, WID: RP-150441)
(LTE_MC_load-Core, leading WG: RAN2, started: Mar. 15, closed: Dec. 15, WID: RP-152181)
(LTE_dualC_enh-Core, leading WG: RAN2, started: Mar. 15, closed: Dec. 15, WID: RP-151739)
(LTE_extDRX-Core; leading WG: RAN2; started: Mar. 15; closed: Mar. 16; WID: RP-150493)
(LTE_EBF_FDMIMO-Core; leading WG: RAN1; started: June. 15; closed: Dec. 15; WID: RP-151085)
(LTE_eMDT2-Core; leading WG: RAN2; started: Sep. 15; closed: Dec 15; WID: RP-151611)
(UTRA_LTE_iPos_enh-Core; leading WG: RAN2; started: Sep. 15; closed: Dec 15; WID: RP-152251)
(LTE_WLAN_radio-Core, leading WG: RAN2, started: Mar. 15, closed: Mar. 16, WID: RP-152213)
(LTE_WLAN_radio_legacy-Core; leading WG: RAN2; started: Sep. 15; closed: Mar 15; WID: RP-151615)

Including any LTE corrections related to the following joint UMTS/LTE WIs:
(ACDC-RAN-Core; leading WG: RAN2; REL-13; started: Mar. 15; closed: Dec. 15; RP-150662)
Documents in this agenda item will be handled in a break out session

7.3.1 Agreed in principle CRs

R2-1816533 Correction on maximum symbols for PUSCH transmission in UpPTS Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3705 - F LTE_UL_CAP_enh-Core
=> Withdrawn

R2-1816534 Correction on maximum symbols for PUSCH transmission in UpPTS Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3706 - A LTE_UL_CAP_enh-Core
=> Withdrawn

R2-1816581 Clarification to CA fallback band combinations Nokia, Nokia Shanghai Bell CR Rel-13 36.306 13.9.0 1649 3 F LTE_CA_enh_b5C-Core R2-1813917
=> The CR is agreed

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R2-1816582 Clarification to CA fallback band combinations Nokia, Nokia Shanghai Bell CR Rel-14 36.306 14.8.0 1650 1 A LTE_CA_enh_b5C-Core R2-1813918
=> The CR is agreed

R2-1816583 Clarification to CA fallback band combinations Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1651 1 A LTE_CA_enh_b5C-Core R2-1813919
=> The CR is agreed

R2-1818542 Correction on maximum symbols for PUSCH transmission in UpPTS Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3556 2 F LTE_UL_CAP_enh-Core R2-1815630
=> Update reference to 36.211 in cover page
=> The CR is agreed in R2-1818600 with change above

R2-1818543 Correction on maximum symbols for PUSCH transmission in UpPTS Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3557 2 A LTE_UL_CAP_enh-Core R2-1815631
=> Update reference to 36.211 in cover page
=> The CR is agreed in R2-1818601 with change above

7.3.2 Other

R2-1816584 Clarification to UE capabilities for CA Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3564 1 F LTE_CA_enh_b5C-Core R2-1813761
- Qualcomm doesn't think there is a need for the note
- Ericsson also thinks it is up to UE implementation

=> RAN2 agrees that the correct understanding is that the fields in UECapabilityEnquiry (e.g. requestReducedFormat) can be used without eNB knowing UE support of the flag. No need for specification change.
=> The CR is not pursued

R2-1816585 Clarification to UE capabilities for CA Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3565 1 A LTE_CA_enh_b5C-Core R2-1813762
=> The CR is not pursued

R2-1816586 Clarification to UE capabilities for CA Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3566 1 A LTE_CA_enh_b5C-Core R2-1813763
=> First change is acceptable and second change will be removed in CR and cover page
=> Change category to F
=> The CR is agreed with the first change only in R2-1818983

R2-1816587 Corrections to eCA configurations Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3561 1 F LTE_CA_enh_b5C-Core R2-1813764
=> a Note has to be added to the MCC page indicating that Networks using this feature have tos tart from this version of the specification
=> Unclick ME box
=> The CR is agreed in R2-1818980 with change above

R2-1816588 Corrections to eCA configurations Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3562 1 A LTE_CA_enh_b5C-Core R2-1813765
=> The CR is agreed in R2-1818981 with ME box unclicked

R2-1816589 Corrections to eCA configurations Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3563 1 A LTE_CA_enh_b5C-Core R2-1813766
=> The CR is agreed in R2-1818982 with ME box unclicked

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R2-1816825 UL power control information for PUCCH format 4/5 in SIB Qualcomm Incorporated CR Rel-13 36.331 13.11.0 3715 - F LTE_CA_enh_b5C-Core
- Nokia asks if UEs can work without this change and how does the network know whether the UE supports this.
- Qualcomm explains that the network can have some work around and there is no need for a capability.
- Intel thinks that if we have a work around then why do we introduce it in SIB. Qualcomm explains that it should have been there in the first place.

=> Add the server notes that the latest version of the spec should be implemented for eCA
=> Flagged to be added to plenary report
=> The CR is agreed

R2-1816826 UL power control information for PUCCH format 4/5 in SIB Qualcomm Incorporated CR Rel-14 36.331 14.8.0 3716 - A LTE_CA_enh_b5C-Core
=> The CR is agreed

R2-1816827 UL power control information for PUCCH format 4/5 in SIB Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3717 - A LTE_CA_enh_b5C-Core
=> The CR is agreed

R2-1816868 Correction on the power control value for PUCCH format 4 and format 5 Huawei, HiSilicon CR Rel-13 36.331 13.11.0 3722 - F LTE_CA_enh_b5C
=> The CR is not pursued

R2-1816869 Correction on the power control value for PUCCH format 4 and format 5 Huawei, HiSilicon CR Rel-14 36.331 14.8.0 3723 - A LTE_CA_enh_b5C
=> The CR is not treated

R2-1816870 Correction on the power control value for PUCCH format 4 and format 5 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3724 - A LTE_CA_enh_b5C
=> The CR is not treated

R2-1816865 Correction on PUCCH format for Massive CA Huawei, HiSilicon CR Rel-13 36.331 13.11.0 3719 - F LTE_CA_enh_b5C
=> the CR is not pursued

R2-1816866 Correction on PUCCH format for Massive CA Huawei, HiSilicon CR Rel-14 36.331 14.8.0 3720 - A LTE_CA_enh_b5C
=> the CR is not pursued

R2-1816867 Correction on PUCCH format for Massive CA Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3721 - A LTE_CA_enh_b5C
=> the CR is not pursued

R2-1817086 n1PUCCH-AN-CS-ListP1-r13 asn1 error correction Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3734 - F LTE_LAA-Core, LTE_CA_enh_b5C-Core, TEI13
- Ericsson thinks that the network would need to know if the UE supports this
- Nokia explains that without this the feature wouln't work and we would have to invalidate previous version of the specification.

=> The CR is revised in R2-1818606

R2-1818606 n1PUCCH-AN-CS-ListP1-r13 asn1 error correction Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3734 - F LTE_LAA-Core, LTE_CA_enh_b5C-Core, TEI13
- Nokia explains that Ericsson and Nokia are ok with the dummy and a capability.
- Qualcomm thinks we need to the ASN.1 properly and we have to look at which capability to use

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=> Moved to email discussion

✉ **[103bis#xx][LTE - eCA] (Nokia)**
Intended outcome: agree to CR on n1PUCCH-AN-CS-ListP1-r13 asn1 error correction
Deadline: one week after the meeting

Not treated

R2-1817087 n1PUCCH-AN-CS-ListP1-r13 asn1 error correction Nokia, Nokia Shanghai Bell CR Rel-14 36.331 14.8.0 3735 - F LTE_LAA-Core, LTE_CA_enh_b5C-Core, TEI13

R2-1817088 n1PUCCH-AN-CS-ListP1-r13 asn1 error correction Nokia, Nokia Shanghai Bell CR Rel-13 36.331 13.11.0 3736 - F LTE_LAA-Core, LTE_CA_enh_b5C-Core, TEI13

R2-1818951 Number of PDCCH/EPDCCH received parallel for TDD, Rel-14 CR for 36.302, WI code: LTE7u_UL_CAP_enh-Core
=> the CR is postponed

R2-1818952 Number of PDCCH EPDCCH SPDCCH received parallel for TDD, Rel-15 CR for 36.302, WI code: LTE_UL_CAP_enh-Core, LTE_sTTIandPT-Core
=> the CR is postponed

8 LTE Rel-14

8.1 WI: LTE based V2X

(LTE_SL_V2V-Core; leading WG: RAN1; started: Dec. 15; closed: Sept 16; WID: RP-161603)
(LTE_V2X-Core, leading WG: RAN1; REL-14; started: June 16; closed: Mar. 17; WID: RP-162519)
Documents in this agenda item will be handled in a break out session

8.1.1 Agreed in principle CRs

R2-1816347 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-14 36.331 14.8.0 3543 3 F LTE_V2X-Core R2-1815686
=> Agreed.

R2-1816348 Correction for sidelink measurement periodical triggering condition OPPO CR Rel-15 36.331 15.3.0 3544 3 F LTE_V2X-Core R2-1815687
=>Agreed.

8.1.2 Other

R2-1816345 Correction on HARQ re-transmission resource selection OPPO CR Rel-14 36.321 14.8.0 1385 - F LTE_V2X-Core
[Huawei, Ericsson]: For the first change, for random selection L1 will indicate all available resources. Second change is just editorial change.
=> [Offline discussion#701]: Revise the CR according to the comments above (R2-1818711)
=> Agreed in R2-1818711

R2-1816346 Correction on HARQ re-transmission resource selection OPPO CR Rel-15 36.321 15.3.0 1386 - A LTE_V2X-Core
=> [Offline discussion#701]: Revise the CR according to the comments above (R2-1818712)
=> Agreed in R2-1818712

8.2 WI: Enhancements of NB-IoT

(NB_IOTenh-Core; leading WG: RAN1; REL-14; started: June 16; closed: Jun. 17; WID: RP-171060)
Note: SC-PTM for eNB-IoT is handled under 8.12.1

Documents in this agenda item will be handled in a break out session

8.2.1 In principle agreed CRs

R2-1816378 Editorial restructuring of NPRACH resource configuration Huawei, HiSilicon, BlackBerry UK Ltd
CR Rel-14 36.331 14.8.0 3494 3 F NB_IOTenh-Core R2-1815711

⇒ **agreed**

R2-1816379 Editorial restructuring of NPRACH resource configuration Huawei, HiSilicon, BlackBerry UK Ltd
CR Rel-15 36.331 15.3.0 3495 3 A NB_IOTenh-Core R2-1815712

⇒ **agreed**

8.2.2 Other

8.3 WI: Further Enhanced MTC for LTE

(LTE_feMTC-Core; leading WG: RAN1; REL-14; started: June 16; closed: Jun. 17; WID: RP-170532)

Documents in this agenda item will be handled in a break out session

R2-1816284 Discussion on Invalid Subframe Handling for Timer Counting NTT DOCOMO INC.
discussion Rel-14 LTE_feMTC-Core

- Huawei thinks the starting time is clearly specified in 36.321.

[CB#401] To check which alternative is the intended mechanism and whether this requires a change in the specifications [DoCoMo]

- DoCoMo reports that in general the understanding is Alternative 1 (based on the comments from those who provided views offlione), except one company which thinks Alternative 2 is the correct interpretation.

8.4 Other LTE Rel-14 WIs

(LTE_eLAA-Core; leading WG: RAN1; REL-14; started: Dec. 15; closed: Mar. 17; WID:RP-162229)
(LTE_WLAN_aggr-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Mar. 17; WID: RP-160923)
(LTE_eMob-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Mar. 17; WID:RP-162503)
(UTRA_LTE_iPos_enh2-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Dec. 16; WID: RP-162026)
(LTE_LATRED_L2-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Sep. 16; WID: RP-160667)
(MBMS_LTE_enh2-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Sep. 17; WID:RP-162231)
(LTE_SRS_switch; leading WG: RAN1; REL-14; started: Mar.16: closed: Dec. 16; WID: RP-160935)
(LTE_meas_gap_enh-Core; leading WG: RAN4; REL-14; started: Mar. 16; closed: Jun. 17; WID: RP-160912)
(LTE_high_speed-Core; leading WG: RAN4; REL-14; started: Dec. 15. 16; closed: Dec. 16; WID: RP-160172)
(LTE_VoLTE_ViLTE_enh; leading WG: RAN2; REL-14; started: Sep. 16; closed: Mar. 17: WID: RP-161856)
(LTE_UE_cat_1Rx-Core; leading WG: RAN4; REL-14; started: Sep. 16; closed: Jun. 17: WID: RP-171149)
(LTE_UL_CAP_enh-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Mar. 17: WID: RP-162488)
(LTE_eFD_MIMO-Core; leading WG: RAN1; REL-14; started: Mar. 2016; closed: Mar. 17: WID: RP-160623)
(LTE_MUST-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Dec. 16: WID: RP-161019)
(eDECOR-UTRA_LTE-Core; leading WG: RAN3; REL-14; started: Dec. 16; closed: Mar. 17: WID: RP-162543)

Documents in this agenda item will be handled in a break out session

8.4.1 Agreed in principle CRs

R2-1816525 CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation ZTE Corporation, Sanechips
CR Rel-14 36.331 14.8.0 3672 1 F TEI14 R2-1815554

- Ericsson is concerned as there are some discussions in Ran3 about LTE being connected to 5GC. ZTE explains that there is no issue.
- Qualcomm as if there is any RAN3 fix that operators can share the same PLMN. ZTE thinks that if it is not the case we need a solution.

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- Qualcomm thinks that we need to capture the issue. ZTE explains that the interoperability explains the issue.

=> The CR is revised in R2-1818607

R2-1818607 CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation ZTE Corporation, Sanechips CR Rel-14 36.331 14.8.0 3672 1 F TEI14 R2-1815554 [CBF]

R2-1816619 CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3673 2 F TEI15, LTE_5GCN_connect-Core R2-1815632

=> The CR is revised in R2-1818954

R2-1818954 CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3673 2 F TEI15, LTE_5GCN_connect-Core R2-1815632 [CBF]

R2-1818117 CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0 CMCC CR Rel-14 36.321 14.8.0 1377 2 F LTE_VoLTE_ViLTE_enh R2-1815634

=> The CR is agreed

R2-1818118 CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0 CMCC CR Rel-15 36.321 15.3.0 1400 - F LTE_VoLTE_ViLTE_enh

=> Update category to A

=> the CR is agreed in R2-1818955 with the change above

8.4.2 Other

R2-1817184 Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14 KDDI, China Mobile, NTT Docomo, Vodafone, Intel, China Telecom, Verizon Wireless CR Rel-15 36.306 15.2.0 1661 - A LTE_CA_enh_b5C-Core, TEI14

=> Update cover page to indicate TEI14

=> The CR is agreed in R2-1818595

R2-1817185 Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14 KDDI, China Mobile, NTT Docomo, Vodafone, Intel, China Telecom, Verizon Wireless CR Rel-14 36.306 14.8.0 1662 - F LTE_CA_enh_b5C-Core, TEI14

- Huawei has a little bit of a concern with the principle of going back to Rel-14 to mandate a feature and the limit should be Rel-14.

=> The CR is agreed

=> The CR has to be flagged in plenary report

R2-1816438 Clarification for additional SRS symbols Qualcomm Incorporated CR Rel-14 36.331 14.8.0 3696 - F LTE_SRS_switch-Core, LTE_feMTC-Core

- Intel asks if the RAN1 clarifications are sufficient. Qualcomm thinks we need to clarify in RAN2. Intel points out that there are a few other conditions.
- Nokia agrees with the intention but maybe we can consider other ways of doing it and maybe we can combine the field descriptions.
- Huawei thinks that we can leave it up to the UE implementation. Ericsson doesn't agree and thinks the CR is needed

=> We will clarify this in the RAN2 spec.

=> The CR is agreed

=> The CR is revised in R2-1818950

R2-1818950 Clarification for additional SRS symbols Qualcomm Incorporated CR Rel-14 36.331 14.8.0 3696 1 F LTE_SRS_switch-Core, LTE_feMTC-Core

=> Withdrawn

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R2-1816439 Clarification for additional SRS symbols Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3697 - A LTE_SRS_switch-Core, LTE_feMTC-Core
=> The CR is agreed

=> The CR is revised in R2-1818953

R2-1818953 Clarification for additional SRS symbols Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3697 1 A LTE_SRS_switch-Core, LTE_feMTC-Core
=> Withdrawn

R2-1817057 CR to the ambiguity on CellIdentity in AdditionalReestabInfo ZTE, Sanechips CR Rel-14 36.331 14.8.0 3732 - F TEI14
- Nokia thinks that we can simplify and not include the last sentence
=> The CR is postponed

R2-1817058 CR to the ambiguity on CellIdentity in AdditionalReestabInfo ZTE, Sanechips CR Rel-15 36.331 15.3.0 3733 - A TEI14
=> The CR is postponed

R2-1817120 Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14 KDDI Corporation CR Rel-15 36.331 15.3.0 3737 - F LTE_CA_enh_b5C-Core, TEI15 Withdrawn

R2-1817121 Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14 KDDI Corporation CR Rel-14 36.331 14.8.0 3738 - A LTE_CA_enh_b5C-Core, TEI15 Withdrawn

R2-1818275 Corrections on UE assistance information for Inter node RRC information transfer Huawei, HiSilicon CR Rel-14 36.331 14.8.0 3797 - F TEI
Understanding 1:
Only powerPrefIndication is transferred to the target eNB.
Understanding 2:
All elements in the UEAssistanceInformation need to be transferred to the target eNB, i.e., powerPrefIndication-r11, bw-Preference-r14, sps-AssistanceInformation-r14, rlm-Report-r14 and overheatingAssistance-r14 need to be transferd to the targer eNB for Rel-14;
- Ericsson has the second understanding but would prefer to not change the name of the IE as it has implementation impacts
=> RAN 2 agrees that Understanding 2 is the correct one: All elements in the UEAssistanceInformation need to be transferred to the target eNB, i.e., powerPrefIndication-r11, bw-Preference-r14, sps-AssistanceInformation-r14, rlm-Report-r14 and overheatingAssistance-r14 need to be transferd to the targer eNB for Rel-14;
=> The CR is not pursued

R2-1818276 Corrections on UE assistance information for Inter node RRC information transfer Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3798 - A TEI
=> The CR is not treated

R2-1818497 Correction to data inactivity monitoring Google Inc. CR Rel-14 36.321 14.8.0 1402 - F TEI14
- Ericsson explains that for LTE the data inactivity timer can be provided for both SCG and MCG. Nokia thinks that the network can configure just one timer.
- Google asks if we can clarify in RRC that the network is expected to configure only one timer
- Ericsson asks if there is a problem if the timer expires for SCG before the MCG
- Qualcomm agrees with Google's CR and it doesn't make sense to have them separate.
=> The CR is not pursued

R2-1818498 Correction to data inactivity monitoring Google Inc. CR Rel-15 36.321 15.3.0 1403 - A TEI14
=> The CR is not pursued

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R2-1816903 Clarification on csi-RS-ConfigNZP-EMIMO configuration MediaTek Inc. CR Rel-14
36.331 14.8.0 3726 - F LTE_eFDMIMO-Core
=> The CR is agreed

R2-1816904 Clarification on csi-RS-ConfigNZP-EMIMO configuration MediaTek Inc. CR Rel-15
36.331 15.3.0 3727 - A LTE_eFDMIMO-Core
=> The CR is agreed

9 LTE Rel-15

9.1 Void

9.2 WI: Shortened TTI and processing time for LTE

(LTE_STTIandPT-core; leading WG: RAN1; REL-15; started: June 16; closed: Sep. 18; WID: RP-171468)
Documents in this agenda item will be handled in a break out session

9.2.1 Agreed in principle CRs

R2-1816269 CR on 36331 Correction for sTTI LG Electronics Mobile Research CR Rel-15 36.331
15.3.0 3666 2 F LTE_sTTIandPT-Core R2-1815626
=> The CR is agreed

R2-1817426 SPS for TDD sTTI Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3660 2 F
LTE_sTTIandPT-Core R2-1815621
=> The CR is agreed

R2-1817427 skipUplinkTxSPS for short TTI option 1 Huawei, HiSilicon, Ericsson CR Rel-15
36.331 15.3.0 3661 3 F LTE_sTTIandPT-Core R2-1815655
=> The CR is agreed

R2-1817428 correction on power control Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3663
2 F LTE_sTTIandPT-Core R2-1815623
=> The CR is agreed

R2-1818181 Various sTTI corrections Intel Corporation CR Rel-15 36.331 15.3.0 3643 2
F LTE_sTTIandPT R2-1815624
=> The CR is agreed

R2-1818182 Various sTTI corrections Intel Corporation CR Rel-15 36.306 15.2.0 1659 2
F LTE_sTTIandPT R2-1815625
=> The CR is agreed

9.2.2 Other

R2-1817434 Clarification for cqi-ReportPeriodic Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3755
- F LTE_sTTIandPT-Core
=> The CR is agreed

R2-1817491 Correction on HARQ process ID for synchronous HARQ operation Nokia, Nokia Shanghai Bell
CR Rel-15 36.321 15.3.0 1392 - F LTE_sTTIandPT-Core
- Ericsson is fine with the FDD but wonders if we can re-use the SPS calculation formula for TDD. Nokia intention is to use only the UL frames and performance wise this would be better.

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- Intel asks why sTTI is not included and just short processing time. Nokia explains that this was the intention from RAN1. Qualcomm is not sure whether this was the agreement in RAN1.
- Nokia explains that today we do not specific the HARQ ID, but RAN1 agreed that we need to do it.

=> The CR is revised in R2-1818611

R2-1818611 Correction on HARQ process ID for synchronous HARQ operation Nokia, Nokia Shanghai Bell
CR Rel-15 36.321 15.3.0 1392 1 F LTE_sTTIandPT-Core
=> The CR is agreed

R2-1817407 Correction of SPSConfigDL-STTI Ericsson CR Rel-15 36.331 15.3.0 3750 -
F LTE_sTTIandPT
=> the CR is agreed

9.3 Void

9.4 Void

9.5 Further video enhancements for LTE

(LTE_ViLTE_enh2-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181746)
Documents in this agenda item will be handled in a break out session

9.6 QoE Measurement Collection for streaming services in E-UTRAN

(LTE_QMC_Streaming; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep 18: WID: RP-181640)
Documents in this agenda item will be handled in a break out session

9.6.1 In principle agreed CRs

R2-1818255 Correction on SRB4 for QoE measurement collection Huawei, HiSilicon, Intel Corporation
CR Rel-15 36.331 15.3.0 3652 1 F LTE_QMC_Streaming-Core R2-1815197
=> Agreed

9.6.2 Other

9.7 LTE connectivity to 5G-CN

(LTE_5GCN_connect-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181680)
Documents in this agenda item will be handled in a break out session

9.7.0 In principle agreed CRs

R2-1816456 Correction for E-UTRA connected to 5GC Stage-2 OPPO CR Rel-15 36.300 15.3.0 1202 - F LTE_5GCN_connect-Core

R2-1816457 Correction for E-UTRA connected to 5GC Stage-3 OPPO CR Rel-15 36.331 15.3.0 3698 - F LTE_5GCN_connect

R2-1816529 Clarification to no barring configuration for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3703 - F LTE_5GCN_connect-Core

R2-1816730 TS36.331 CR on Open issues on E-UTRA connected to 5GC for INACTIVE Intel Corporation CR Rel-15 36.331 15.3.0 3588 2 F LTE_5GCN_connect-Core R2-1815789

R2-1816731 Open issues on E-UTRA connected to 5GC for UAC Intel Corporation CR Rel-15 36.331 15.3.0 3587 1 F LTE_5GCN_connect-Core R2-1813976

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R2-1816900 Clarification on RRC state transition Google Inc. CR Rel-15 36.331 15.3.0 3551 2 F LTE_5GCN_connect-Core R2-1815971

R2-1816901 Correction on system information blocks acquisition Google Inc. CR Rel-15 36.331 15.3.0 3614 2 F LTE_5GCN_connect-Core R2-1815949

R2-1818074 Corrections to TS 36.304 for E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 36.304 15.1.0 0744 4 F LTE_5GCN_connect-Core R2-1815972

R2-1818075 Corrections for E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3653 2 F LTE_5GCN_connect-Core R2-1815973

R2-1818219 Correction to DRB release Google Inc., Ericsson, NTT DOCOMO, INC. CR Rel-15 36.331 15.3.0 3576 3 F NR_newRAT-Core R2-1816008

R2-1817831 Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-UTRA/5GC or E-UTRAN Qualcomm India Pvt Ltd CR Rel-15 36.331 15.3.0 3601 2 F LTE_5GCN_connect-Core R2-1815787

=> The above CRs are agreed.

Flagged:

R2-1818076 Corrections on handover for E-UTRA connected to 5GC Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1182 4 F LTE_5GCN_connect-Core R2-1815616
=> Postponed to next meeting

R2-1816527 Addition of RAN specific Access Category Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3702 - F LTE_5GCN_connect-Core
=> Withdraw

R2-1818538 Addition of RAN specific Access Category Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3553 - F LTE_5GCN_connect-Core
=> Agreed

R2-1816529 Clarification to no barring configuration for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3703 - F LTE_5GCN_connect-Core
=> Withdraw

R2-1818540 Clarification to no barring configuration for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 0188 - F LTE_5GCN_connect-Core
=> Agreed

R2-1816531 Correction to Access Category and barring config determination for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3704 - F LTE_5GCN_connect-Core
=> Withdraw

R2-1818541 Correction to Access Category and barring config determination for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3555 - F LTE_5GCN_connect-Core
=> Agreed

R2-1816729 Miscellaneous corrections on E-UTRA connected to 5GCN Intel Corporation CR Rel-15 36.331 15.3.0 3586 1 F LTE_5GCN_connect-Core R2-1813974
=> Revised in R2-1818693 (Offline#222, Intel) refers to 5.3.3.16 and also change the title.

R2-1818693 Miscellaneous corrections on E-UTRA connected to 5GCN Intel Corporation CR Rel-15 36.331 15.3.0 3586 2 F LTE_5GCN_connect-Core
=> Agreed

✉ **[104#22][LTE] Stage 2 Corrections on handover for E-UTRA connected to 5GC (Huawei)**

- Based on R2-1818076

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- check on the handover cases related to 5GC
  Intended outcome: Agreed CR
  Deadline: Monday 2018-11-26

9.7.1 Organisational

Including incoming LSs
Including output of email discussion [103bis#43][LTE/eLTE] Capture NR agreements (Intel)

R2-1816241 LS on Core Network Overload Control with 'option 5 enabled eNB (S2-1811545; contact: Vodafone) SA2 LS in Rel-15 5GS_Ph1 To:RAN2 Cc:CT1, RAN3
=> Noted

R2-1816753 [103bis#43][LTE/eLTE] Capture NR agreements (Intel) Intel Corporation discussion Rel-15 LTE_5GCN_connect-Core revised to R2-1818559

R2-1818559 [103bis#43][LTE/eLTE] Capture NR agreements (Intel) Intel Corporation discussion Rel-15 LTE_5GCN_connect-Core
=> Agreed

R2-1816727 TS36.331 CR on [103bis#43][LTE/eLTE] Capture NR agreements Intel Corporation CR Rel-15 36.331 15.3.0 3713 - F LTE_5GCN_connect-Core
=> Withdraw

R2-1816728 TS36.304 CR on [103bis#43][LTE/eLTE] Capture NR agreements Intel Corporation CR Rel-15 36.304 15.1.0 0758 - F LTE_5GCN_connect-Core
=> Agreed

9.7.2 Aspects independent from NR/5GC

R2-1816459 Discussion on Handling CN Overload Issue for eLTE OPPO discussion Rel-15
=> Noted

R2-1817310 CN differentiation in MSG3 Ericsson discussion Rel-15 LTE_5GCN_connect-Core
=> Noted

Agreements:
1 Use the critical extension field of MSG3 to support CN differentiation for the RRC connection request message.
Note: the Agreement 1 will be reported in the main session to indicate current version cannot support this feature
2 Introduce a wait timer in the RRC connection release message to be able to reject UE for a specific AMF in case of AMF overload.

R2-1817806 Restore CN Overload Control capability with Option 5 enabled eNBVODAFONE Group Plc CR Rel-15 36.331 15.3.0 3777 - F LTE_5GCN_connect-Core

R2-1817311 Supporting MME and AMF overload control Ericsson CR Rel-15 36.331 15.3.0 3745 - F LTE_5GCN_connect-Core
CB on Friday: Offline discussion # 220 (R2-1818691, Ericsson)
=> Through offline discussion try to provide a CR for technical endorse.

R2-1817547 CR on Handling CN Overload in eLTE OPPO CR Rel-15 36.300 15.3.0 1204 - F LTE_5GCN_connect

R2-1817562 [Draft] Reply LS on Handling CN Overload in eLTEOPPO LS out Rel-15 To:SA2 Cc:CT1, RAN3

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R2-1818092 Discussion on RRC establishment cause for LTE-5GC Huawei, HiSilicon discussion Rel-15 LTE_5GCN_connect-Core
=> Noted

R2-1818093 Correction on RRC establishment cause for LTE-5GC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3789 - F LTE_5GCN_connect-Core
=> Agreed

R2-1817246 delayTolerantAccess is not used with E-UTRA/5GC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3742 - F LTE_5GCN_connect

R2-1818091 Correction on UERadioPagingInformation for LTE-5GC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3788 - F LTE_5GCN_connect-Core
=> Update the coversheet
=> Remove ng-eNB in field descriptions
=> Change to “Direction: eNB to/ from EPC /5GC”
=> Will be addressed in the rapporteur CR through email discussion

R2-1818094 Correction to full configuration for LTE-5GC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3790 - F LTE_5GCN_connect-Core
=> Covered by the agreed CR.

R2-1818095 Considerations on scheduling and overload issues for LTE-5GC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3791 - F LTE_5GCN_connect-Core

R2-1818096 Clarification on UE behavior after handover failure Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3792 - F LTE_5GCN_connect-Core
=> Postponed

R2-1818097 Clarification on Security Handling during RRC reestablishment due to N2 Handover Failure Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3793 - F LTE_5GCN_connect-Core
=> Not pursued

9.7.3 Inactive state

R2-1816440 Corrections on Qoffsettemp for eLTE in 36.304 LG Electronics Deutschland CR Rel-15 36.304 15.1.0 0752 1 F LTE_5GCN_connect-Core R2-1815462
=> Agreed

R2-1816441 Corrections on Qoffsettemp for LTE in 36.304 LG Electronics Deutschland CR Rel-14 36.304 14.7.0 0745 2 F LTE_5GCN_connect-Core R2-1815485
=> Not pursued

R2-1816849 Ignore NCC and IP check failure handling on reception of resume message ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3718 - F NR_newRAT-Core
=> Only the first change is agreed
=> Revised in R2-1818692 and is agreed with the change.

R2-1818337 Correction to RNA update Google Inc. CR Rel-15 36.331 15.3.0 3804 - F LTE_5GCN_connect-Core
=> Not pursued

9.7.4 Access control

9.7.5 Other

R2-1816437 Corrections to procedure upon Reception of the RRCConnectionSetup Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3695 - F LTE_5GCN_connect-Core
=> Agreed

R2-1818493 Corrections for RRCConnectionSetup SHARP Corporation CR Rel-15 36.331 15.3.0 3806 - F LTE_5GCN_connect-Core Late
=> Withdraw

✉ **[104#23][LTE/5GC] Capture the agreements from NR (Intel)**
Capture the agreements from NR which are applicable for eLTE

Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

9.8 Positioning Accuracy Enhancements for LTE

(LCS_LTE_acc_enh-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181298)
Documents in this agenda item will be handled in a break out session

9.8.0 Agreed in principle CRs

R2-1816880 Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107) ZTE Corporation CR
Rel-15 36.331 15.3.0 3607 2 F LCS_LTE_acc_enh-Core R2-1815741

Nokia ask if there are specific methods of interest for IoT cases. Ericsson understand that the CR is not about specific methods but fixing some accidental text that made it applicable to NB-IoT.
⇨ Agreed

R2-1817838 Alignment of IE/field names between LPP and RRC specifications Qualcomm Incorporated CR
Rel-15 36.355 15.1.0 0230 1 F LCS_LTE_acc_enh-Core R2-1814907

⇨ Agreed

R2-1818168 Capture use of motion information from motion sensors Nokia, Nokia Shanghai Bell CR
Rel-15 36.305 15.1.0 0079 - F LCS_LTE_acc_enh-Core Withdrawn
R2-1818499 Capture use of motion information from motion sensors Nokia, Nokia Shanghai Bell CR
Rel-15 36.305 15.1.0 0077 2 F LCS_LTE_acc_enh-Core R2-1815659

NextNav wonder if we should say “barometric pressure” instead of “UE barometric pressure” since there are also assistance data from the E-SMLC.
Qualcomm think the CR is correct as it is since it’s a section about UE functions. Nokia would also prefer to leave it as is.
⇨ Agreed

9.8.1 Organisational

Including incoming LSs, rapporteur inputs

9.8.2 GNSS positioning enhancements

9.8.3 Support for IMU positioning

R2-1817635 Introduction of motion sensors in 36.305 Ericsson, Sony CR Rel-15 36.305 15.1.0 0078
- B LCS_LTE_acc_enh-Core

Nokia note the changes to 8.2.2.3 overlap with R2-1818499. Qualcomm would prefer that we keep the agreed version; they think the first change is not correct and the second may be misleading, because sensors are not supported only in hybrid mode. The only reason OTDOA was mentioned specifically was the linking of the measurements, but it doesn’t mean that the motion sensors can only be used in this way.
Qualcomm also think we should not capture this much detail in the E-SMLC section about specific positioning methods.
ESA agree with Qualcomm that the first change is wrong; they would be OK with the other changes.
Nokia can accept either version of the table in 8.2.2.3 but have additional comments. They think the text about hybrid positioning is not needed, and the text under section 5.3.3 characterising the result as a relative position doesn’t include motion information.

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Ericsson think the stage 2 should be clear for a reader, and they understand that today the sensors can only be used with OTDOA. Qualcomm think this is wrong.
NextNav think only the changes to the table might be needed; for the first change there is enough detail in the text already there, and the rest are covered by the previously agreed CR. Also note there are some cover sheet issues.
Polaris think the change to the table limits the motion sensors to just displacement and we should keep it more generic as motion sensors can do more things than this. Qualcomm think what we have from the previous CR is aligned with the stage 3. Nokia agree the stage 3 only reports displacement.
Ericsson agree the LPP signalling is independent between methods but think the reporting is targeted to hybrid use cases.
ESA think we agreed not to support raw measurements and we should not reopen that topic; we only report the displacement.
Qualcomm think the additional sentence in the table is not needed; it is more detail than we need in stage 2 as compared with other methods.
Ericsson think we have less detail for sensors than for other methods (e.g. no separate section for this method) and a reader should be able to understand how the sensor method is used.
⇨ Noted

9.8.5 Broadcasting of assistance data

9.9 Enhancing CA Utilization

(LTE_euCA-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-180561)
Documents in this agenda item will be handled in a break out session

9.9.0 In principle agreed CRs

R2-1816590 Corrections to euCA Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3567 1 F LTE_euCA-Core R2-1813768
=> Agreed

R2-1816591 Corrections to euCA Nokia, Nokia Shanghai Bell CR Rel-15 36.321 15.3.0 1361 2 F LTE_euCA-Core R2-1815772
=> Agreed

R2-1817016 Corrections on the IDLE State Measurement vivo CR Rel-15 36.331 15.3.0 3731 - F LTE_euCA-Core
=> Withdraw

R2-1818554 Corrections on the IDLE State Measurement vivo CR Rel-15 36.331 15.3.0 3560 - F LTE_euCA-Core
=> Agreed

R2-1817425 Correction on triggering idle mode measurement Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3658 2 F LTE_euCA-Core R2-1815974
=> Agreed

9.9.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

9.9.2 Delay reduction for SCell set-up

R2-1816592 Clarification on s-Measure for IDLE mode measurements Nokia, Nokia Shanghai Bell discussion Rel-15 LTE_euCA-Core
=> Noted

R2-1816593 Clarification on s-Measure for IDLE mode measurements Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3708 - F LTE_euCA-Core
=> Change to "The fields *s-NonIntraSearch* in *SystemInformationBlockType3* do not affect the UE measurement procedure in IDLE mode"
=> With this change CR is agreed in R2-1818694

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R2-1817437 Correction on T331 description Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3758 - F LTE_euCA-Core
=> Agreed

R2-1817438 Correction on validityArea description Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3759 - F LTE_euCA-Core
=> Agreed

9.9.3 Signalling overhead reduction for configuration activation

9.9.4 Others

9.10 Enhancements on LTE-based V2X Services

(LTE_eV2X-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-171740)
Documents in this agenda item will be handled in a break out session

9.10.0 Agreed in principle CRs

R2-1816349 Correction for duplication based on Rel-14 TX profile OPPO CR Rel-15 36.300 15.3.0 1193 1 F LTE_eV2X-Core R2-1813573
=> Agreed.

R2-1816350 Correction on UE capability OPPO CR Rel-15 36.331 15.3.0 3548 2 F LTE_eV2X-Core R2-1815663
=> [Offline discussion#705]: Add nonCriticalExtension part into ASN.1 and merge the changes proposed in R2-1817615 (R2-1818713).
=> Agreed in R2-1818713

R2-1816351 Correction on UE capability OPPO CR Rel-15 36.306 15.2.0 1646 2 F LTE_eV2X-Core R2-1815664
=> [Offline discussion#705]: Merge the changes proposed in R2-1817614 (R2-1818720).
=> Agreed in R2-1818720

R2-1816352 Correction on PDCP for eV2X OPPO CR Rel-15 36.323 15.1.0 0249 2 F LTE_eV2X-Core R2-1815671
=> Change in 5.5.2 will be removed.
=> Agreed with the above change (R2-1818714).

R2-1816468 Correction on MCS for V2X sidelink communication in TS 36.302 Huawei, HiSilicon CR Rel-15 36.302 15.0.0 1196 2 F LTE_eV2X-Core R2-1815676
=> Agreed.

R2-1816469 Correction on V2X sidelink communication in TS 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1365 2 F LTE_eV2X-Core R2-1815673
=> “for each carrier” should be placed at the beginning of sentence in 5.14.2.2.1 and similar change needs to be done in TX side also.
=> Agreed with the above change (R2-1818715)

R2-1816470 Correction on V2X sidelink communication in TS 36.300 Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1199 2 F LTE_eV2X-Core R2-1815675
=> Agreed.

R2-1816471 Miscellaneous corrections in TS 36.331 on eV2X Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3584 2 F LTE_eV2X-Core R2-1815669

R2-1818530 Miscellaneous corrections in TS 36.331 on eV2X Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3584 3 F LTE_eV2X-Core
=> Cover page needs to be updated to indicate it was changed from the in-principle agreed CR and what was changed from that version.

=> Agreed with the above change (R2-1818716)

R2-1817772 Correction of UE capability for eV2X in TS 36.306 Qualcomm Incorporated CR Rel-15 36.306 15.2.0 1656 2 F LTE_eV2X-Core R2-1815667
=> Agreed.

R2-1817774 Removal of redefinition of MCS-PSSCH-Range-r15 Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3675 3 F LTE_eV2X-Core R2-1815689
=> Agreed.

R2-1818408 Flushing HARQ buffer for carrier reselection LG Electronics Inc. CR Rel-15 36.321 15.3.0 1355 3 F LTE_eV2X-Core R2-1815678
=> Agreed.

R2-1818481 eV2X clean-up except for UL and SL prioritization in TS 36 321 LG Electronics CR Rel-15 36.321 15.3.0 1357 4 F LTE_eV2X-Core R2-1815416
=> Cover page needs to be updated to explain actual reasons and summary of changes instead of just referring tdoc numbers that were merged.
=> [Offline discussion#702]: Revise the CR with the above change (R2-1818717)
=> Agreed in R2-1818717.

R2-1818482 UL and SL prioritization in TS 36 321_alt2 (transmit z) LG Electronics CR Rel-15 36.321 15.3.0 1383 3 F LTE_eV2X-Core R2-1815670
=> Cover page needs to be updated to explain actual reasons and summary of changes instead of just referring tdoc numbers that were merged. Revise the title also.
=> [Offline discussion#703]: Revise the CR with the above change (R2-1818718)
=> Agreed in R2-1818718.

R2-1818368 CR on supporting of the ROHC for PDCP duplication LG Electronics Inc. CR Rel-15 36.323 15.1.0 0243 2 F LTE_eV2X-Core R2-1815156
=> [OPPO]: How Rx UE can distinguish whether PDCP duplication is configured or not?
[Samsung]: The question is not specific to this issue and Samsung's CR is additional thing on top of this CR.
=> Agreed.

9.10.1 General

Including incoming LSs

9.10.2 Control plane

R2-1816474 CR on carrier frequency indication in SidelinkUEInformation (Opt 1) Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3699 - F LTE_eV2X-Core
R2-1816475 CR on carrier frequency indication in SidelinkUEInformation (Opt 2) Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3700 - F LTE_eV2X-Core

=> We will go towards option 2.
=> [Offline discussion#704]: Revise the CR with the better wording (R2-1818719).
=> Agreed in R2-1818719.

R2-1816476 Correction on sidelink packet duplication configuration in TS 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3701 - F LTE_eV2X-Core
[OPPO, Qualcomm]: It was already clarified in TS36.323, so it's not essential.
=> Noted.

R2-1817614 Mode-3 sensing and reporting capability for eV2X Intel Corporation CR Rel-15 36.306 15.2.0 1667 - F LTE_eV2X-Core
=> Agreed and will be merged by R2-1818720.

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R2-1817615 Mode-3 sensing and reporting capability for eV2X Intel Corporation CR Rel-15 36.331 15.3.0 3770 - F LTE_eV2X-Core
=> Agreed and will be merged by R2-1818713.

R2-1817946 Clarification to Sensing Report Ericsson CR Rel-15 36.331 15.3.0 3783 - F LTE_eV2X-Core
=> [Offline discussion#706]: Check and discuss on the need of this change.
=> Noted.

R2-1818293 Discussion on Cell-specific SLSS_TxDisabled LG Electronics, ITL, Ericsson discussion Rel-15 LTE_eV2X-Core
[Huawei]: RAN1 agreement is clear, i.e. UE specific. [Huawei, Qualcomm, ZTE, OPPO, ITRI, IDT]: If we allow cell specific SLSS_TxDisabled, it may bring another problem so we should keep it as UE specific parameter.
=> Not pursued.

R2-1818319 Configuration for cell-specific SLSS_TxDisabled LG Electronics Inc CR Rel-15 36.331 15.3.0 3671 1 F LTE_eV2X-Core R2-1815511

R2-1818330 Clarification for SLSS_TxDisabled LG Electronics Inc. CR Rel-15 36.331 15.3.0 3665 1 F LTE_eV2X-Core R2-1815328
=> [Offline discussion#707]: Discuss further required changes from R2-1818330 (R2-1818721)
=> There should be "," before new extension.
=> Remove "SL-V2X-ConfigDedicated in" from 5.10.7.2
=> Remove revision marks from the cover-page.
=> No new line in the last change in slss-TxDisabled and add full name of SIB21 and SIB26.
=> Agreed the above changes in R2-1818734.

9.10.3 User plane

R2-1816472 Discussion on inappropriate resource reselection behavior in PC5 CA Huawei, HiSilicon discussion Rel-15 LTE_eV2X-Core

R2-1816473 Correction on inappropriate resource reselection behavior in TS 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1388 - F LTE_eV2X-Core

R2-1816986 CR on issues in resource reselection behaviour in TS 36.321 ZTE, Sanechips CR Rel-15 36.321 15.3.0 1390 - C LTE_eV2X-Core

R2-1816991 Discussion on remaining issue in carrier selection ZTE, Sanechips discussion
[OPPO, Ericsson]: If one SL process triggers Tx carreir reselection, does it impact on other SL processes in other carriers? [Huawei]: In MAC, it is specified as level of allowed logical channels for that carrier, which means it may impact on other SL processes in other carriers.
=> [Offline discussion#708]: Discuss what's common understanding whether one SL process triggering Tx carrier reselection may change the carrier of other SL processes in other carriers. Also discuss which option to go between Huawei proposal and ZTE proposal (ZTE, R2-1818722)
=> Noted.

R2-1817941 Clarification to Mode-3 Procedures Ericsson CR Rel-15 36.321 15.3.0 1395 - F LTE_eV2X-Core
[Huawei]: Note is not related with the proposed UE behavior, it is related with synchronization.
=> Rewording is needed on NOTE3 for clear clarification on the intention.
=> [Offline discussion#709]: Revise the CR with the above change (R2-1818723)
=> Agreed in R2-1818723.

R2-1817942 Clarification to Sidelink PDCP Duplication Ericsson CR Rel-15 36.321 15.3.0 1396 - F LTE_eV2X-Core
=> [Offline discussion#710]: Check companies' concern and revise the CR (R2-1818724)
=> Update the last change into "For a given sidelink logical channel, it is up to UE implementation which carrier set to select among the carrier sets configured in allowedCarrierFreqList for the corresponding destination."

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=> Agreed with the above change in R2-1818735.

R2-1817943 Clarification to TX Carrier (re)-Selection for V2X Sidelink Communication Ericsson CR Rel-15 36.321 15.3.0 1397 - F LTE_eV2X-Core
=> [Offline discussion#711]: Discuss to understand the need of NOTE2 and whether it actually collides with procedure text in 5.14.1.5 (R2-1818922).
=> Put “select one or more carrier(s) and associated pool(s) of resources among the candidate carriers with increasing order of CBR from the lowest CBR;” into separate bullet.
=> RAN affect should not be ticked.
=> Agreed with the above changes in R2-1818736.

R2-1817944 MAC Impact of UE Capability Limitation in TX Carrier Selection – Option 1 Ericsson CR Rel-15 36.321 15.3.0 1398 - F LTE_eV2X-Core

R2-1817945 MAC Impact of UE Capability Limitation in TX Carrier Selection – Option 2 Ericsson CR Rel-15 36.321 15.3.0 1399 - F LTE_eV2X-Core

R2-1818312 Clarification for limited Tx capability LG Electronics Inc. CR Rel-15 36.321 15.3.0 1352 4 F LTE_eV2X-Core R2-1815514
=> [Offline discussion#712]: Discuss the corresponding CR once RAN1 makes decision on this issue (LG, R2-1818725).
[Huawei]: There is no RAN1 decision on this issue yet. [Ericsson]: RAN1 will discuss this week.
=> Revisit the associated MAC CR next meeting once RAN1 makes a decision.

R2-1818189 Correction to packet delivery and maintenance of state variables for sidelink transmission and reception ASUSTeK CR Rel-15 36.323 15.1.0 0264 - F LTE_eV2X-Core
[OPPO, LG]: Agree with the first change (1) and last change (2d). Seems other proposals are optimization (e.g. without this optimization, just to delay some time).
Remove other changes besides the first change and last change
[Offline discussion#713]: Revise the CR with the above change (R2-1818726)
Agreed in R2-1818726.

R2-1818409 TX carrier reselection when cbr-pssch-TxConfigList is not configured LG Electronics Inc. CR Rel-15 36.321 15.3.0 1401 - F LTE_eV2X-Core
[OPPO, Qualcomm, Ericsson]: It is not typical scenario so we can leave it to UE implementation. Seems not essential CR.
=> Noted.

R2-1818464 Header Decompression for SLRB Samsung CR Rel-15 36.323 15.1.0 0265 - F LTE_eV2X-Core
[LG]: It seems header decompression is done before reordering. [Samsung]: It just said header decompression is done before delivery. [Ericsson]: Is the second change specific to SL only?
[Samsung] Yes.
=> Agreed.

9.11 High capacity stationary wireless and 1024 QAM

(LTE_1024QAM_DL-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Mar. 18: WID: RP-181670)
Documents in this agenda item will be handled in a break out session

9.11.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

R2-1816208 LS on Restriction of 1024QAM CSI reporting (R1-1809609; contact: Nokia) RAN1 LS in Rel-15 LTE_1024QAM_DL-Core, LTE_sTTIandPT-Core To:RAN2
=> Already covered in 331.
=> Noted

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9.11.2 UE capability and potential new categories

9.11.3 Corresponding higher-layer procedures and signalling

9.12 Enhancements to LTE operation in unlicensed spectrum

(LTE_unlic-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 18: WID: RP-180402)
Documents in this agenda item will be handled in a break out session

9.12.0 In principle agreed CRs

R2-1816923 Correction on FeLAA in TS 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1389 - F LTE_unlic-Core
=> Agreed

R2-1816924 Correction on FeLAA in TS 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3729 - F LTE_unlic-Core
=> Agreed

9.12.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

9.12.2 Autonomous uplink access on Frame structure type 3

9.12.3 Other operation on Frame structure type 3

9.12.4 Others

9.13 Further NB-IoT enhancements

(NB_IOTenh2-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-182114)
Documents in this agenda item will be handled in a break out session
Some sub-items in 9.13 and 9.14 may be treated jointly.

9.13.0 In principle agreed CRs

R2-1816380 Corrections to random access power control for TDD in 36.321 Huawei, HiSilicon, BlackBerry UK Ltd CR Rel-15 36.321 15.3.0 1362 2 F NB_IOTenh2-Core R2-1815715

⇒ **agreed**

R2-1816381 Corrections to random access power control for TDD in 36.331 Huawei, HiSilicon, BlackBerry UK Ltd CR Rel-15 36.331 15.3.0 3580 2 F NB_IOTenh2-Core R2-1815716

⇒ **agreed**

R2-1816382 Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-SCS-TDD-r15 and removing twoHARQ-ProcessesTDD Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1648 2 F NB_IOTenh2-Core R2-1815713

⇒ **agreed**

R2-1816383 Clarification of features not supported in NB-IoT Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1195 1 F LTE_5GCN_connect-Core, NR_newRAT-Core, LTE_Aerial-Core R2-1813898
- WI codes updated

⇒ **Agreeable from NB-IoT point of view**

⇒ **[CB Friday] agree in main session**

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R2-1816862 Correction to additional SIB1 in eFeNB-IoT ZTE Corporation, BlackBerry UK Ltd CR Rel-15 36.331 15.3.0 3619 2 F NB_IOTenh2-Core R2-1815714

⇒ **Change "valid downlink subframe" to "NB-IoT DL subframe" in field description.**

⇒ **Change other specs affected to "TS 36.213 CRxxxx"**

⇒ **Update interoperability**

⇒ **With the above changes the CR is agreed in R2-1818628**

R2-1816864 Small correction to paging with wake up signal ZTE Corporation, Ericsson, Qualcomm Incorporated, Huawei, HiSilicon CR Rel-15 36.304 15.1.0 0741 3 F LTE_eMTC4-Core, NB_IOTenh2-Core R2-1815717

⇒ **agreed**

R2-1816542 Update description of consecutive precoders used for NSSS Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3585 1 F NB_IOTenh2-Core R2-1813956

⇒ **agreed**

9.13.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

R2-1816240 Reply LS on Issues with AS Release Assistance Indicator (S2-1811471; contact: Qualcomm) SA2

⇒ **noted**

R2-1816384 Clarification of features not supported in NB-IoT Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3691 - F LTE_5GCN_connect-Core, NR_newRAT-Core, LTE_Aerial-Core

⇒ **change summary of change 2 to say "SRB4 is not supported"**

⇒ **Agreeable from NB-IoT point of view with the above change**

⇒ **revised in R2-1818629**

⇒ **[CB Friday] agree in main session**

R2-1818629 Clarification of features not supported in NB-IoT Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3691 1 F LTE_5GCN_connect-Core, NR_newRAT-Core, LTE_Aerial-Core R2-1816384

R2-1816385 Miscellaneous corrections and cleanup for NB-IoT Rel-15 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3581 1 F NB_IOTenh2-Core R2-1813901

- Intel wonders why specifically schedulingRequestConfig is released for change 5. Huawei clarify that currently there's no way to release this
- Ericsson wonders whether for EDT we assume it applies for eMTC TDD or not. Huawei think it is excluded for NB-IoT because it is not in the WI and haven't defined NPRACH resources for EDT in TDD, but should be included for eMTC. Qualcomm agrees.

⇒ **Remove change 6**

⇒ **Remove "To TDD" from reason for change box**

⇒ **Revised in R2-1818630**

Offline discussion #301 check change 3, 5, 7, 8 are OK and backwards compatible.

R2-1818630 Miscellaneous corrections and cleanup for NB-IoT Rel-15 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3581 1 F NB_IOTenh2-Core R2-1816385

⇒ **agreed**

9.13.2 Early Data Transmission

Early Data transmission for NB-IoT is treated jointly with MTC under AI 9.14.2. Do not use this AI for any item that can be discussed jointly.

9.13.3 System Acquisition Enhancements

System acquisition Enhancements for NB-IoT is treated jointly with MTC under AI 9.14.3. Do not use this AI for any item that can be discussed jointly.

9.13.4 Relaxed Monitoring for cell reselection

Relaxed monitoring for cell reselection for MTC and NB-IoT is treated jointly under this AI.

9.13.5 Semi-Persistent Scheduling

9.13.6 RRC Connection Release Enhancements

9.13.7 UE differentiation

9.13.8 TDD

R2-1816386 Introduction of TDD UL/DL configuration for NB-IoT in 36.355 Huawei, HiSilicon CR Rel-15 36.355 15.1.0 0228 1 F NB_IOTenh2-Core R2-1813902

- Huawei indicate that this CR depends on another CR in LPP, which was earlier agreed (36.355 CR 0213 on cover page)
- ZTE think the LTE range is different to NB-IoT range. Huawei agree that config 0 and 6 are not for NB-IoT, but the positioning server gets this from eNB, and therefore these values will not be configured.

⇒ **Add reference to TDD-Config-v1520 on the cover page**

⇒ **Revised in R2-1818631**

Offline discussion #302 check that this is in line with the LPP CR.

R2-1818631 Introduction of TDD UL/DL configuration for NB-IoT in 36.355 Huawei, HiSilicon, BlackBerry UK Ltd CR Rel-15 36.355 15.1.0 0228 2 F NB_IOTenh2-Core R2-1816386

⇒ **agreed**

R2-1817559 Clarification on non-anchor carrier offset for TDD NB-IoT standalone mode Ericsson discussion Rel-15 TEI15, NB_IOTenh2-Core

- Huawei think before changing anything in RAN2 we need an indication from RAN4 about what to do.

⇒ **Wait for RAN4**

⇒ **noted**

9.13.9 Wake Up Signal

Wake Up Signal etc for MTC and NB-IoT is treated jointly under this Agenda Item.

R2-1816387 Correction to gap determination for the wake-up signal Huawei, HiSilicon CR Rel-15 36.304 15.1.0 0757 - F NB_IOTenh2-Core, LTE_eMTC4-Core

- Intel think that the default value is 40ms so should be clear UE uses that value. Qualcomm and Mediatek think that the table entry for 40ms could be updated instead to cover the case of not indicated.

⇒ **Update the table entry for 40ms to "40ms or not reported" and remove the added row**

⇒ **Update the interoperability to say there is no interoperability issue**

⇒ **With the above changes the CR is agreed in R2-1818632**

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9.13.10 Enhancements to standalone Operation

9.13.11 PHR enhancements

9.13.12 Support for physical layer SR

9.13.13 NPRACH range

R2-1816388 Correction to start of RAR window for NPRACH fmt2 in 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1387 - F NB_IOTenh2-Core
- ZTE, Ericsson are OK. Ericsson clarify that for TDD there is no gap.
- Qualcomm wonder if there is a problem to fix. Huawei think currently the spec is not correct because format 2 is not covered, and rather than adding this to the MAC specification the RAN1 spec can just be referred to.

Offline discussion #303 – check whether to add the missing case or keep the CR as it is.

⇒ **Revised in R2-1818634**

R2-1818634 Correction to start of RAR window for NPRACH fmt2 in 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1387 1 F NB_IOTenh2-Core R2-1816388
- Sequans wonder if the table could be a note instead and then use a reference to RAN1 specification. Qualcomm don't think we need to refer to RAN1, if we just have the table it is easier to understand. Huawei don't think a note helps because we would in this case also have to update the note.

⇒ **Add table number in text and table title "5.1.4-X"**

⇒ **Fix punctuation in text**

⇒ **Qualcomm to co-source**

⇒ **With the above changes the CR is agreed in R2-1818635**

9.13.14 Other

E.g. UE Feedback, Measurement Accuracy Enhancements, NPRACH reliability, small cell support, Support for RLC-UM, other.

Access baring enhancement for NB-IoT is treated jointly with MTC under AI 9.14.5. Do not use this AI for any item that can be discussed jointly

R2-1816542 Update description of consecutive precoders used for NSSS Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3585 1 F NB_IOTenh2-Core R2-1813956

9.14 Even further enhanced MTC for LTE

(LTE_eMTC4-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Dec. 18: WID: RP-172811)

Time budget: 0 TU

This AI is for corrections to a WI that is complete from RAN2 point of view.

Documents in this agenda item will be handled in a break out session

9.14.0 In principle agreed CRs

R2-1816389 Corrections to EDT in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3582 3 F NB_IOTenh2-Core, LTE_eMTC4-Core R2-1815748

R2-1816390 Removal of duplicate rel-15 NB-IoT/eMTC capabilities and introducing TDD-FDD differentiation for WUS capabilities in eMTC Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1625 2 F LTE_eMTC4-Core R2-1813913

R2-1816391 Msg3 buffer handling for EDT in 36.321 Huawei, HiSilicon, Nokia, Nokia Shanghai Bell CR Rel-15 36.321 15.3.0 1384 2 F NB_IOTenh2-Core, LTE_eMTC4-Core R2-1815750

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R2-1816915 Correction on the measurement gaps for dense PRS Huawei, HiSilicon, Qualcomm Incorporated, Ericsson CR Rel-15 36.331 15.3.0 3680 1 F LTE_eMTC4-Core R2-1815742

R2-1816916 Missing UE capability introduction for efeMTC Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1632 3 F LTE_eMTC4-Core R2-1815743

R2-1816917 Minor corrections to services provided by physical layer Huawei, HiSilicon CR Rel-15 36.302 15.0.0 1195 2 F LTE_eMTC4-Core R2-1814904

R2-1817041 MPDCCH monitoring for receiving HARQ ACK feedback Nokia, Nokia Shanghai Bell CR Rel-15 36.321 15.3.0 1359 4 F LTE_eMTC4-Core R2-1815752

R2-1817894 Clarification on SI acquisition time enhancements in Rel-15 Ericsson CR Rel-15 36.331 15.3.0 3642 2 F LTE_eMTC4-Core R2-1815739

⇒ **The CRs above are agreed**

.

R2-1816392 Corrections to EDT in 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1363 2 F NB_IOTenh2-Core, LTE_eMTC4-Core R2-1815737 Revised

⇒ **The CR is revised in R2-1816411.**

R2-1816621 Corrections and clarifications for MO EDT Ericsson CR Rel-15 36.331 15.3.0 3605 3 F NB_IOTenh2-Core, LTE_eMTC4-Core R2-1815749

⇒ **Change the formatting for NOTE**

⇒ **The CR is revised with the above change and agreed in R2-1818652 unseen.**

9.14.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

R2-1816206 LS on successful completion of early data transmission when eNodeB decided not to have RRC connection (C1-186968; contact: Ericsson) CT1 LS in Rel-15 To:RAN2

- Huawei assumes that there is no problem for the UP-EDT solution considering that it is not mentioned in the LS.
- Ericsson thinks the problem also applies to the UP-EDT solution. LG agrees.
- Huawei wonders why it is not mentioned in the LS then.

⇒ **Noted.**

R2-1818845 Reply LS on UP-EDT procedure when resuming in a new eNB (R3-187034; contact: Intel) RAN3 LS in Rel-15 To:RAN2

⇒ **RAN3 has confirmed the CR which was sent from RAN2 in the previous meeting.**

[CB#402] To provide the CR in R2-1818654 to be agreed in RAN2 [Intel]

R2-1818654 EDT when resuming in a new eNB Intel CR Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core

⇒ **The CR is agreed.**

R2-1819012 LS to RAN2/3 on UP Integrity Protection for Small Data in Early Data Transfer (S3-183652; contact: Huawei) LS in Rel-15 To:RAN2

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- Ericsson thinks that the CR is not entirely correct since only a single PDCP PDU is used in the calculation of the hash function, however multiple PDCP PDUs should also be considered.
- Huawei thinks that we can send a reply from this meeting indicating that it is not backwards compatible although there is no impact in ASN.1.
- Intel thinks the CR needs to be checked which can not be done in this meeting.

R2-1818664 Draft reply LS on UP Integrity Protection for Small Data in Early Data Transfer LS Out Rel-15 To:SA3, Cc:RAN3

⇒ **Remove "RAN2 will proceed if SA3 agrees the CR."**

⇒ **Replace "RAN2 did not have time to analyse the detail of this proposal" with "RAN2 did not have time to analyse the detail of this proposal and investigate the impacts in RAN2 specifications."**

✓ **The LS is approved in R2-1818666.**

9.14.2 Early data transmission

Early Data transmission for NB-IoT and MTC is treated jointly under this AI.

R2-1816393 Additional Corrections to EDT in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3692 - F NB_IOTenh2-Core, LTE_eMTC4-Core

- Ericsson agrees with the first change, but indicates that one change is missing.
- Intel thinks the change in 5.3.8.3 is not needed.

[CB#403] To check whether changes 1 and/or 2 are needed and to capture the outcome of the discussion regarding change 3 based on the related Tdoc. [Huawei]

R2-1818663 Additional corrections to EDT in 36.331 Huawei CR Rel-15

⇒ **Remove the last "the" in "the nextHopChainingCount, if present. Otherwise discard any stored nextHopChainingCount that does not correspond to stored key the KRRCint;"**

⇒ **Replace "NOTE: It is up to UE implementation whether/how to avoid data loss." with "NOTE: It is up to UE implementation to avoid data loss due to EDT fallback."**

⇒ **Add Ericsson and LG as co-signing company**

⇒ **Update the date on the cover page**

⇒ **The CR is agreed in R2-1818667 unseen.**

R2-1816394 Data loss handling in UP-EDT Huawei, HiSilicon discussion Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core

Proposal 1: For UP-EDT, data loss issue needs to be addressed for the fallback cases due to legacy UL grant received in RAR and coverage level change.

Proposal 2: For UP-EDT, if RLC UM is used, nothing needs to be specified for data loss issue.

Proposal 3: If RLC-AM is used for UP-EDT, the RRC layer triggers re-establishment of AM RLC entity and PDCP data recovery procedure after fallback happens.

- LG prefers option 1.
- Huawei thinks this should not be left for implementation.
- Ericsson agrees with proposal 3, but has concerns with proposal 2 considering that the data may be lost even without an attempt to transmit.

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- Intel also agrees with proposal 3, but thinks it may not be needed. If it is up to UE how to prepare the RRC messages considering the fallback cases, it should also be possible to leave this up to the UE.
- Huawei thinks it would be contradictory in case it is left for UE implementation since in one step UE is supposed to keep the data and in another it is supposed to delete it.
- LG thinks PDCP should not be involved
- Nokia agrees with Intel.
- Huawei has concerns that the spec would be broken if this is left for UE implementation.
- QC thinks proposal 3 is reasonable, but not sure if it is necessary.

⇒ **For UP-EDT, if RLC-UM is used it is up to UE implementation whether/how to avoid data loss due to updating of Msg3 PDU in Msg3 buffer, i.e. fallback to legacy.**

⇒ **For UP-EDT, if RLC-AM is used, RLC retransmission mechanism is used, assuming that it would work, to avoid data loss due to updating of Msg3 PDU in Msg3 buffer, i.e. fallback to legacy.**

[CB#404] To check how the agreements above can be captured in the specifications and whether the changes are acceptable. [LG]

- LG reports that first changes in RRC spec is considered, but since it was not preferable PDCP was also discussed. Since this was also not prereferable, it is agreed that a note is introduced in 36.331.
- Huawei is concerned that this leads to UE behaviour that is not inline with the spec.
- Ericsson thinks it is fine in principle.

⇒ **The comeback has been addressed in [CB#403]**

R2-1816622 Corrections on falllback cases in EDT Ericsson CR Rel-15 36.321 15.3.0 1370 3 F NB_IOTenh2-Core, LTE_eMTC4-Core R2-1815746

⇒ **Remove "(UE implementations shall avoid data loss due to data being removed from the PDU in Msg3 buffer)"**

This CR is going to be discussed within the context of [CB#404]. The CR is revised in R2-1818656.

R2-1818656 Corrections on falllback cases in EDT Ericsson CR Rel-15

⇒ **The CR is agreed.**

R2-1816395 Clarification on when UL data transmission in EDT is not considered successful Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1201 - F NB_IOTenh2-Core, LTE_eMTC4-Core

- Ericsson wonders what happens for the integrity protection failure case.
- QC wonders whether this should be captured in a Stage 2 spec.

⇒ **For the first change; make it a NOTE, replace the existing text with "If neither RRCEarlyDataComplete nor, in case of fallback, RRCConnectionSetup is received in response to RRCEarlyDataRequest, the UE considers the UL data transmission not successful."**

⇒ **For the second change; make it a NOTE, replace the existing text with "If neither RRCConnectionRelease nor, in case of fallback, RRCConnectionResume is received in response to RRCConnectionResumeRequest for EDT, the UE considers the UL data transmission not successful."**

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=> Revised in R2-1818661

R2-1818661 Clarification on when UL data transmission in EDT is not considered successful Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1201 1 F NB_IOTenh2-Core, LTE_eMTC4-Core

R2-1816396 Discussion on CT1 LS on EDT Huawei, HiSilicon discussion Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core

Proposal 1: EDT is invisible to NAS layer.

Proposal 2: For CP-EDT, the UE NAS transits to ECM-CONNECTED when the UE transmits RRCEarlyDataRequest.

Proposal 3: Introduce a NOTE in 5.3.3.3b to clarify the interactions with upper layers

- LG thinks it would not be correct to assume that the connection is established without making sure that Msg3 transmission is received by the eNB.
- Ericsson thinks that the intention should be to keep EDT invisible to NAS layer. For UP, there is an explicit indication to upper layers, but this is not the case for CP.
- MediaTek thinks CT1 should state when such indication is needed. Intel agrees.
- Ericsson thinks the issue also exists for the UP case.

⇒ **EDT is invisible to NAS layer, i.e. NAS layer is not aware whether the connection is a legacy connection or an EDT connection.**

R2-1816397 Clarification on interactions with upper layers for EDT Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3693 - F NB_IOTenh2-Core, LTE_eMTC4-Core

⇒ **Not pursued.**

R2-1816398 [DRAFT] Reply LS on successful completion of early data transmission Huawei LS out Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core To:CT1

⇒ **Noted.**

R2-1816411 Corrections to EDT in 36.321 Huawei, HiSilicon CR Rel-15 36.321 15.3.0 1363 3 F NB_IOTenh2-Core, LTE_eMTC4-Core R2-1816392

⇒ **Replace the title with "Corrections to EDT for definition, Msg3, preambles, and MAC header structure"**

⇒ **Add a reference to TS 36.300**

⇒ **The CR is revised with the changes above and agreed in R2-1818653 unseen.**

R2-1816623 Remaining MO EDT issues Ericsson CR Rel-15 36.331 15.3.0 3709 - F NB_IOTenh2-Core, LTE_eMTC4-Core

⇒ **Remove changes in subclause 4.2.1**

⇒ **Remove the change in subclause 5.3.3.3a**

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⇒ **Remove the changes in subclauses 5.3.3.4a and 5.3.3.8 considering that the changes are merged to another CR.**

⇒ **Remove the following change in 5.3.8.3: "2> if stored, discard the stored nexthopChainingCount and the stored drbContinueROHC since this is merged to another CR.**

⇒ **Remove the following change in 5.3.8.3 "2> enter RRC_CONNECTED;"**

⇒ **Update the coverpage and make the title explicit.**

⇒ **The CR is attached to the LS to CT1.**

The CR is revised with the changes above in R2-1818658 and treated in [CB#405]

R2-1818658 Indications of RRC connection resumption and establishment to upper layers during EDT
Ericsson CR Rel-15

⇒ **Remove "Some NAS layer functionality may not work and certain timers may not be triggered." on the cover page**

⇒ **Add "Huawei, HiSilicon" and "LG Electronics Inc." as co-signing company.**

⇒ **Replace RAN2 with R2 on the cover page, i.e. Source to TSG**

⇒ **Replace "supports the change" with "implements the CR"**

⇒ **The CR is revised with the changes above and agreed in R2-1818668 unseen.**

R2-1816629 Reliable transport of user data in EDT Ericsson discussion Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core

Proposal 1 Reliable/persistent transport of user data in Msg3 should be supported in EDT.

Proposal 2 In EDT, reliable/persistent transport of user data in Msg3 should be configurable per bearer.

Proposal 3 RAN2 send an LS to SA2/CT1/RAN3 asking how to provide a possibility to ensure a security protected response to the NAS PDU containing user data for reliable data transport via the control plane.

- Huawei thinks this should be discussed in SA2 as this was intentional when introduced.
- Intel agrees with Huawei.
- Ericsson clarifies that the intention is to check whether the understanding is shared in RAN2 and explains that to make it similar to legacy the behaviour w r t discard timer needs to be updated.
- LG thinks this should not have anything to do with the discard timer. Intel agrees.
- LG would like to send an LS to SA2.
- Intel agrees with the intention, but thinks that it should be brought up in SA2.
- QC thinks there is no need to send an LS from RAN2.

Proposal 4 In UP-EDT, for reliable/persistent delivery of user data in Msg3:

- the PDCP discardTimer associated with DRB SDU starts upon successful integrity check of RRC message in Msg4

- in case of integrity check failure, the UE's PDCP layer considers the received DRB SDU not been confirmed successfully delivered by lower layer.

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Proposal 5 Capture the agreement about reliable delivery of user data in UP-EDT in PDCP specification

- Intel thinks this is already handled with the legacy mechanism so there is no need to capture anything.
- Ericsson thinks this is not correct, there are differences so something needs to be captured.
- QC, LG and MediaTek agree with Intel.

R2-1816630 Draft LS on reliable transport of user data in CP-EDT Ericsson LS out Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core To:RAN3, SA2, CT1

R2-1816624 Correction on UL data discard for EDT Ericsson CR Rel-15 36.323 15.1.0 0253 1 F NB_IOTenh2-Core, LTE_eMTC4-Core R2-1814337

⇒ **Not pursued**

R2-1816625 Correction on UL data discard for EDT with PDCP-RRC interaction Ericsson CR Rel-15 36.323 15.1.0 0260 - F NB_IOTenh2-Core, LTE_eMTC4-Core

⇒ **Not pursued**

R2-1816626 Correction on UL data discard for EDT with PDCP-RRC interaction Ericsson CR Rel-15 36.331 15.3.0 3710 - F NB_IOTenh2-Core, LTE_eMTC4-Core

⇒ **Not pursued**

R2-1816627 Corrections on EDT Ericsson CR Rel-15 36.300 15.3.0 1203 - F NB_IOTenh2-Core, LTE_eMTC4-Core

⇒ **Keep the last changes in subclause 7.3b.2 and subclause 7.3b.3 and the changes in subclause 10.1.5.1.**

⇒ **Other changes are removed.**

⇒ **The CR is revised in R2-1818659 with the chnages above and agreed unseen.**

R2-1817610 Correction on the use of PRACH resource pool for EDT Intel Corporation discussion Rel-15 LTE_eMTC4-Core

R2-1817609 Correction on the use of PRACH resource pool for EDT Intel Corporation CR Rel-15 36.331 15.3.0 3769 - F LTE_eMTC4-Core

Proposal 1. When random access preamble group B is used by eMTC, the PRACH resource for edt-PRACH-ParametersCE-r15 and PRACH-ParametersCE-r13 is not configured as common PRACH resource.

Proposal 2. Update the field description of edt-LastPreamble-r15 to allow the configuration of PRACH resource for EDT for the cases when edt-PRACH-ParametersCE-r15 and PRACH-

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ParametersCE-r13 are common or separate and when PRACH resource for multiple CE levels is shared or separate as provided in option # 1 or option # 2.

- Ericsson acknowledges the problems brought up in the discussion paper.
- ZTE thinks that the current text is enough, there is no need to change anything.
- LG thinks all issues brought up in the paper should be addressed.
- Intel thinks that the solutions should be backwards compatible for legacy, but non-backwards compatible changes can be accepted for EDT.

⇒ **RAN2 intends to address the issues brought up in the discussion paper above.**

[CB#406] To check whether/how the issues discussed above can be captured in the specifications with the principle that backwards compatibility is kept for legacy UEs [Intel].

R2-1818665 Correction on the use of PRACH resource pool for EDT Intel CR Rel-15

- Intel reports from the offline discussion that at least for one case, i.e. in which it should be possible to configure any preamble for EDT when EDT PRACH resources are allocated separately from legacy PRACH resources, can be captured in this meeting as the rest requires more discussion.

⇒ **Replace the field description for *edt-LastPreamble* with "Provides the mapping of preambles to groups for each CE level for EDT, as specified in TS 36.321 [6]. If PRACH resources configured by *edt-PRACH-ParametersCE-r15* are different from the PRACH resources configured by *PRACH-ParametersCE-r13* for all CE levels, the preambles for EDT are the preambles *firstPreamble-r13* to *edt-LastPreamble-r15*, otherwise the preambles for EDT are the preambles *lastPreamble-r13* +1 to *edt-LastPreamble-r15*."**

⇒ **The CR is revised in R2-1818670 with the change above.**

[104#29][eMTC R15] PRACH resource pool for EDT (Intel)
To agree R2-1818670 (Intel)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

R2-1818234 Correction on EDT description LG Electronics UK CR Rel-15 36.300 15.3.0 1208 - F LTE_eMTC4-Core, NB_IOTenh2-Core

⇒ **Not pursued**

R2-1818239 Clarification to UE states for EDT Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, ZTE Corporation, BlackBerry UK Ltd Sequans Communications, Gemalto, Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3796 - F NB_IOTenh2-Core, LTE_eMTC4-Core

- Ericsson thinks it would be good to capture on the cover page the justification for such decision.

⇒ **The CR is revised with an update on coverpage in R2-1818657 and agreed unseen.**

R2-1818253 AS - NAS interaction during Early Data Transmission (EDT) Ericsson, LG Electronics Inc. discussion LTE_eMTC4-Core, NB_IOTenh2-Core

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⇒ **For CP-EDT, upon reception of the *RRCEarlyDataComplete*, UE indicates to upper layers that RRC connection has been established.**

⇒ **For UP-EDT, upon reception of the *RRCConnectionRelease*, UE indicates to upper layers that suspended RRC connection has been resumed**

R2-1816628 LS reply on successful completion of early data transmission when eNodeB decided not to have RRC connection Ericsson LS out Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core To:CT1

⇒ **The draft LS can be provided in R2-1818655.**

[CB#405] To capture the agreements above [Ericsson]

R2-1818655 Reply LS on successful completion of early data transmission when eNodeB decided not to have RRC connection Ericsson LS out Rel-15

⇒ **Replace "It is RAN2 understanding that no additional work in CT1 is required." with "It is RAN2 understanding that no additional work in CT1 would be required."**

⇒ **Update the Tdoc number for the attachment.**

✓ **The LS is approved in R2-1818669.**

R2-1818580 Fallback indicated in DCI Ericsson discussion Rel-15 NB_IOTenh2-Core, LTE_eMTC4-Core Late

Proposal 1 Support fallback from Msg3 retransmission indicated in DCI.

Proposal 2 Alt1: the fallback shall be based on aborted/failed contention resolution and for following attempt(s) non-EDT preamble shall be used.

Proposal 3 Alt2: the fallback shall be based on restarting Msg3 HARQ process according to the UL grant provided with the DCI.

Proposal 4 Contention Resolution is considered to have failed when fallback indication is received in DCI for Msg3 retransmission and next preamble transmission attempt shall use non-EDT preamble.

- Gemalto thinks that this has been discussed already and there is no need to address the issues brought up in the paper considering that it adds complexity. QC and Intel agree.
- LG supports Proposal 1 and would like clarify proposals 2 and 3. After clarification from Ericsson, LG prefers Proposal 3.
- MediaTek wanted to confirm that this has been already captured in RAN1 specifications. Ericsson confirms.
- MediaTek wonders whether this would mean that the UE needs to prepare 2 types of messages. MediaTek do not support the proposals.
- QC thinks this was a suggestion from RAN1 leaving the decision to RAN2.
- Huawei wonders why it is important to identify a particular UE.
- Ericsson thinks this does not bring up any complexity and therefore it can easily be supported.
- Nokia supports the intention if something similar to Proposal 4 is agreed.
-

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R2-1818867 EDT fallback indicated in DCI Ericsson CR Rel-15 36.321 15.3.0 1405 - F NB_IOTenh2-Core, LTE_eMTC4-Core Late

⇒ **Not pursued.**

9.14.3 System acquisition time enhancements

System acquisition Enhancements for NB-IoT and MTC is treated jointly under this AI.

R2-1817608 Clarification on the absent of cellSelectionInfoCE in SIB3/SIB5 Intel Corporation CR Rel-15 36.331 15.3.0 3768 - F LTE_eMTC4-Core

- ZTE thinks the intention is not clear.

- Ericsson thinks the CR is not needed since if CE S criteria is not applicable SIB1-BR is not broadcasted. Huawei and QC agree.

- ZTE has a similar interpretation with Intel, but prefers no change in the specifications.

[CB#407] To check whether a clarification is needed [Intel]
- Huawei thinks current spec is clear and there is no need for a change.

⇒ **Not pursued.**

9.14.4 Relaxed monitoring for cell reselection

Relaxed monitoring for cell reselection for MTC is treated jointly with NB-IoT under AI 9.13.4. Do not use this AI for any item that can be discussed jointly.

9.14.5 Access/load control of idle mode UEs

R2-1816399 Correction to RSRP based EAB in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3694 - F NB_IOTenh2-Core, LTE_eMTC4-Core

9.14.6 Uplink HARQ-ACK feedback

9.14.7 Increased PDSCH spectral efficiency

9.14.8 Increased PUSCH spectral efficiency

R2-1816631 Exclusion of 1.4 MHz system bandwidth for flexible starting PRB Ericsson CR Rel-15 36.331 15.3.0 3712 - F LTE_eMTC4-Core

⇒ **Update the impact analysis on trhe cover page**

⇒ **Replace the fields names by “this field” in the changes.**

⇒ **The CR is revised with the above changes in R2-1818660 and agreed unseen.**

9.14.9 Wake Up Signal

Wake Up Signal etc for MTC is treated jointly with NB-IoT under AI 9.13.9 Do not use this AI for any item that can be discussed jointly.

9.14.10 Other

Including higher UE velocity, lower UE power class, CRS muting, dense PRS configurations etc.

R2-1817540 Correction to CRS Muting Capability Huawei, HiSilicon CR Rel-15 36.306 15.2.0 1666 - F LTE_eMTC4-Core

⇒ **The CR is agreed.**

9.15 Highly Reliable Low Latency Communication for LTE

LTE_HRLLC-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181259

Documents in this agenda item will be handled in a break out session

R2-1817408 RRC corrections for URLLC Ericsson CR Rel-15 36.331 15.3.0 3751 - F LTE_HRLLC

R2-1817577 Correction of PDCP duplication Ericsson India Private Limited CR Rel-15 36.323 15.1.0 0263 - F LTE_HRLLC

9.15.0 In principle agreed CRs

R2-1818072 Corrections on time reference information Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3654 2 F LTE_HRLLC-Core R2-1815774
=> Agreed

R2-1818073 Correction on UE behaviour about referenceSFN Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3655 2 F LTE_HRLLC-Core R2-1815775
=> Agreed

R2-1817254 Correction on SPS configuration for HRLLC OPPO CR Rel-15 36.331 15.3.0 3572 2 F LTE_HRLLC-Core R2-1815611
=> Agreed

R2-1817255 Correction on SPS configuration for HRLLC OPPO CR Rel-15 36.306 15.2.0 1647 2 F LTE_HRLLC-Core R2-1815612
=> Agreed

9.15.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

R2-1816209 LS on HRLLC (R1-1809691; contact: Ericsson) RAN1 LS in Rel-15 LTE_HRLLC-Core To:RAN2
=> Noted

9.15.2 Packet Duplication

R2-1817422 Correction on PDCP duplication option 2 Huawei, HiSilicon, Ericsson CR Rel-15 36.323 15.1.0 0255 3 F LTE_HRLLC-Core R2-1815951
=> Change the CR title to “Correction on PDCP duplication”
=> Add co-source company of Ericsson
=> With these changes CR is agreed in R2-1818695

R2-1816553 Introduction of Ultra Reliable Low Latency Communication for LTE MCC CR Rel-15 36.323 15.1.0 0259 - F LTE_HRLLC-Core
=> Noted
=> Already covered by agreed CR.

R2-1817429 Clarification of primary and secondary RLC entity Huawei, HiSilicon discussion Rel-15 LTE_HRLLC-Core
=> Noted

R2-1817430 Clarification of primary and secondary RLC entity option 1 Huawei, HiSilicon CR Rel-15 36.323 15.1.0 0262 - F LTE_HRLLC-Core

R2-1817431 Clarification of primary and secondary RLC entity option 2 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3752 - F LTE_HRLLC-Core
=> remove “DC based” and “CA based”
=> Revised in R2-1818698 (Offline#225, Huawei)

R2-1818698 Clarification of primary and secondary RLC entity Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3752 1 F LTE_HRLLC-Core
=> Remove the change on change
=> With this change the CR is agreed in R2-1818879

R2-1817432 Clarification of primary and secondary RLC entity option 3 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3753 - F LTE_HRLLC-Core

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R2-1817577 Correction of PDCP duplication Ericsson India Private Limited CR Rel-15 36.323 15.1.0 0263 - F LTE_HRLLC
=> Already covered by other agreed CR.

R2-1817433 Correction on srb-ToAddModListDupl Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3754 - F LTE_HRLLC-Core
=> Not pursued
CB on Friday: Huawei indicates that after offline discussion with Ericsson, they think R2-1817408 is not correct and we should agree R2-1817433 instead.

9.15.3 Other Priority Items

Other priority items for Rel-15 as identified in RAN plenary endorsed RP-180586

R2-1816551 Corrections to multiple SPS configurations after sTTI and HRLLC merge Ericsson, OPPO CR Rel-15 36.331 15.3.0 3676 1 F LTE_HRLLC-Core R2-1815613
=> Agreed

R2-1816557 Support of multiple UL SPS configurations and configuration of repetition Ericsson GmbH, Eurolab CR Rel-15 36.331 15.3.0 3707 - F LTE_HRLLC-Core
=> Change to this style that “xxxxx is always included in xxxx if xxxxxx is configured”
=> Revised in R2-1818696 (Offline#228, Ericsson)

R2-1818696 Support of multiple UL SPS configurations and configuration of repetition Ericsson GmbH, Eurolab CR Rel-15 36.331 15.3.0 3707 1 F LTE_HRLLC-Core
=> Agreed

9.15.4 Provision of Time Reference

Provision of time reference is a second priority item for Rel-15 as identified in RAN plenary endorsed RP-180586

9.16 UL data compression in LTE

(LTE_UDC-Core; leading WG: RAN2; Rel-15; started Sep 17; closed: Sep 18; WID RP-180914)
Documents in this agenda item will be handled in a break out session

9.16.1 In principle agreed CRs

9.16.2 Other

R2-1816875 Clarification on the ciphering of UDC header Samsung Research America CR Rel-15 36.323 15.1.0 0261 - F LTE_UDC-Core
=> UDC header should be ciphered.
=> Postponed

R2-1816945 Clarification on UDC configuration CATT, Intel Corporation, Ericsson CR Rel-15 36.331 15.3.0 3616 2 F LTE_UDC-Core R2-1815784
=> Agreed

9.17 Further enhancements to CoMP for LTE

(feCOMP_LTE-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-182004)
Documents in this agenda item will be handled in a break out session

9.18 Enhanced LTE Support for Aerial Vehicles

(LTE_Aerial-Core;leading WG: RAN2; REL-15; started: Dec. 17; closed: Sep. 18: WID:RP-181310)
Documents in this agenda item will be handled in a break out session

9.18.0 In principle agreed CRs

R2-1817119 Remaining aspects of capabilities for Rel-15 Aerial WI Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1654 1 F LTE_Aerial-Core R2-1814745

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=> Agreed

R2-1817423 Correction on flight path information Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3656 1 F LTE_Aerial-Core R2-1815287
=> Agreed

R2-1817424 Correction on measurement triggering based on number of cells Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3657 1 F LTE_Aerial-Core R2-1815288
=> Agreed

9.18.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

9.18.2 Subscription based identification

9.18.3 Mobility enhancement for connected mode

R2-1817435 Correction on T312 for measurement triggering based on number of cells Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3756 - F LTE_Aerial-Core
=> Not pursued

R2-1817436 Correction on T312 for height event Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3757 - F LTE_Aerial-Core
=> Not pursued

9.18.4 Airborne status/interference detection and indication

9.18.5 Others

9.19 Bluetooth/WLAN measurement collection in MDT

(LTE_MDT_BT_WLAN-Core; leading WG: RAN2; REL-15; started: Dec. 17; closed: Sep. 18: WID: RP-181743)
Documents in this agenda item will be handled in a break out session

9.19.1 In principle agreed CRs

R2-1818256 Correction on Bluetooth and WLAN measurement collection in MDT Huawei, HiSilicon, Intel Corporation CR Rel-15 36.331 15.3.0 3651 3 F LTE_MDT_BT_WLAN-Core R2-1815950
=> Agreed.

9.19.2 Other

9.20 Increased number of E-UTRAN data bearers

(INOBEARRAN-Core ; leading WG: RAN2; REL-15; started: Dec. 17; closed: Sep. 18: WID: RP-182133)
Documents in this agenda item will be handled in a break out session

9.20.1 Agreed in principle CRs

R2-1817905 Correction to MAC PDU subheaders including eLCID Qualcomm Incorporated CR Rel-15 36.321 15.3.0 1366 2 F INOBEARRAN R2-1815627
=> The CR is agreed

9.20.2 Other

9.21 Other LTE Rel-15 WIs

This agenda item may be corrections relating to Rel-15 WIs which had no allocated RAN2 time but which might have minor RAN2 impact (e.g. CT/SA WIs for which we have received an LS requesting RAN2 action)
Documents in this agenda item will be handled in a break out session

9.21.1 Agreed in principle CRs

R2-1817201 CR to 36.306 on correction of capability name for NW based CRS interference mitigation
Ericsson CR Rel-15 36.306 15.2.0 1657 1 F LTE_NW_CRS_IM
R2-1814843
=> The CR is agreed

R2-1817896 Addition of TDD UL/DL configuration to OTDOA assistance data Qualcomm Incorporated CR
Rel-15 36.355 15.1.0 0213 3 F TEI15 R2-1815869
=> The CR is agreed

9.21.2 Other

R2-1818180 Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2 Intel Corporation CR
Rel-15 36.306 15.2.0 1669 - F LTE_1RX_CRS_IM Revised

R2-1818314 Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2 Intel Corporation CR
Rel-15 36.306 15.2.0 1669 1 F LTE_1RX_CRS_IM R2-1818180 Late
- QC asks why the UE has to report the capability.
=> Revision needs to be updated
=> The CR is revised in R2-1818609

R2-1818609 Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2 Intel Corporation CR
Rel-15 36.306 15.2.0 1669 2 F LTE_1RX_CRS_IM R2-1818180 Late
=> Update cover page source to TSG to be RAN2
=> Shorten Interference mititation to IM
=> The CR is agreed in R2-1818956 with the change above

R2-1818315 Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2 Intel Corporation CR
Rel-15 36.331 15.3.0 3800 - F LTE_1RX_CRS_IM Late
=> The CR is revised in R2-1819025

R2-1819025 Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2 Intel Corporation CR
Rel-15 36.331 15.3.0 3800 1 F LTE_1RX_CRS_IM Late
=> Shorten Interference mititation to IM (crs-IM-TM1-toTM9-OneRX-Port-v15xy) and update extensions to 1540 instead of 15xy
=> Update source to TSG
=> the is agreed in R2-1818957 with the changes above

R2-1817202 CR to 36.331 on correction of field descriptions for NW based CRS interference mitigation
Ericsson CR Rel-15 36.331 15.3.0 3739 - F LTE_NW_CRS_IM
- Qualcomm thinks we should align the field description
=> The CR is revised in R2-1818610

R2-1818610 CR to 36.331 on correction of field descriptions for NW based CRS interference mitigation
Ericsson CR Rel-15 36.331 15.3.0 3739 1 F LTE_NW_CRS_IM
=> the CR is agreed

R2-1818331 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3803 - B TEI15
=> Improve field description
=> The CR is revised in R2-1818608

R2-1818608 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3803 - B TEI15
=> Update to “if the UE is in *any cell selection* state”
=> Change the first “else” to not be italics
=> delete last if in the else if
=> the CR is agreed in R2-1818958 with the changes above

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9.22 LTE TEI15 enhancements

Small Technical Enhancements affecting LTE Rel-15 that do not belong to any Rel-15 WI.

This AI is for corrections to items introduced under TEI15. New proposals shoud be submitted to TEI16 when it time is allocated for it later in the release/

Documents in this agenda item will be handled in a break out session

Including output of email discussion [103bis#13]LTE] Early implementable features (DOCOMO)

Email discussion [103bis#13]LTE] Early implementable features

R2-1816283 [103bis#13] Normative Annex of CRs Containing Early Implementable Features and Corrections NTT DOCOMO INC. CR Rel-15 36.331 15.3.0 3681 - F TEI15

- T-Mobile is concerned about putting RAN2 internal procedures in this kind of normative spec.
- BlackBerry think that the 2nd paragraph is removed.
- Ericsson think we could consider to include it in the RAN2 compendium.

=> Content of the table is agreeable

=> Offline discussion to reword the text so it does not read as instructions to the CR author by just describes the content of the different columns of the table.

=> RP tdoc number will not need to be included in the CRs but will be added by MCC when the CR is implemented.

=> Any CRs that are early implementable at this meeting should include the table row.

=> Revised in R2-1818592 (Offline discussion 01)

R2-1818592 [103bis#13] Normative Annex of CRs Containing Early Implementable Features and Corrections NTT DOCOMO INC., BlackBerry UK Ltd CR Rel-15 36.331 15.3.0 3681 - F TEI15

=> Change " compatibility " to "interoperability"

=> Agreed in R2-1819057

Other

R2-1816632 Early activation of security Ericsson, ZTE corporation discussion TEI15

- Huawei thinks that this should be completely independent of EDT and there should be no changes to EDT
- Nokia asks if the network has to broadcast support of this feature. Ericsson thinks that there would need to be an indication
- Intel also has some concerns as during EDT we had a lot of work to resolve all the issues and does not want to start discussing all these impacts for legacy
- Qualcomm thinks this would be nice to have but there are quite a few impacts and we would also have to involve SA3

=> No sufficient support for Rel-15

- Ericsson asks in what AI we can discuss. Nokia thinks that if there is SA3 issues maybe we would need a small work item.

=> Noted

R2-1816633 Early activation of security Ericsson CR Rel-15 36.331 15.3.0 3711 - F TEI15 Late

=> Not treated

R2-1816245 LPP Barometric Sensor AD Correction Polaris Wirelessdiscussion Rel-15 36.355 TEI15

=> Noted

R2-1816246 Sensor Assistance Data Elements Correction Polaris Wireless, Intel CR Rel-15 36.355 15.1.0 0232 - F TEI15

=> Add CR number

=> Add impact analysis section in the cover page

=> additional supporter include AT&T and FirstNet

- Ericsson would like to clarify that if the pressureValidityArea is not present it should be up to UE implementation

=> Update field description of pressurevalidityarea

- NextNav thinks that if the CR is not implementation, it will work and we should clarify in cover page that it is an optimization. There is a Rel-16 Study item where this can be in scope.

=> Update consequences if not approved

=> The CR is revised in R2-1818594

R2-1818594 Sensor Assistance Data Elements Correction Polaris Wireless, Intel CR Rel-15 36.355 15.1.0 0232 1 F TEI15

=> The CR is agreed

R2-1817406 Correction on Configured Scheduling during Random Access Procedure Ericsson CR Rel-15 36.321 15.3.0 1391 - F TEI15

=> The CR number of previous document should be used in general

- Qualcomm and Intel think that we should follow the NR conclusion
- Ericsson asks why we should follow NR
- Intel thinks that it can be handled by UE implementation and doesn't see a problem. LG, Huawei agree and thinks this is a rare case

=> The CR in not pursued

R2-1817571 Small data burst calculation clarification and corrections Ericsson,Nokia, Nokia Shanghai Bell, Huawei CR Rel-15 36.314 15.1.0 0058 - F TEI15

=> The CR is agreed

R2-1817585 Avoiding resource shortage due to introduction of positioning SIBs Ericsson, ESA discussion Rel-15

- Nokia thinks this is a major impact to the implementation and would prefer to avoid all this optimizations.
- Intel asks if this issue exist if for 160ms periodicity. Qualcomm agrees and it is up to implementation on the periodicity of the SIs.
- Qualcomm asked last meeting about the reference of why 10ms window is needed. Nokia thinks that is unrealistic.

CAN we agree with the offset?

- Qualcomm asks if this is only for positioning or on all SI messages. Qualcomm prefers the latter. Nokia agrees with QC and this should be a general design change for scheduling SI

=> No support for the change

=> Agree to introduce an offset for all positioning SIs

=> Noted

R2-1817574 SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information Ericsson, ESA CR Rel-15 36.331 15.3.0 3596 1 F TEI15 R2-1814106

=> The CR is revised in R2-1818612

R2-1818612 SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information Ericsson, ESA CR Rel-15 36.331 15.3.0 3596 2 F TEI15 R2-1814106

=> the category needs to be updated to C

=> The CR is revised in R2-1818959

R2-1818959 SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information Ericsson, ESA CR Rel-15 36.331 15.3.0 3596 3 F TEI15 R2-1814106

[CBF]

R2-1817781 Draft LS for inclusion of Receive Only Mode MBMS service parameters in USD Qualcomm India Pvt Ltd LS out Rel-15 TEI15 To:SA 4 Cc:SA2, RAN1

=> The LS is approved in R2-1818960

R2-1817787 MBMS reception in Receive Only Mode Qualcomm India Pvt Ltd CR Rel-15 36.300 15.3.0 1207 - B TEI15

=> Add impact analysis

=> The CR is revised in R2-1818596

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R2-1818596 MBMS reception in Receive Only Mode Qualcomm India Pvt Ltd CR Rel-15 36.300 15.3.0 1207 - B TEI15
=> The CR is agreed

R2-1817788 MBMS reception in Receive Only Mode Qualcomm India Pvt Ltd CR Rel-15 36.331 15.3.0 3776 - B TEI15
=> Add impact analysis
=> The CR is revised in R2-1818597

R2-1818597 MBMS reception in Receive Only Mode Qualcomm India Pvt Ltd CR Rel-15 36.331 15.3.0 3776 1 B TEI15
=> The CR is agreed

R2-1818021 CR to mandate FGI 103 and 104 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3785 - F LTE-L23, TEI15
- Qualcomm thinks that it is up to plenary discussion for Category
- Huawei agrees but we can technically endorse the CR assuming the category 6 may be agreed.
- Nokia thinks we should discuss whether there would be any technical changes if plenary agrees to a different number. They think there is not issue.
- Qualcomm asks why we have added yes to the fourth column. Huawei explains that we did this for Rel-10.

=> Check for the “yes” column
=> The category is changed to [X]. The value X can be determined by RAN plenary and can be substituted without technical issues.
=> The CR is revised in R2-1818598

R2-1818598 CR to mandate FGI 103 and 104 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3785 - F LTE-L23, TEI15
=> The CR is technically endorsed

R2-1818225 UE operation upon RRC reject reception Apple CR Rel-15 36.331 15.3.0 3795 - F TEI15
- CMCC supports to add this note as the network may consecutively reject the UE.
- Qualcomm thinks we should at least change the wording:
  NOTE: If UE receives multiple RRCConnectionReject message for initial access procedure, UE may consider the cell as barred.
- Intel asks what multiple means.
- Nokia and Ericsson point out that last meeting we decided to not do anything and this note seems to specify normative behaviour. LG has a similar understanding and it is UE implementation issues.
- Qualcomm also doesn’t see a lot of value with these notes. There is no requirement for the UE to reselect to another cell.
- Apple would like to avoid this from happening and asks what the UE would do in such cases. Intel understands that the UE has to stay in the same cell. Nokia explains that for cell selection we don’t specify strict rule.

After comeback
- Apple thinks we can agree to capture on the chair notes – it is up to UE implementation to handle multiple RRC connection reject messages
- Ericsson thinks that if we don’t capture anything then by definition it is left up to UE. Nokia also doesn’t think a note is needed.
- CMCC thinks it would be beneficial especially for fake eNBs
- Intel thinks that it acceptable to have a note in the miunutes.
- ZTE think that there is a danger with changing the behaviour and barring.

=> The UE behaviour for multiple RRC connection reject message will not be specified beyond what is in the specification.
- QC, Intel, LG, Apple, CMCC, assume that this conclusion means it is up to UE implementation to handle multiple RRC connection reject messages

=> Noted

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10 WI: New Radio (NR) Access Technology

(NR_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Dec. 18: WID: RP-181726)

10.1 Organisational

Incoming LSs, status from other groups, etc.
Liaisons to RAN2

R2-1816203 Reply LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service (C1-186851; contact: Samsung) CT1 LS in Rel-15 5GS_Ph1-CT To:RAN2 Cc:SA2
=> To be discussed based on tdoc during the week

R2-1816205 Reply LS on establishment causes (C1-186967; contact: Ericsson) CT1 LS in Rel-15 5GS_Ph1-CT To:RAN2 Cc:SA1, SA2
=> To be addressed by CR in eLTE session

R2-1816222 LS on network synchronization for handover purposes (R1-1812074; contact: Ericsson) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
- Huawei think the change is not an essential correction. So we should not change to make the MIB reading optional.

=> To be discussed based on tdocs during the week

R2-1816227 LS on measurement of different SSBs with different PCIs within the same NCGI (R3-186262; contact: Nokia) RAN3 LS in Rel-15 NR_newRAT-Core To:RAN2
=> To be discussed based on tdocs during the week

R2-1816224 Reply LS on inclusion of selected PLMN into the complete message (R3-186231; contact: Qualcomm) RAN3 LS in Rel-15 NR_newRAT-Core, 5GS_Ph1-CT To:RAN2, CT1 Cc:SA2
- ZTE think the response assume that PLMN will always be provided in MSG5 but actually in our spec it is only provided when NAS provides.
- Qualcomm think that the gNB can select the PLMN when the UE moves to connected. But this it will not happen in reality so we do not need to care.
- Samsung think the ley question is whether we allow RNAs that have cell of different PLMNs.
- Intel think that the network could also use fallback.

=> Noted

R2-1816207 Reply LS on inclusion of selected PLMN into the complete message C1-186994; contact: Samsung) CT1 LS in Rel-15 5GS_Ph1-CT To:RAN2, RAN3 Cc:SA2, SA3
- Samsung think whether this is a problem depends on whether the case described is a typical configuration.
- ZTE think that the authentication issue should be avoided.

=> Offline discussion to conclude what to response to RAN3 and CT1.
=> Check offline whether RAN3 may have misunderstood that PLMN is always present in MSG5
=> Response can indicate current decision is that cell of EPLMN can be in the RNA config.
=> Response LS in R2-1818613 (Offline discussion 02, Samsung)
- Update from offline: Concluded that no LS out is needed from this meeting as RAN3 have discussed and sent an LS.

R2-1818613 [DRAFT] Reply LS on inclusion of selected PLMN into the complete message Samsung LS out Rel-15 NR_newRAT-Core To:CT1

Liaisons to RAN2 with response to RAN2 questions but no follow up actions (responses can be considered during discussions in the meeting)

R2-1816202 LS on RRC establishment cause in RRC reestablishment fallback case (C1-186600; contact: Huawei) CT1 LS in Rel-15 5GS_Ph1-CT To:RAN2 Cc:RAN3

R2-1816210 Reply LS on power class for FR1 EN-DC and NR CA (R1-1811935; contact: Samsung) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN4

R2-1816215 Reply LS on intra-band combination for NR CA and MR-DC (R1-1812028; contact:Intel) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN4

R2-1816229 Reply LS on intra-band combination for NR CA and MR-DC (R4- 1813862; contact: T-Mobile) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN1

R2-1816219 Reply LS on PHR and SUL (R1-1812062; contact: Huawei) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816220 Reply LS on L1 capabilities (R1-1812065; contact: AT&T) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816226 Reply LS on asymmetric mapping for UL and DL QoS flows (R3-186248; contact: LGE) RAN3 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816230 Reply LS on power class and P-Max for FR1+FR2 EN-DC and NR CA (R4-1814148; contact: Oppo) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816233 Reply to LS on Slice based Wait timer in NR RRC release (S2-1811520; contact: Ericsson) SA2 LS in Rel-15 NR_newRAT-Core, 5GS_Ph1 To:RAN2 Cc:SA1, CT1

R2-1816234 Reply LS on the need of paging reception for the call-back when a UE is in limited service state (S2-1811544; contact: Intel) SA2 LS in Rel-15 NR_newRAT-Core, 5GS_Ph1 To:RAN2 Cc:SA1

=> All LSs above are noted

Liaisons to RAN2 with agreements to take into account (can be considered during discussions in the meeting)

R2-1816211 LS on aperiodicTriggeringOffset (R1-1811936; contact: Ericsson) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816212 LS on description of QCL (R1-1811937; contact: ZTE and Intel) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816213 LS on field description for SearchSpace (R1-1811969; contact: NTT DOCOMO) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816216 LS on RAN1 NR UE features update (R1-1812037; contact: NTT DOCOMO and AT&T) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2, RAN4 Cc:RAN3

R2-1816221 LS on clarification to Max Data Rate in TS38.306 (R1-1812072; contact: Ericsson) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816223 LS on search space configuration for DCI format 2_0 monitoring (R1-1812075; contact: Qualcomm) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816228 LS to RAN2 on measurement gap applicability (R4-1813693; contact: CMCC) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2

R2-1816243 Avoiding MME impacts from 3-byte TAC S2-1811574; contact: Qualcomm) SA2 LS in Rel-15 5GS_Ph1 To:RAN2, RAN3

=> All LSs above are noted

Liaisons with RAN2 in CC

R2-1816225 Reply LS to SA5 on L2 measurementst (R3-186232; contact: Huawei) RAN3 LS in Rel-15 NR_newRAT-Core To:SA5 Cc:RAN2

R2-1816231 Reply LS on Return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (S2-1810800; contact: MediaTek) SA2 LS in Rel-16 FS_5G-SRVCC To:RAN6 Cc:RAN2, RAN3

R2-1816242 Reply LS on initial NAS security agreements (S2-1811568; contact: Intel) SA2 LS in Rel-15 5GS_Ph1 To:SA3, CT1 Cc:RAN2, RAN3, SA

R2-1816448 Reply LS on maximum output size of SUPI concealment schemes (C1-186992; contact: Ericsson) CT1 LS in Rel-15 5GS_Ph1-CT To:SA3 Cc:RAN2, SA2, CT4

R2-1816449 Reply LS on Maximum output size of SUPI concealment schemes (C4-187633; contact: Ericsson) CT4 LS in Rel-15 NR_newRAT-Core To:SA3 Cc:CT1, RAN2, SA2

=> All LSs above are noted

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Liaisons for Rel-16 but no Rel-16 WI

R2-1816236 LS on supporting low latency and low jitter during handover procedure S2-1811556; contact: Oppo) SA2 LS in Rel-16 FS_5G_URLLC To:RAN2, RAN3
- OPPO think we can answer question 1 that we will discuss later in the mobility WI
- Ericsson also have a draft LS response.

=> The technical questions will not be discussed online this meeting
=> We will respond that HO interruption will be discussed in R16 mobility enhancements WI.

R2-1816237 LS on QoS Monitoring (S2-1811558; contact: Huawei) SA2 LS in Rel-16 FS_5G_URLLC To:SA5, RAN2, RAN3
- Nokia think this is not in the scope of the I-IoT SI but may be in the scope of the SON SI

=> The technical questions will not be discussed online this meeting
=> Discuss offline whether this falls within scope of any of our existing Rel-16 WIs/SIs
=> Respond to SA2 accordingly and with an indication when we might be able to respond to the questions.
=> Response LS in R2-1818621 (Offline discussion 04, Huawei)

R2-1817258 [DRAFT] Reply LS to SA2 on QoS monitoring Huawei LS out Rel-16 FS_5G_URLLC To:SA2 Cc:RAN3
=> Approved,final LS in R2-1818621
=> Revised by MCC in R2-1819110 (old tdoc number on the header)
=> Approved

R2-1816204 Reply LS on LS on the Impacts of increasing the MAC-I and NAS-MAC size (C1-186961; contact: Huawei) CT1 LS in Rel-16 To:SA2 Cc:RAN2, RAN3, ETSI SAGE

=> Noted

R2-1816238 LS on New QCI-5QIs for FLUS (S4-181167; contact: Qualcomm) SA4 LS in Rel-16 E-FLUS To:SA2 Cc:RAN2
=> Noted

R2-1816239 LS reply on energy efficiency of 5G (S5-186375; contact: Orange) SA5 LS in Rel-16 EE_5G To:ETSI TC EE Cc:SA, RAN, RAN2, RAN3
=> Noted

New LS in (during RAN2#104)

R2-1818857 Reply LS on RRC cause in RRC reestablishment fallback (R3-187082; contact: Huawei) RAN3 LS in Rel-15 NR_newRAT-Core To:RAN2, SA2 Cc:CT1
=> Noted

R2-1818925 Reply LS on PHR and SUL (R1-1813951; contact: Huawei) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
=> Handled by breakout session on L1 parameters

R2-1818926 Reply to further reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon (R1-1814066; contact: Ericsson) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
=> Handled by breakout session on L1 parameters

R2-1818973 Reply LS on MIMO layer configuration (R1-1813952; contact: MediaTek) RAN1 LS in Rel-15 NR_newRAT-Core To:RAN2
=> Handled by breakout session on L1 parameters

R2-1818990 LS on power offset indication for CSI-RS (R1-1813950; contact: Huawei) RAN1 LSin Rel-15 NR_newRAT-Core To:RAN2
=> Noted

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New LS in

R2-1819007 Reply LS on NR MIMO layer configuration (R4-1816463; contact: Intel) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN1
=> Handled by breakout session on L1 parameters

R2-1819075 LS on new UE capability for intra-band EN-DC and intra-band NR UL CA (R4-1816623; contact: CHTTL) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN1

10.2 Stage 2 and common UP/CP aspects

10.2.0 In principle agreed CRs

In principle agreed CR to 38.300, 37.340, 36.300
38.300

R2-1816412 RDI handling for data forwarding at handover Nokia, Ericsson, Huawei, HiSilicon, Nokia Shanghai Bell CR Rel-15 38.300 15.3.0 0093 2 F NR_newRAT R2-1815931

R2-1816413 SON Overview Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0091 2 F NR_newRAT R2-1815803

R2-1816414 Scheduling Request Overview Rapporteur (Nokia), Ericsson CR Rel-15 38.300 15.3.0 0088 2 F NR_newRAT R2-1815801

R2-1816415 System Information Provisionning Rapporteur (Nokia), OPPO, Sanechips, ZTE corporation CR Rel-15 38.300 15.3.0 0089 1 F NR_newRAT R2-1814211

R2-1817601 Correction to beam failure detection in Stage-2 Rapporteur (Nokia), Qualcomm, Nokia Shanghai Bell CR Rel-15 38.300 15.3.0 0103 1 F NR_newRAT R2-1814935

R2-1817649 Corrections to System Information Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0074 2 F NR_newRAT-Core R2-1815068

R2-1817839 Signalling flow for transitions from RRC_INACTIVE to RRC_IDLE Huawei, HiSilicon, Nokia (Rapporteur) CR Rel-15 38.300 15.3.0 0087 2 F NR_newRAT-Core R2-1815805

R2-1818022 Stage2 Corrections on UE capability Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0075 2 F NR_newRAT-Core R2-1815136

R2-1818519 Clarification on SSB-based BM, RLM and BFD ZTE Corporation, Sanechips CR Rel-15 38.300 15.3.1 0102 2 F NR_newRAT-Core R2-1814895

R2-1818535 Clarification on basic voice support Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0095 2 F NR_newRAT-Core R2-1815804

R2-1818536 CR on Slice Aware Access Control Nokia, Nokia Shanghai Bell, Huawei, HiSilicon CR Rel-15 38.300 15.3.1 0028 5 F NR_newRAT-Core R2-1814963
=> All 38.300 CRs above are agreed

R2-1816416 Transport of NAS Messages Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0090 2 F NR_newRAT R2-1815802
- Ericsson think some aspects are missing that need to be covered
=> Change the 'may' in the note to "can"
=> Agreed in R2-1818622

37.340

R2-1816677 CR on 37.340 for split SRB UL configuration Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0067 1 F NR_newRAT-Core R2-1814690

R2-1818520 Miscellaneus clarifications ZTE Corporation, Sanechips, Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0071 1 F NR_newRAT-Core R2-1814892
=> Both 36.340 CRs above are agreed

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36.300

R2-1817314 Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-DC (36.300)
Ericsson CR Rel-15 36.300 15.3.0 1200 3 F NR_newRAT-Core R2-1815858
=> Agreed

Originally submitted to 10.2.1 but appears to be identical to the in principle agreed version. Then revised.

R2-1817350 Correction to the system information in Handover Request message Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0086 1 F NR_newRAT-Core R2-1814121
=> Revised R2-1818561

R2-1818561 Correction to the system information in Handover Request message Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0086 2 F NR_newRAT-Core
- Only cover page was updated compared to last meeting
=> Agreed

AIP CRs that may need to be revised this week

Come back to agree in case a revision was not agreed this week

R2-1818537 Clarification on dynamic grant override configured grant vivo, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0083 2 F NR_newRAT-Core R2-1815800
=> Revised in R2-1818650 (Offline discussion 08)

R2-1818650 Clarification on dynamic grant override configured grant vivo, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0083 2 F NR_newRAT-Core R2-1815800
=> Agreed

R2-1818143 RA triggers Huawei, HiSilicon, Rapporteur (Nokia), Qualcomm Incorporated, Ericsson CR Rel-15 38.300 15.3.0 0106 2 F NR_newRAT-Core R2-1815806
=> Agreed

Withdrawn

R2-1816535 Basic Voice support Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0113 - F NR_newRAT-Core

R2-1816536 Slice Aware Access Control Nokia, Nokia Shanghai Bell, Huawei, HiSilicon CR Rel-15 38.300 15.3.1 0114 - F NR_newRAT-Core

R2-1817017 Clarification on dynamic scheduling override configured downlink assignment vivo, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0118 - F NR_newRAT-Core

10.2.1 Stage 2 corrections for TS 38.300

As previously requested stage 2 description improvements should be discussed with the specification rapporteur before submission to the meeting - the aim is reduce the required discussion time in the meeting.

Stage 2 description improvements - discussed with rapporteur

R2-1816336 CR on 38.300 for Correction of BWP adaptation LG Electronics Mobile Research, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0107 - F NR_newRAT-Core
=> Agreed

R2-1816417 Notification Control Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0108 - F NR_newRAT
=> Remove " In this Release of the specification, "
=> Agreed in R2-1818623

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R2-1816418 PDU Session AMBR Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0109 - F NR_newRAT
=> Agreed

R2-1816419 Logical channel restrictions clarifications and correction Rapporteur (Nokia), Apple, Ericsson, NTT DOCOMO, INC., OPPO, Qualcomm CR Rel-15 38.300 15.3.0 0110 - F NR_newRAT
- LG think there is still discussion in the UP session and it may need to be updated again.
=> Agreed
=> If discussion in UP session means that a further update is needed the a revision can be requested

R2-1816420 Initial CORESET Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0111 - F NR_newRAT
- Nokia explain that RRC refers to Initial CORESET which is why it is proposed to be defined.
- ZTE think it is not used by RRC. Qualcomm also think we should be careful and fix the cases we have used initial coreset.
- Huawei think we can just refer to coreset 0.
=> Offline activity to check if Initial Coreset has been used in our specs and decide whether it is better to correct that instead of adding a new definition (Offline discussion 06, Nokia)
=> Revised in R2-1818905

R2-1818905 Initial CORESET Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0111 1 F NR_newRAT
=> Agreed

R2-1816841 Description of RLM aspects ZTE Corporation, Sanechips, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0116 - F NR_newRAT-Core
- Huawei wonder if this really needs to be captured in stage 2 given it is already in stage 3.
=> Revised in R2-1818649 (Offline discussion 07)

R2-1818649 Description of RLM aspects ZTE Corporation, Sanechips, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0116 - F NR_newRAT-Core
=> Agreed

R2-1817019 Some clarifications on CS-RNTI vivo, Rapporteur (Nokia), Ericsson, Samsung CR Rel-15 38.300 15.3.0 0119 - F NR_newRAT-Core
=> Changes will be discussed as a revision of CR 0083 2, with aim to simplify the added text.
=> Not agreed

R2-1817203 Clarification of AMF switch in RRC_INACTIVE Ericsson, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0084 1 F NR_newRAT-Core R2-1814076
- LG wonders if the gNB can detect the AMF has changed based on the context fetch. Ericsson assumes it relies on the AMF identifier.
- Qualcomm think the context cannot be retrieved in this case. ZTE have the same understanding
- OPPO supports the intention but think we don’t need to capture all cases.
- Intel think this scenario is not support and the context fetch will not be successful
=> Capture that the context fetch is not successful in the case of AMF change
=> Revised in R2-1818821 (Offline discussion 09)

R2-1818821 Clarification of AMF switch in RRC_INACTIVE Ericsson, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0084 2 F NR_newRAT-Core
=> Agreed

R2-1817442 Corrections on NUL and SUL descriptions Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0127 - F NR_newRAT-Core

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- ZTE think the term NUL is not needed although understand it is used in MAC. CMCC have a similar view.
- Nokia wonder if we should remove it from MAC

=> The term NUL will not be introduced
=> Only change needed is in 7.8 and CR title and cover page changed accordingly
=> Revised in R2-1818822 (Offline discussion 10)

R2-1818822 Corrections on NUL and SUL descriptions Huawei, HiSilicon, Rapporteur (Nokia) CR Rel-15 38.300 15.3.0 0127 1 F NR_newRAT-Core
=> Agreed

R2-1817987 CR on the carrier selection for random access ITRI, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0134 - F NR_newRAT-Core
=> Use UL instead of NUL
=> Reword "or leave it up to UE " to avoid it suggesting that it is UE implementation
=> Can also discuss offline whether to cover the initial access case
=> Revised in R2-1818824 (Offline discussion 11)

R2-1818824 CR on the carrier selection for random access ITRI, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0134 1 F NR_newRAT-Core
=> Agreed

R2-1818402 Corrections on Multi-Radio dual connectivity Ericsson, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0137 - F NR_newRAT-Core
=> Update cover sheet to say " description of Multi-RAT dual connectivity within NG-RAN"
=> Agreed in R2-1818825

R2-1817588 Defining inter-system and intra-system handover Ericsson CR Rel-15 38.300 15.3.1 0097 1 F NR_newRAT-Core R2-1814665
=> R2-1818589

R2-1818589 Defining inter-system and intra-system handover Ericsson CR Rel-15 38.300 15.3.1 0097 1 F NR_newRAT-Core R2-1814665
=> Remove the final sentence and the table
=> Agreed in R2-1818826

R2-1816811 Correction regarding key deletion at state transition to RRC IDLE Ericsson CR Rel-15 38.300 15.3.1 0099 1 F NR_newRAT-Core R2-1814673
=> Revised in R2-1818590

R2-1818590 Correction regarding key deletion at state transition to RRC IDLE Ericsson CR Rel-15 38.300 15.3.1 0099 1 F NR_newRAT-Core R2-1814673
=> Interop analysis is not needed
=> Consequence it not approved should be "stage 2 misaligned to stage 3"
=> Agreed in R2-1818827

R2-1816798 Correction of activation of Scells Ericsson CR Rel-15 38.300 15.3.1 0115 - F NR_newRAT-Core
= >Revised to R2-1818591

R2-1818591 Correction of activation of Scells Ericsson CR Rel-15 38.300 15.3.1 0115 - F NR_newRAT-Core
=> Coversheet to be updated to describe the reason for change
=> Discuss offline if any other changes are needed
=> Revised in R2-1818828 (Offline discussion 13)

R2-1818828 Correction of activation of Scells Ericsson, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0115 2 F NR_newRAT-Core
=> Agreed

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R2-1817643 SSBurst and SSB relations in 38.300 Ericsson CR Rel-15 38.300 15.3.1 0096 1 F NR_newRAT-Core R2-1814540
- Documents is already being discussed offline among ZTE, Ericsson and rapporteur.
=> Revised in R2-1818829 (Offline discussion 14)

R2-1818829 SSBurst and SSB relations in 38.300 Ericsson CR Rel-15 38.300 15.3.1 0096 2 F NR_newRAT-Core
=> Agreed

R2-1817204 Release and Redirect in 2-step procedure Ericsson CR Rel-15 38.300 15.3.1 0122 - F NR_newRAT-Core
=> Revised to R2-1818579

R2-1818579 Release and Redirect in 2-step procedure Ericsson CR Rel-15 38.300 15.3.1 0122 - F NR_newRAT-Core
- Huawei think the content of this was not agreed
- Intel agree that it was not agreed and needs to be discussed first.
- Ericsson think the only open case if whether release with redirection is possible without context relocation
=> Not agreed

R2-1817410 Clarification on power ramping counter OPPO, Fujitsu, Qualcomm CR Rel-15 38.300 15.3.1 0125 - F NR_newRAT-Core
=> Remove the whole sentence that says " If the MAC entity receives notification to suspend power ramping counter or UE conducts beam switching it selects a different do (rely on the MAC spec to cover the details)
=> Agreed in R2-1818830

Stage 2 description improvements" - not discussed with rapporteur

R2-1816798 Correction of activation of Scells Ericsson CR Rel-15 38.300 15.3.1 0115 - F NR_newRAT-Core

R2-1816808 Security interworking between EPC and 5GC Ericsson CR Rel-15 38.300 15.3.1 0098 1 F NR_newRAT-Core R2-1814671

R2-1817013 Clarification on DRX in CA and DC Samsung CR Rel-15 38.300 15.3.1 0117 - F NR_newRAT-Core

R2-1817440 Correction on data forwarding Huawei, HiSilicon CR Rel-15 38.300 15.3.1 0126 - F NR_newRAT-Core

R2-1817624 Description of beam-based transmission of SSB ZTE Corporation, Sanechips CR Rel-15 38.300 15.3.1 0130 - F NR_newRAT-Core

R2-1817629 SSBurst and SSB relations in 38.300 Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818063 Correction to RLM on SSB associated to the initial BWP Samsung CR Rel-15 38.300 15.3.1 0135 - F NR_newRAT-Core

R2-1817300 Corrections regarding handover from EPC to 5GC Ericsson CR Rel-15 38.300 15.3.1 0124 - F NR_newRAT-Core

Stage 2 changes

R2-1818119 Discussion on necessity of frame boundary alignment of NR CA CMCC discussion NR_newRAT-Core
- Nokia wonder what is the RAN2 point to be discussed
- Qualcomm think this needs to be discussed in RAN1 and that it is not clear whether it would be backward compatible.
- CMCC want to understand that from RAN2 point of view there is no constraint.
- Ericsson think that RAN2 assume the SFN timing is the same and RAN1/4 need to discuss finer timing.
- Vivo think there is no SFN restriction in RAN2, but maybe we need clarification in MAC
- Intel think the CMCC proposal is to maintain the SFN alignment but not the frame boundary. But if we really want to remove the constraint then there would be things to clarify in the spec.

- CMCC think both SFN and frame restriction can be removed.
- MediaTek think there can be unintended consequences of this change.

=> Noted

R2-1818120 CR to TS 38.300 to correct the restriction on frame boundary alignment of NR CA CMCC CR Rel-15 38.300 15.3.1 0136 - F NR_newRAT-Core

Late

R2-1817535 Corrections on radio link failure Ericsson CR Rel-15 38.300 15.3.1 0129 - F NR_newRAT-Core Late

Withdrawn

R2-1816270 CR on 38.300 for Correction of BWP adaptation LG Electronics Mobile Research, Rapporteur (Nokia) CR Rel-15 38.300 15.3.1 0094 1 F NR_newRAT-Core R2-1814454 Withdrawn

10.2.2 Stage 2 corrections for TS 37.340

Corrections to 38.300 or 37.340 for Standalone and any EN-DC related aspects added in June 18.

As previously requested stage 2 description improvements should be discussed with the specification rapporteur before submission to the meeting - the aim is reduce the required discussion time in the meeting.

Stage 2 description improvements - discussed with rapporteur

R2-1816842 Correction for SN terminated MCG bearer ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell CR Rel-15 37.340 15.3.0 0079 - F NR_newRAT-Core

=> Agreed

R2-1817232 Clarification of incorrect message sequence in SN initiated SN change Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips CR Rel-15 37.340 15.3.0 0060 1 F NR_newRAT-Core R2-1814385

- DOCOMO do not agree with the CR as the procedures can be performed in any order. This is just an example. Ericsson agreed
- Nokia think the original sequence as the RRC procedure can only be after the Xn procedure is done. ZTE think the RRC procedure may not need to wait for the XN but could happen in parallel

=> Not agreed

R2-1817233 Section on UE capability retrieval in MR-DC Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips CR Rel-15 37.340 15.3.0 0082 - F NR_newRAT-Core

=> Offline discussion to ensure that it is aligned with the stage 3

=> Revised in R2-1818831 (Offline discussion 15)

R2-1818831 Section on UE capability retrieval in MR-DC Nokia, Nokia Shanghai Bell, ZTE Corporation, Sanechips CR Rel-15 37.340 15.3.0 0082 1 F NR_newRAT-Core

✉ **[104#01][NR] UE capability retrieval in MR-DC stage (Nokia)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

R2-1817534 Corrections on RRC transfer procedure in EN-DC Ericsson, ZTE Corporation, Sanechips CR Rel-15 37.340 15.3.0 0084 - F NR_newRAT-Core

=> Add that the message can also be used for the RLC failure report

=> Revised in R2-1818832 (Offline discussion 16)

R2-1818832 Corrections on RRC transfer procedure in EN-DC Ericsson, ZTE Corporation, Sanechips CR Rel-15 37.340 15.3.0 0084 1 F NR_newRAT-Core

=> Correct the tdoc number in the coversheet

=> Agreed in R2-1819066

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R2-1817595 Correction of SN Initiated SN Modification procedure for Measurement Gap Ericsson CR Rel-15 37.340 15.3.0 0085 - F NR_newRAT-Core
=> R2-1818588

R2-1818588 Correction of SN Initiated SN Modification procedure for Measurement Gap Ericsson CR Rel-15 37.340 15.3.0 0085 - F NR_newRAT-Core
=> Can conclude offline whether to change the wording so the use cases are just 'e.g.' and to avoid future changes in case of new uses agreed by RAN3
=> Revised in R2-1818833 (Offline discussion 17)

R2-1818833 Correction of SN Initiated SN Modification procedure for Measurement Gap Ericsson, Rapporteur (ZTE Corporation) CR Rel-15 37.340 15.3.0 0085 2 F NR_newRAT-Core
=> Agreed

Stage 2 description improvements" - not discussed with rapporteur

R2-1817020 Move bear type change table to normative text vivo CR Rel-15 37.340 15.3.0 0081 - F NR_newRAT-Core

R2-1817377 Introduction of IDC mechanism for EN-DC operation Qualcomm Incorporated CR Rel-15 37.340 15.3.0 0059 1 F NR_newRAT-Core R2-1814232

10.2.3 Positioning

Corrections to both the stage 2 and stage 3 aspects related to positioning.

10.2.3.1 In principle agreed CR

R2-1816738 SFN offset for OTDOA Intel Corporation, Nokia CR Rel-15 36.355 15.1.0 0229 2 F NR_newRAT-Core R2-1815657

R2-1818823 SFN offset for OTDOA Intel Corporation, Nokia CR Rel-15 36.355 15.1.0 0229 2 F NR_newRAT-Core R2-1816738
⇨ Agreed

10.2.3.2 Other

R2-1817897 Addition of RTK Assistance Data Qualcomm Incorporated CR Rel-15 38.305 15.1.0 0006 - F NR_newRAT-Core

Nokia think we still don't have broadcast AD support in NR and understand that we could only support dedicated delivery of AD in Rel-15. Qualcomm confirm this and the broadcast sections have not been copied. Nokia wonder if we should introduce HA GNSS methods in Rel-16 along with broadcast support.
Qualcomm think broadcast should be supported in Rel-16, but for Rel-15 this proposal is just to align stage 2. You could use the RTK assistance data point-to-point in Rel-15.
ESA support the CR; it's confusing if RTK is supported in stage 3 but not stage 2.
Nokia would have a preference to introduce a fully self-contained feature including broadcast support. Chair thinks the functionality is already there in stage 3 and this is just alignment.
Intel are fine to have this in Rel-15 and we can discuss broadcast in Rel-16. But we need to have an agreement that we support the RTK dedicated signalling in NR.
ESA think the dedicated signalling is already there. Intel agree the signalling is there but we never took a decision on whether NR can use it.
Ericsson ask if it means that NR products would need to support the dedicated signalling in Rel-15. Chair understands the protocol support is there but it is not mandatory on devices (or servers).
Intel wonder from the device perspective, if the device indicates support of RTK in LPP would it apply independent of the access type? Qualcomm understand yes, that LPP feature support is independent of the RAT. Intel think we might need to introduce additional signalling to distinguish support of broadcast in Rel-16, in case a device supports broadcast in LTE but not in NR.

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Nokia wonder if the carrier phase measurement is in the RAN1 spec for NR. Qualcomm think probably not.
Nokia suggest a note in the spec saying broadcast is not supported in this release. Chair wonders where we would put the note since there is no broadcast content in 38.305 now. Qualcomm think we don't normally specify what is not supported, so a note is not necessary.
Nokia checked 38.215 and found the GNSS carrier phase measurements are there. So that aspect is not a problem.
Intel don't have a strong opinion on the note but would like to capture an agreement.

> ⇨ In NR Rel-15, we support dedicated signalling of RTK assistance data, but not broadcast. No stage 3 impact for this agreement.

Intel wonder what the consequence is of not having broadcast signalling. Does it mean the UE cannot support standalone positioning? Qualcomm think the only impact is that we have to deliver the AD point to point with some loss of efficiency. The feature as such does not require broadcast.
Nokia think standalone would typically be best-effort GNSS rather than HA GNSS.
⇨ Agreed

R2-1818177 Capture use of motion information from motion sensors Nokia, Nokia Shanghai Bell CR Rel-15 38.305 15.1.0 0007 - F NR_newRAT-Core Revised
R2-1818500 Capture use of motion information from motion sensors Nokia, Nokia Shanghai Bell CR Rel-15 38.305 15.1.0 0007 1 F NR_newRAT-Core R2-1818177

Nokia think we should follow the decision for 36.305 and take a limited amount of detail into the stage 2.
Ericsson wonder why we don't have a section for motion sensors specifically. Qualcomm understand that the stage 2 introduction of sensors was originally somewhat misaligned with the stage 3, e.g. it introduces barometric pressure sensors only instead of a generic sensor method. There were previous efforts to align the stage 2 but not successful, and they think it's overkill to try to force an alignment now. NextNav have the same understanding: It would be too disruptive to force the stage 2 to align exactly with the stage 3.
On this CR, NextNav wonder if the table changes are aligned with 36.305. They also wonder if it should be the LTE WI code since the stage 3 was introduced in LTE.
Nokia confirm the table is supposed to align with 36.305. They think this is an NR change and we should use the NR WI. Chair thinks if we used the LTE WI we would have to change the WID to have impact on 38.305. Intel agree it should be the NR WI.
Sony think we shouldn't give up on the alignment effort for stage 2 on sensors. Nokia are worried about the need to change the existing sections which other specs may refer to; it would be a disruptive change and may not be needed.
NextNav think in the measurement column "E-UTRA" has been introduced. Nokia clarify this is because we have only LTE measurements in NR Rel-15.
⇨ Agreed

R2-1817632 Introduction of motion sensors in 38.305 Ericsson, Sony CR Rel-15 38.305 15.1.0 0004 - B NR_newRAT-Core

Ericsson would like to capture the language "for downlink timing measurements" in the table. Nokia are not sure if it's needed. Qualcomm agree it's not necessary and think it's clear from the OTDOA report itself.
⇨ Noted

R2-1817718 LTE Cell information request via NR E-CID Ericsson discussion Rel-15

Qualcomm wonder what has changed relative to previous meeting discussions on this subject. Ericsson think we treated the proposal and left the door open for a discussion paper.
Ericsson's concern is that the UE in NR will not necessarily have measurements of the LTE cell.
Nokia think we previously discussed the UE reporting a cell for which it knows the timing information, and this is more of a request for retrieval of timing for a database at the

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positioning server. They are not in favour of doing this for Rel-15, particularly using E-CID for this specialised purpose; if this kind of transfer is needed it would probably have to be reported over RRC to the gNB and transferred as part of the OTDOA information.

Qualcomm think no LS to RAN4 is needed because RAN4 already told us not to use measurement gaps for E-CID, and we shouldn't override the RAN4 decision. They think this proposal is an optimisation; we have the SFN offset in the assistance data, and if someone wants measurement gaps for E-CID they should take the proposal to RAN4.

⇨ Noted

Proposal 1 Introduce an LTE cell information request to LPP E-CID and an associated UE capability.
Proposal 2 Agree to the LPP CR in [2].
Proposal 3 Agree to the stage-2 CR in [3].
Proposal 4 Send an LS to RAN4 based on the draft LS [4] about the agreement

R2-1817719 Request to retrieve LTE cell information including SFN as part of the E-CID procedure
Ericsson CR Rel-15 36.355 15.1.0 0233 - B NR_newRAT-Core

R2-1817720 Supporting LTE cell information requestion in LPP E-CID for NA SA devices Ericsson
CR Rel-15 38.305 15.1.0 0005 - B NR_newRAT-Core

R2-1817721 draft LS on introduction of an LTE cell information request as part of LPP E-CID Ericsson
LS out Rel-15 NR_newRAT-Core To:RAN4

10.2.4 Other

Including contributions related to SA5 work on L2 measurements.
RAN#80 agreed the Rel-16 work programme. Do not submit any documents that fall within the scope of the Rel-16 WIs/SIs.

MCC CR (Agreed in RAN2#103 but not submitted to RAN#81 by mistake)

R2-1816555 ECN support in NR MCC CR Rel-15 38.300 15.3.1 0035 4 B
NR_newRAT-Core R2-1813223
=> Agreed

L2 measurements

Comeback to treat L2 measurements

R2-1818007 Consideration on measurements defined in TS 28.552 Huawei, Hisilicon discussion
Rel-15 NR_newRAT-Core

R2-1818008 Considerations on measurements for different network deployment options Huawei, Hisilicon
discussion Rel-15 NR_newRAT-Core

R2-1818009 Draft LS on measurements for different network deployment options Huawei, Hisilicon
LS out Rel-15 NR_newRAT-Core To:SA5

36.300 CR

R2-1818441 Removing NG-RAN specific statements Ericsson, Nokia, Nokia Shanghai Bell CR Rel-15 36.300 15.3.0 1209 - F NR_newRAT-Core
=> WI code should be eLTE
=> Further comments can be provided offline
=> Revised on R2-1818835 (Offline discussion 18)

R2-1818835 Removing NG-RAN specific statements Ericsson, Nokia, Nokia Shanghai Bell CR Rel-15 36.300 15.3.0 1209 1 F NR_newRAT-Core
=> Agreed

Stage 3 topics to be discussed in common CP/UP session

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R2-1816750 Security risk from multiple termination point changes of RLC UM bearers Intel Corporation discussion Rel-15 NR_newRAT-Core
- Huawei wonder if the same issue can occur for AM DRB due to a DRB that is released and then later added. Think we do not need to cover if in the CR for this case as other cases are also not covered

=> No specification changes will be considered in Rel-15 to address the security issue from multiple termination point changes for RLC-UM bearers. It is left to network implementation to ensure security requirements are not violated.

R2-1816725 Avoiding security risk for RLC UM bearers during termination point change Intel Corporation CR Rel-15 38.331 15.3.0 0570 - F NR_newRAT-Core
- ZTE think the same case also exists of AM-DRBs. Intel explain with AM DRBs the count is maintained so there is not an issue.

=> To be discussed offline whether anything needs to be captured in the spec
- Update from offline: The CR now seems agreeable

=> Agreed

R2-1818347 CR to 38.331 on SSB terminology harmonization Ericsson CR Rel-15 38.331 15.3.0 0757 - F NR_newRAT-Core
- ZTE think the beam definition is not needed. Suggest to discuss with the discussion on the stage 2 CRs.
- Qualcomm also think the beam definition is not needed.
- Huawei also have the same view

=> Not agreed

R2-1818348 CR to 38.321 on SSB terminology harmonization Ericsson CR Rel-15 38.321 15.3.0 0585 - F NR_newRAT-Core

=> Not agreed

R2-1818585 De-activation of security for DRBs Intel Corporation Discussion

=> Discuss offline whether we want to modify stage 3 specs to support the previous RAN2 agreement to support security (DRB IP and ciphering) update during HO (Offline discussion 19)

R2-1819050 [offline discussion 019] De-activation of security for DRBs Intel Corporation report

✉ **[104#30][NR] De-activation of security for DRBs (Intel)**
Establish the requirements to deactivate security and determine the impacts to RRC and PDCP specs so that a decision can be made at the next meeting on whether to support this in R15.
Intended outcome: Report to next meeting
Deadline: Monday 2019-02-07

10.3 Stage 3 user plane

Documents in this agenda item will be handled in the NR user plane break out session

Essential functional corrections will be prioritized. For clarity and consistency enhancements, please pre-discuss and seek support with the TS rapporteur.

10.3.1 MAC

R2-1818927 LS on CORESET 0 R1
- Chair then think this need to be discussed in the CP session for a decision and then we can decide on TP for MAC.

⇒ **Noted**

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10.3.1.0 Agreed in principle CRs

R2-1816300 Msg3 handling for swtiching from CBRA to CFRA Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0303 4 F NR_newRAT-Core R2-1815872
- Samsung indicates there is a change, to be discussed later.

Comeback

R2-1818753 Msg3 handling for swtiching from CBRA to CFRA Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0303 5 F NR_newRAT-Core R2-1815872

⇒ **In the new line, change "on" to "upon".**

⇒ **Revised in R2-1818786. Which is agreed unseen**

R2-1816908 CR on bwp-InactivityTimer when PDCCH indicating BWP switching is received OPPO, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0406 2 F NR_newRAT-Core R2-1815640
- Oppo indicate that one more "DL" was introduced based on a comment from Nokia. LG think this is not needed.
- Nokia think the first "DL" was intended also the last meeting but missed. LG think we shouldn't have the first DL

Comeback (107), Oppo

⇒ **Agreed**

R2-1816910 CR on RRC triggered BWP switching while RACH is ongoing OPPO, Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0409 2 F NR_newRAT-Core R2-1815638

⇒ **agreed**

R2-1817275 Preamble power ramping Fujitsu CR Rel-15 38.321 15.3.0 0399 5 F NR_newRAT-Core R2-1815986

⇒ **agreed**

R2-1817441 Correction of BWP switching when SUL is configured Huawei, HiSilicon, ZTE, Sanechips CR Rel-15 38.321 15.3.0 0452 3 F NR_newRAT-Core R2-1815871

⇒ **agreed**

R2-1817602 Correction to BFR procedure Nokia, CATT, Huawei, HiSilicon, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0488 2 F NR_newRAT R2-1815870
- Nokia indicated there is an update.

⇒ **agreed**

R2-1817694 Corrections on CFRA BFR termination InterDigital CR Rel-15 38.321 15.3.0 0432 2 F NR_newRAT-Core R2-1815643

⇒ **agreed**

R2-1818429 Introduction of Data Inactivity Timer Ericsson CR Rel-15 38.321 15.3.0 0475 2 F NR_newRAT-Core R2-1815636

⇒ **agreed**

R2-1818430 Correction for Reconfiguration of CFRA during ongoing RA Ericsson CR Rel-15 38.321 15.3.0 0471 2 F NR_newRAT-Core R2-1815644
- Vivo think we should discuss this based on another paper first
- Vivo objects to this CR and do not want to agree to it. To be agreed we'd need to take all possible parameters into account.

⇒ **Agreed**

Withdrawn

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R2-1816257 bwp-InactivityTimer when PDCCH indicating BWP switching is received OPPO CR Rel-15 38.321 15.3.0 0528 - F NR_newRAT-Core Withdrawn

R2-1816779 Corrections on CFRA BFR termination InterDigital CR Rel-15 38.321 15.3.0 0538 - F NR_newRAT-Core Withdrawn

10.3.1.1 MAC general aspects

Corrections related to BWP and SUL and general issues

General

R2-1817014 Miscellaneous corrections Samsung CR Rel-15 38.321 15.3.0 0411 2 F NR_newRAT-Core R2-1813638

- Samsung indicate that there has been changes since endorsement, but this is clearly indicated by overstrike.

Offline (108), revision in R2-1818749 (Samsung)

R2-1818749 Miscellaneous corrections Samsung CR Rel-15 38.321 15.3.0 0411 3 F NR_newRAT-Core R2-1813638

⇒ **agreed**

R2-1818434 Clarification for CCCH1 Ericsson, Samsung CR Rel-15 38.321 15.3.0 0587 - F NR_newRAT-Core

- LG think we don't need this change.

⇒ **agreed**

R2-1817334 Clarification on BWP ID in MAC CE Spreadtrum Communications CR Rel-15 38.321 15.3.0 0547 - F NR_newRAT-Core

- Ericsson think we don't' need this. It is clear in the field description in RRC, and DCI is 0,1 or 2 bits so there is a difference. Docomo agrees with Ericsson.
- LG think this CR is correct. Huawei agree as well. Vivo and Samsung also think the CR is correct.

Offline (115), discuss if needed, revise if needed in R2-1818752 (Spreadtrum)

R2-1818752 Clarification on BWP ID in MAC CE Spreadtrum Communications CR Rel-15 38.321 15.3.0 0547 1 F NR_newRAT-Core

- Revision is wrong on the cover sheet
- Ericsson think it is related to an offline in the CP session. Spreadtrum clarifies that the offline has not concluded but think this CR is needed anyway.
- Huawei think anyway this is needed.
- Oppo clarifies that the RRC Field description will not be updated

✉ **[104#24][NR UP] Clarification on BWP ID in MAC CE (Spreadtrum)**
Intended outcome: Agreed CR, if MAC CR is determined to be needed. Take into account progress in CP session
Deadline: Monday 2018-11-26

BWP inactivity timer

R2-1818110 Discussion on handling of bwp-inactivityTimer upon BWP switching LG Electronics Inc. discussion NR_newRAT-Core

R2-1818111 Correction on handling of bwp-inactivityTimer upon BWP switching LG Electronics Inc. CR Rel-15 38.321 15.3.0 0570 - F NR_newRAT-Core

R2-1816256 bwp-InactivityTimer behaviour for RRC based BWP switching case OPPO CR Rel-15 38.321 15.3.0 0527 - F NR_newRAT-Core

DISC on the above tdocs

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- QC, Nokia, Ericsson, Lenovo, Huawei think we don't need this.

⇒ **After RRC triggered BWP switch, the network can schedule the UE in order to start the BWP inactivity timer, no additional MAC behaviour is needed**

R2-1817066 Remaining Considerations on Behavior of bwp-InactiveTimer ZTE, Sanechips discussion NR_newRAT-Core R2-1814038

R2-1817067 CR to 38.321 for bwp-Inactivetimer ZTE, Sanechips CR Rel-15 38.321 15.3.0 0433 1 F NR_newRAT-Core R2-1814039

- Oppo wonders if the network is aware of this situation. ZTE think the intention is to start the timer.
- LG think that this is not needed. Huawei agrees and think it introduces desynch between UE and network.
- CATT support this.
- ZTE want to clarify the UE behaviour.

Offline (116), convince others there is an issue to resolve (ZTE)

⇒ **Revised**

R2-1818767 CR to 38.321 for bwp-Inactivetimer ZTE, Sanechips CR Rel-15 38.321 15.3.0 0433 2 F NR_newRAT-Core R2-1814039

- LG still think this is not a problem. Oppo agrees.
- CATT think if we don't do this, the timer is stopped in the UE but continues in the network end, and this the network think the UE has switched BWP while the UE has not.
- Nokia think this is rare, and usually this would not happen, as the UE normally would have SR resources.

⇒ **Not pursued**

R2-1816255 Clarification on stopping bwp-InactivityTimer upon RACH initilization OPPO CR Rel-15 38.321 15.3.0 0526 - F NR_newRAT-Core

- Ericsson don't' support this.
- Huawei think this makes it more clear and support the CR.
- Samsung think that the order doesn't make any difference. LG agrees.

⇒ **Not pursued**

TCI state

R2-1817832 Clarification on the TCI state of PDCCH at handover Intel Corporation CR Rel-15 38.321 15.3.0 0568 - F NR_newRAT-Core

- ASUS think the ref should be 38.213.
- LG think this should be in R1 TS. Nokia think this is obvious, as TCI states are cell specific. Ericsson agrees with Nokia.
- Intel think this is not clear in R1 spec, and think something similar is already there for PDSCH.

⇒ **RAN2 understands that TCI states are cell specific, and thus indicated TCI state for PDCCH cannot be used after handover.**

⇒ **Not pursued**

BWP switch delay

R2-1816252 The impacts due to BWP switch delay OPPO, CMCC, Spreadtrum, Huawei, HiSilicon discussion

- LG think the BWP switch delay can be variable.
- CATT think there is no problem and we can even use all configuration.
- Chair comment: In this release, the network may need to avoid using some configurations, e.g. the small values of drx-inactivity timer and bwp-inactivity timer.

⇒ **Noted**

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R2-1816253 DRX inactivity timer considering BWP switching delay OPPO, Qualcomm, CMCC, Spreadtrum, Huawei, HiSilicon, MediaTek Inc. CR Rel-15 38.321 15.3.0 0524 - F NR_newRAT-Core

R2-1816254 bwp-InactivityTimer considering BWP switching delay OPPO, CMCC, Spreadtrum, Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0525 - F NR_newRAT-Core

R2-1816250 [Draft] LS on the BWP switch delay OPPO LS out To:RAN4

SMTC

R2-1817023 Further discussion on SMTC operation in MAC vivo discussion Rel-15 NR_newRAT-Core

- Nokia think no change from previous meeting.

⇒ **Noted**

R2-1817025 Measurement gap configuration vivo CR Rel-15 38.331 15.3.0 0590 - F NR_newRAT-Core

R2-1817024 SMTC operation in MAC vivo CR Rel-15 38.321 15.3.0 0542 - F NR_newRAT-Core

Optimization

R2-1817022 Continue RACH without RACH reconfiguration after RRC BWP switching vivo CR Rel-15 38.321 15.3.0 0541 - F NR_newRAT-Core

Text Enhancements

R2-1817021 Clean up on rsrp-ThresholdSSB and rsrp-ThresholdCSI-RS vivo CR Rel-15 38.321 15.3.0 0540 - F NR_newRAT-Core

- Ericsson think this is not needed, and this shows that the descriptions are not needed.
- Ericsson thnk that if agreed, the interoperability statement need to be softer.

⇒ **Contents agreed, merged into the Rapporteur CR**

R2-1817443 Corrections on the condition of SUL selection Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0550 - F NR_newRAT-Core

- Samsung proposes to just add “or RRC” in the first bullet in the rapporteur CR. Huawei would be ok to merge.
- After more check rapporteur think nothing is needed.

⇒ **Not pursued**

R2-1818146 Ambiguity in starting instance of MAC timer for different SCS between UL and DL Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818147 Clarification on the starting instance of the MAC timers Huawei, HiSilicon, CR Rel-15 38.321 15.3.0 0572 - F NR_newRAT-Core

R2-1818170 Clarification on the MAC timer vivo discussion Rel-15 38.321 NR_newRAT-Core R2-1814195

R2-1818171 Clarification on the MAC timer vivo CR Rel-15 38.321 15.3.0 0438 1 F NR_newRAT-Core R2-1814196

10.3.1.2 Random access

Corrections related to random access procedure, except multi-beam aspects

MSG3 handling CBRA CFRA

R2-1816450 Msg3 handling for switching from CBRA to CFRA_Updated Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0534 - F NR_newRAT-Core

- Samsung explains that this covers more than the IPA cr fom last meeting.
- Nokia support resolution to the first issue, but think the retransmission is not a valid case. Lenovo agrees. Intel Same view. LG as well

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- CATT wonders why the network would schedule different grant size. Nokia think the network cannot know if this is a first or later attempt. Mediatek also has some doubts. Oppo as well, and think this could be handled with a Note.
- Oppo think the second issue is valid. Nokia think the gNB will not schedule a retransmission grant in the BFR search space.
- Ericsson propose to address the first case but not the second.
- Mediatek think we need a Note or something to fully cover the CBRA to CBRA case.

⇒ **Address the first issue, but not the second one.**

⇒ **Merge this change into the IPA CR, revision of that one in R2-1818753**

R2-1818373 Restricting the Msg3 rebuilding to CBRA to CFRA switching Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0586 - F NR_newRAT

- Huawei found a typo in the CR so it need to be update.

⇒ **Not pursued**

R2-1818152 Handling of Msg3 size allocated by RAR mismatch during CBRA procedureHuawei, HiSilicon CR Rel-15 38.321 15.3.0 0575 - F NR_newRAT-Core

- Ericsson wonders if this conflicts with the current re-building. Nokia think we can have the note.

⇒ **Agreed**

R2-1816247 msg3 handling for switching from CBRA to CFRA OPPO discussion

R2-1816248 msg3 handling for switching from CBRA to CFRA - retransmission issue OPPO CR Rel-15 38.321 15.3.0 0521 - F NR_newRAT-Core

R2-1818150 Unnecessary Msg3 rebuilding in case of a retransmission request Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818237 Improvement to Msg3 handling for switching between CBRA and CFRA Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0580 - F NR_newRAT-Core

R2-1818174 Bj impacts due to the Msg3 MAC PDU rebuilding vivo discussion Rel-15 38.321 NR_newRAT-Core

R2-1818175 Bj impacts due to the Msg3 MAC PDU rebuilding vivo CR Rel-15 38.321 15.3.0 0576 - F NR_newRAT-Core

RSRP

R2-1816309 Measurement to select UL Carrier for Random Access_Option 1 Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0529 - F NR_newRAT-Core

R2-1816310 Measurement to select UL Carrier for Random Access_Option 2 Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0530 - F NR_newRAT-Core

DISCUSSION

- QC think the current text is ok and the intention with it is to leave it to UE implementation. LG and Huawei agrees. IDT also agrees. Ericsson also agrees.
- CMCC would like to check this and postpone

⇒ **2 CRs above postponed**

RACH Resource selection

R2-1817444 Corrections for alignments in RACH resource selection Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0551 - F NR_newRAT-Core

- LG and Ericsson think that the first change is not needed.
- Samsung think that for the second change, SSB resources QCL'd should be added.
- Ericsson wonders if there is a backwards compatibility issue with the second change. Huawei just want to align.

⇒ **Agree to have the second change with the addition of SSB resources QCL'd**

Offline (117) Revised in R2-1818754 (Huawei)

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R2-1818754 Corrections for alignments in RACH resource selection Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0551 1 F NR_newRAT-Core

⇒ **Agreed**

R2-1817446 Correction on the RO selection for PDCCH order triggered RA Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0553 - F NR_newRAT-Core

- LG agrees with the intention but would like to instead have a generic piece of text to specify which specific Mask index shall be used.
- Samsung think the other specifications can change instead regarding the consistent naming.
- CATT agrees that naming should be the same regardless how mask index is indicated, but still a text change is needed in the paragraph.
- QC has a concern that there may be a backwards compatibility problem. Huawei think that this is not a behaviour change.
- Nokia think we might change in the table in the annex.

Offline (118), revised in R2-1818755 (Huawei)

R2-1818755 Correction on the RO selection for PDCCH order triggered RA Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0553 1 F NR_newRAT-Core

⇒ **Agreed**

R2-1818154 Clarification for contention-free RA resources LG Electronics Inc. discussion NR_newRAT-Core R2-1815160

⇒ **Noted**

R2-1818155 CR on contention-free RA resources in 38.321 LG Electronics Inc. CR Rel-15 38.321 15.3.0 0495 1 F NR_newRAT-Core R2-1815177

- Huawei don't think SI request is CFRA. Samsung and Ericsson agrees.
- CATT think we could have a note to clarify this. Lenovo think this is obvious.
- LG think that if SI-request is considered to be CBRA, UE would apply backoff time, which should not be considered for SI-request.
- Ericsson think it is clear in the RRC TS which resources are CFRA.

⇒ **SI request resources are not considered to be contention free resources**

⇒ **Not pursued**

RACH Response

R2-1817447 Correction on stopping ra-ResponseWindow Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0554 - F NR_newRAT-Core

- LG think this is needed.
- Ericsson and Nokia think this is not needed.
- IDT think that the UE stops monitoring the PDCCH after RACH completion. IDT think that if we fix this, we could shorten the text.
- CATT think the text can be shortened.
- Chair: It seems there is no consequences of approving or non-approving the CR.

⇒ **Not pursued**

RA prioritization

R2-1817603 Correction to RA prioritization Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0486 1 F NR_newRAT R2-1814939
=> revised to R2-1818851

R2-1818851 Correction to RA prioritization Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0486 2 F NR_newRAT R2-1814939

- LG agrees with the intention but alignment with RRC information element names are needed.
- CATT pointed out an editorial issue.
- Samsung think the text could be simplified. Huawei agrees.

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- Ericsson agrees there is a problem, and think that for UEs not implementing this, there might be a backwards compatibility problem and wonders if we need a capability. Nokia don't see any interoperability problems. The impact is only power ramping and backoff.

Offline (119), revision in R2-1818756 (Nokia)

R2-1818756 Correction to RA prioritization Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0486 3 F NR_newRAT R2-1814939

- Nokia indicate that there is an overlapping CR.

⇒ **Agreed**

R2-1818437 Clarification on prioritized Random Access Ericsson CR Rel-15 38.321 15.3.0 0588 - F NR_newRAT-Core

⇒ **Contents agreed, merged with the rapporteur CR**

Text Enhancements

R2-1816354 Msg3 grant overlapping with another UL grant CATT discussion Rel-15 NR_newRAT-Core R2-1813851

⇒ **Noted**

xR2-1818144 Concurrent configured grant and UL grant received in RAR Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

⇒ **Noted**

R2-1818145 Handling of overlapped configured grant and UL grant received in RAR Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0505 1 F NR_newRAT-Core R2-1815301

- Ericsson think we should consider softening the interoperability statement.

⇒ **Revised in R2-1818792, cover sheet only, which is agreed unseen.**

DISCUSSION on the tdocs above

- Nokia think we cannot reuse the LTE note as we have the CFRA CBRA switch. We can leave it as it is.
- QC support the CATT note and think this should be left to UE implementation. Samsung as well.
- LG agree with NOTE3 in CATT proposal but not NOTE4, which need to be discussed.
- Ericsson think we don't need any change if this is for UE implementation.

⇒ **NOTE 3 in the CATT CR is agreed**

Offline (120), to discuss the rest, based on the CATT CR, revision in R2-1818757 (CATT)

R2-1816355 Correction for Msg3 grant overlapping with another UL grant CATT CR Rel-15 38.321 15.3.0 0421 1 F NR_newRAT-Core R2-1813852

⇒ **Revised**

R2-1818757 Correction for Msg3 grant overlapping with another UL grant CATT CR Rel-15 38.321 15.3.0 0421 2 F NR_newRAT-Core R2-1813852

- Ericsson think that the interoperability statement should be softer.

⇒ **Revised in R2-1818791, cover sheet only, which is agreed unseen.**

R2-1817445 Correction on the RA triggering with ongoing RA Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0552 - F NR_newRAT-Core

- Samsung think the change can be somewhat simplified.

⇒ **Merged with the rapporteur CR**

R2-1818151 Collision between a RAR grant and another one for a scheduled transmission Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0574 - F NR_newRAT-Core

R2-1816744 Correction on CBRA fallback during RACH Intel Corporation CR Rel-15 38.321 15.3.0 0537 - F NR_newRAT-Core

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R2-1817106 Corrections on random access preambles for SSBs Google Inc. CR Rel-15 38.321 15.3.0 0446 1 F NR_newRAT-Core R2-1814502

R2-1817332 Corrections on PRACH configuration index Spreadtrum Communications CR Rel-15 38.321 15.3.0 0546 - F NR_newRAT-Core

10.3.1.3 Multi-beam operation

Corrections related to multi-beam operation, beam failure detection, beam failure recovery.

RACH resource handling

R2-1816303 RA Preamble Selection Procedure Samsung Electronics Co., Ltd CR Rel-15 38.321 15.3.0 0413 1 F NR_newRAT-Core R2-1813683

- Ericsson think that there is no error to correct.
- LG support this but are not sure the first part is needed.
- Panasonic wonders if the branch will never be reached. Samsung clarifies.
- Huawei support.
- Google support this

⇒ **For the second change, change the indentation level**

⇒ **Revised in R2-1818758, which is agreed unseen**

R2-1816681 BFR-CFRA dedicated RACH resource handling upon TAT expiry Apple, CATT, Intel Corporation, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 38.321 15.3.0 0536 - F NR_newRAT-Core

R2-1816682 BFR-CFRA dedicated RACH resource handling upon TAT expiry Apple, CATT, Intel Corporation, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0565 - F NR_newRAT-Core

DISCUSSION on the 2 tdocs above

- LG think there is no gain, and do not support.
- Vivo wonders if Beam monitoring stops.
- ASUS support this, and think that anyway TA need to be recovered by CBRA. IDT and Ericsson think that TA can be recovered by TA MAC CE. Vivo think this is not possible as the TA value in MAC CE is shorter. Samsung think Ericsson is correct.
- Panasonic think resources could be released but not based on TAT expiry. Panasonic do not support.
- Samsung think that in any case, the first MAC change is not needed. QC think the first change is needed and impacts resource efficiency for the gNB.
- Lenovo think the CFRA RACH is transmitted with TA 0 in any case.
- Mediatek think this is an optimization.
- Fujitsu wonders if this is backwards compatible.
- Ericsson think that R1 chose to use RACH to allow UE to not be time aligned.

⇒ **2 CRs above Not pursued**

Measurement Scaling

R2-1816356 Correction on the scaling between CSI-RS and SSB for BFR CATT, Ericsson CR Rel-15 38.321 15.3.0 0423 1 F NR_newRAT-Core R2-1813858

- Huawei think R1 need to change in their specifications.
- CATT think that the intention in R1 is that scaling is indeed done.

⇒ **Agreed**

R2-1818112 Discussion on scaling the RSRP threshold for the beam failure recovery LG Electronics Inc. discussion NR_newRAT-Core

⇒ **Noted**

R2-1818113 Correction on scaling the RSRP threshold for the beam failure recovery LG Electronics Inc. CR Rel-15 38.321 15.3.0 0571 - F NR_newRAT-Core

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⇒ **Not pursued**

DISCUSSION on the above docs
- Vivo think this is not aligned with R1.

Allow time for checking offline.
- LG think we can agree the CATT CR. Vivo agrees
- CATT think we can capture also in the Chair notes that R2 assumes that measurements used in MAC are scaled in L1

⇒ **R2 assumes that measurements used in MAC are scaled in L1, if/when scaling is needed.**

Parameters

R2-1817448 Corrections on the BFR parameters Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0555 - F NR_newRAT-Core
- LG think the first change isn't needed it is clear in the procedures. And the second change is covered by another CR. Ericsson agrees with LG.

⇒ **Not pursued**

Text enhancements

R2-1818188 Correction on RA procedure Xiaomi CommunicationsCR Rel-15 38.321 15.3.0 0577 - F NR_newRAT-Core
- Samsung proposes instead to replace "RRC" with "RachConfigDedicated"

⇒ **Samsung's modified proposal is agreed, merged with the rapporteur CR**

R2-1818195 Correction on RA resource selection for beam failure recovery LG Electronics Inc. CR Rel-15 38.321 15.3.0 0579 - F NR_newRAT-Core
- Samsung think we don't need this in our spec but refer to R1 spec.

⇒ **Not pursued**

R2-1818282 Correction to SR procedure under beam failure Qualcomm Inc CR Rel-15 38.321 15.3.0 0583 - F NR_newRAT-Core
- CATT think this is not correct

⇒ **Not pursued**

Withdrawn:

R2-1818115 Correction on RA resource selection for beam failure recovery LG Electronics Inc. CR Rel-15 38.321 15.3.0 0514 1 F NR_newRAT-Core R2-1815457 Withdrawn

Reconfiguration

R2-1818114 Discussion on reconfiguration of CORESET-BFR during ongoing RA procedure for beam failure recovery LG Electronics Inc. discussion NR_newRAT-Core

R2-1818172 Configuration change of BFR vivo discussion Rel-15 38.321 NR_newRAT-Core R2-1814197
- LG think still that the Vivo CR is not needed.

⇒ **Noted**

R2-1818173 Configuration change of BFR vivo CR Rel-15 38.321 15.3.0 0439 1 F NR_newRAT-Core R2-1814198
- LG think that the coreset configuration is not the BFR coreset, and the TCI state do not refer to Coreset BFR, and the CR is not correct. Nokia agrees.

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⇒ **Not pursued**

10.3.1.4 PHR

Corrections related to PHR

General

R2-1817493 Correction on Dual Connectivity MAC CE Nokia, Nokia Shanghai Bell, NTT DOCOMO, INC. CR Rel-15 36.321 15.3.0 1393 - F NR_newRAT-Core

- Ericsson wonders why the reference to ulConfiguration could be removed. Nokia think it should be clear in the R1 spec.

⇒ **Agreed**

R2-1816357 Further clarification on PH type determination CATT CR Rel-15 38.321 15.3.0 0531 - F NR_newRAT-Core

- Lenovo think the old text was clear as it refers to PDCCH. Ericsson agrees with Lenovo.

⇒ **Not pursued**

R2-1817566 Correction on PHR for SUL Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0565 - F NR_newRAT-Core

- Samsung think type1 is only for SRS-only carrier and the current text is correct, Ericsson and Lenovo agrees. Huawei think that in the SUL case if there is only SRS on SUL, type 3 should be reported.
- Nokia think indeed R1 has agreed the scenario by Huawei, but this agreement is wrong. Samsung has a different understanding and think the R1 agreement is just for Scell, Lenovo think that the R1 agreement was just about real and virtual for the case of single transmission. Huawei think the LS from R1 just indicates serving cell
- Ericsson think the change is non-backwards compatible and would not like to agree to this anyway.

Check offline (109) (Huawei & others)

- Huawei reports that there was no reply to the discussion.
- Huawei think we need this as the scenario exist. Vivo agrees.
- LG understands that the proposal principally is correct but would not like to do this in Rel-15 due to backwards compatibility. Ericsson agrees we can postpone to Rel-16

⇒ **Postponed next release**

R2-1818440 Clarifications to PHR and SUL Ericsson CR Rel-15 38.321 15.3.0 0590 - F NR_newRAT-Core

- Samsung think this is clear in R1 specification now (after previous meeting) so no need to clarify in R2 TS.
- Ericsson think that in that case there should be a reference to R1 TS there.

⇒ **Add reference to R1 TS instead, in the MAC rapporteur CR**

⇒ **Not pursued**

R2-1818582 Correction to PHR procedures in dual-connectivity Qualcomm Inc. CR Rel-15 36.321 15.3.0 1404 - F NR_newRAT-Core

R2-1818583 Correction to PHR procedures in dual-connectivity Qualcomm Inc. CR Rel-15 38.321 15.3.0 0593 - F NR_newRAT-Core

DISC

- Ericsson wonders about the problem, e,g, if a PHR sent in LTE would then the LTE values be correct and same for NR. QC confirms that this is the case.
- QC and Ericsson think that indeed if there is no dynamic power sharing the other RAT ph value is not useful.

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- Nokia wonders if these CRs remove the possibility to report PH for other RAT also for UE that support dynamic power sharing. QC think yes
- LG think that the problem is reasonable and the solution is reasonable, but think such change should only be for ENDC.
- Intel don't think the change is needed for LTE side but would need to check for NR side.
- Nokia think that for pathloss trigger maybe this is reasonable but for the period trigger the UE should be able to report ..
- QC would like to fix this ASAP, and would be ok to have a UE capability

Offline (110) (qualcomm).

- QC indicate that the offline was successful.

R2-1818788 Correction to PHR procedures in dual-connectivity Qualcomm Inc. CR Rel-15 36.321 15.3.0 1404 2 F NR_newRAT-Core

R2-1818789 Correction to PHR procedures in dual-connectivity Qualcomm Inc. CR Rel-15 38.321 15.3.0 0593 2 F NR_newRAT-Core

- Nokia wonders if this is for NR-NR DC as well. QC think that this is the case as NR-NR DC only support FR1-FR2 combination.
- LG think this should be only for EN-DC, and prefers normative text.
- Intel think that we should add a new UE capability for NR side and think nothing is needed in LTE TS.
- Ericsson are OK with the CRs, but would like to check the cover sheet and proposes a short email discussion for that.
- Chair think we could agree the CRs and determine later if we need a UE capability or if the "may" is sufficient.
- LG wonders if omit means that the UE set the CI field to zero. Ericsson confirms
- LG proposes to change "other cell group" to 'other MAC entity"
- Ericsson think we need to fix the cover sheet
- QC think that the LTE change may involve change to R1 TS and suggest to send a LS. Huawei this we can comeback. Lenovo wonders what would be the impact in R1. QC indicate that the NR TS would be impacted.

⇒ **Change "other cell group" to 'other MAC entity"**

⇒ **Revised, agreed change + cover-sheet update, in R2-1818793 + 94**

Comeback main session.

Configured Grant

R2-1817494 PHR timing Nokia, Nokia Shanghai Bell, Ericsson, NTT DOCOMO, INC. discussion Rel-15 NR_newRAT-Core

DISCUSSION

- Convida agrees that option 2 doesn't work, but think that option 3 and option 1 works. Nokia think that option 1 doesn't giva a clue on the timing it PHR is reported on CG.
- Lenovo think option 3 puts a restriction on LCP processing, and should not be considered for CG. Intel agree with Lenovo. Huawei think that option 1 doesn't work, and would require skipping CG in some cases.
- LG prefer option 2.
- CATT think we don't need to have the UE report PHR for only CG and if there is both dynamic and Configured grant we'd use the dynamic grants.
- Nokia think that PHR reporting on CG is already in the TS. QC would also not like to have timing restrictions for CG. IDT think that a compromise could be that the UE doesn't have to report on CG but if it does, it has to be acc to specified timing.
- vivo think we don't need to change anything.
- convida also think that reporting on CG is not needed.
- Nokia think that the UE anyway need to be ready to change LCP result if the CG is overridden by a dynamic grant, so the timing should be no problem. Lenovo think that for CG it could be ok, but applicability to dynamic grant is problematic.
- Mediatek are ok with P3 but would prefer one mechanism.

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- LG think what is important is the PCmaxC field.
- Nokia and Lenovo think that L1 need the timing in order to determine PH type.
- LG think that R2 issue is the format, and that is it. Lenovo point out that the format is different dep on PH type.
- CATT think that if we just don't report on CG there is no problem. Intel and Convida also think it is not needed.
- Ericsson think it is important to receive PHR in CG. Nokia think the network is not aware of pathloss change so PHR is important in every grant. Huawei agrees.
- Nokia think that not reporting in CG is a big step from assumptions, e.g. based on LTE
- Huawei think that as a compromise could be to use configured grant but let R1 decide details on timing etc.
- Convida think that for CG we anyway don't do fast link adaptation with CG.
- IDT think that the UEs could be allowed to report in CG with specified timing and also allowed to not report in CG. Nokia think that if we go this way we need a UE capability and Nokia cannot accept to not have PHR in CG.

P3;

- Vivo would like to leave timing to UE implementation. Lenovo think that leave to implementation will not work in R1 TS. QC agree with vivo, but think that CG shall not be used in the determination of PH type.
- Vivo think that if R1 need the timing they can decide. Nokia point out that R2 has done previous agreements in this topic.
- Samsung wonders if the processing time is different for different numerology. Nokia indicates yes.
- Huawei think that the timing is not needed to determine the PH type. Huawei think we could leave the timing to UE implementation. CATT would be ok to leave timing to UE implementation. LG too.
- Convida think that the timing cannot be left to UE implementation. Lenovo agrees.
- Nokia cannot accept to Not report PHR in CG.

Show of hands

Report PHR in CG	5
Not report PHR in CG	10

⇒ **Report PHR in CG**

Offline (111), to discuss the timing (Nokia).

R2-1817495 Clarfication on PHR timing Nokia, Nokia Shanghai Bell, Ericsson, NTT DOCOMO, INC.
CR Rel-15 38.321 15.3.0 0354 3 F NR_newRAT-Core R2-1814474

R2-1818759 Clarfication on PHR timing Nokia, Nokia Shanghai Bell, Ericsson, NTT DOCOMO, INC.
CR Rel-15 38.321 15.3.0 0354 4 F NR_newRAT-Core R2-1814474

- Huawei do not support this.
- CATT think the timing is not clear and refers to parameters provided in DCI.
- LG think that the UL grant(s) is unclear. Nokia think we can clarify the wording, .
- Mediatek wonders if the timing also applies to PHR reported by LTE. Nokia think the intention is not top impact LTE, and the text refers to the NR MAC entity. If that is the case, the this seems ok to Mediatek.
- Huawei need more time to check.

Offline (111) continuation, next revision in R2-1818770

R2-1818770 Clarfication on PHR timing Nokia, Nokia Shanghai Bell, Ericsson, NTT DOCOMO, INC.
CR Rel-15 38.321 15.3.0 0354 5 F NR_newRAT-Core R2-1814474

- Huawei indicate that there is no processing time specified for configured grant, and it is not clear which time is applied. In particular both UL and DL is taken into account for this time.
- Chair: this is now OK with all companies except Huawei.
- Huawei think the CR doesn't work for CG. Nokia and Lenovo think there is no problem,
- Huawei objects to the CR, and do not accept technical endorsement either.

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- Lenovo think we could agree the CR but capture the timing as X and work on that the next meeting.

⇒ **Come back in main session**

R2-1817496 LS to RAN1 on PHR timing Nokia LS out Rel-15 NR_newRAT-Core To:RAN1

R2-1817500 Determination of actual vs. virtual PHR for CA case Lenovo, Motorola Mobility discussion Rel-15 NR_newRAT-Core

R2-1817503 Correction to determination of PH value type Lenovo, Motorola Mobility CR Rel-15 38.321 15.3.0 0563 - F NR_newRAT-Core

R2-1816763 Determination of PH value type Intel Corporation discussion Rel-15 NR_newRAT-Core

Moved from 10.3.1.1:

R2-1817348 Determination of PH value type LG Electronics Mobile Research discussion NR_newRAT-Core

R2-1818241 Further consideration on determination of the PH value type Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818242 Correction to determination of PH value type in 38.321 Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0209 3 F NR_newRAT-Core R2-1813889

R2-1817567 Correction on PHR for PH type determination Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0566 - F NR_newRAT-Core

R2-1818243 [Draft] LS on determination of PH value type Huawei LS out Rel-15 NR_newRAT-Core To:RAN1

P

R2-1818042 Correction on power backoff indication due to Power management Nokia, Nokia Shanghai Bell, Ericsson, Lenovo, NTT DOCOMO, INC. CR Rel-15 38.321 15.3.0 0445 1 F NR_newRAT-Core R2-1814476

- LG wonders why we need to do this as R1 has not requested.
- QC think this is not needed for single carrier case.
- Lenovo think that we need this as PCmax is reported.
- Samsung think this is non-backwards compatible. Vivo agrees.
- Huawei think this is needed, but can postpone to R16 for backwards non-compatibility. QC agrees with Huawei.
- LG think this is not critical.
- Chair think the problem is not backwards compatibility.
- Chair: not sufficient support.

⇒ **Revised**

R2-1818761 Correction on PHR references Nokia, Nokia Shanghai Bell, Ericsson, Lenovo, NTT DOCOMO, INC. CR Rel-15 38.321 15.3.0 0445 2 F NR_newRAT-Core R2-1814476

- LG think this is editorial. Huawei agrees. Nokia think that changing the references bring a non-editorial change.

⇒ **Agreed**

R2-1817936 Power backoff issue in single entry PHR MAC CE Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1818148 Discussion on P bit for the single entry PHR MAC CE Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818149 Introduce P bit to single entry PHR MAC CE Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0573 - F NR_newRAT-Core

Withdrawn

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R2-1817492 Correction on power backoff indication due to Power management Nokia, Nokia Shanghai Bell, Ericsson, Lenovo, NTT DOCOMO, INC. CR Rel-15 38.321 15.3.0 0354 2 F NR_newRAT-Core R2-1814474 Withdrawn

10.3.1.5 SPS and Configured Grant

Corrections related to Configured grant and SPS

R2-1816358 Correction addressing UL grant / MAC PDU mismatch on HARQ process 0 CATT, Qualcomm Incorporated, Apple Inc., LG Electronics Inc. CR Rel-15 38.321 15.3.0 0532 - F NR_newRAT-Core

- Ericsson, Nokia and Lenovo think a note isn't needed.
- MTK and Samsung think the note should be clearer. Samsung think the text may contradict the MSG3 rebuilding. CATT think it says "if otherwise specified" for that reason.
- CATT think the UE may behave badly without a NOTE.

⇒ **Not Pursued**

R2-1816498 Correction on DL SPS configuration OPPO CR Rel-15 38.331 15.3.0 0533 - F NR_newRAT-Core

- Samsung point out that we have a UE capability for multiple CG for UL but not for DL SPS, and think if we accept this we might need a new UE capability.
- Oppo still think there is a misalignment.
- LG agrees that from UP point of view, multiple SPS can be used.
- Mediatek think we just inherited what we had in LTE, and this is the reason for the RRC text.
- Ericsson agrees with Samsung that changing this now could be problematic.
- QC think indeed there is a misalignment and something should be changed. Oppo agrees that if we don't change RRC we shuld change MAC.
- Huawei think we can make a simple change in MAC to say only one configuration can be applied.

⇒ **Not pursued**

⇒ **We change 38.321 instead to align with the RRC statement**

Offline (121), MAC CR on DL SPS configuration (Oppo)

R2-1819041 Correction on DL SPS configuration OPPO CR Rel-15 38.321 15.3.0 0594 1 F NR_newRAT-Core

⇒ **Agreed**

Withdrawn:

R2-1817068 CR to 38.321 for SPS DL tranmission during measurement gap ZTE, Sanechips CR Rel-15 38.321 15.3.0 0544 - F NR_newRAT-Core
=> withdrawn

R2-1817069 CR to 38.321 for Configured grant timer ZTE, Sanechips CR Rel-15 38.321 15.3.0 0545 - F NR_newRAT-Core
=> withdrawn

10.3.1.6 DRX

Corrections related to DRX

General

R2-1818439 Clarification on the initial state of DRX Ericsson CR Rel-15 38.321 15.3.0 0589 - F NR_newRAT-Core

- QC think that the spec says that UE shall start in short DRX.
- LG agrees that a clarification is needed, but the UE shall start in short DRX if it si configured.
- Samsung think that the short cycle timer is started by procedure text.
- Huawei think the UE starts with only long DRX.
- Nokia think that the network has to assume the long cycle.

- LG think that the UE is required to monitor continuously also after a configuration until the UE is scheduled, and after UE scheduling after inactivity, the UE enters the short cycle.
- Nokia think we don't need to optimize and support to have this in the TS.

⇒ **If the Network assumes that the UE starts in long DRX after configuration, there will be no interoperability issues**

⇒ **Postponed (can attempt to clarify UE behaviour)**

R2-1817701 Correction on the field description of DRX timers Intel Corporation, Ericsson (Rapporteur) CR Rel-15 38.331 15.3.0 0686 - F NR_newRAT-Core

⇒ **agreed**

PDCCH monitoring

Moved from 10.3.1.1:

R2-1817346 PDCCH monitoring upon flexible TDD LG Electronics Mobile Research discussion NR_newRAT-Core

⇒ **Noted**

R2-1817347 CR on 38.321 for PDCCH monitoring upon flexible TDD LG Electronics Mobile Research CR Rel-15 38.321 15.3.0 0549 - F NR_newRAT-Core

- Chair wonders if we shouldn't be a bit careful about TS overlap and instead just specify e.g. "monitor the PDCCH, as specified in 38.213". LG would be ok with this suggestion

⇒ **Postpone**

Moved from 10.3.1.1:

R2-1818432 Specifying PDCCH monitoring Ericsson discussion Rel-15 NR_newRAT-Core

⇒ **Noted**

R2-1818433 Clarification to PDCCH monitoring Ericsson CR Rel-15 38.321 15.3.0 0232 4 F NR_newRAT-Core R2-1815641

- Oppo wonder if otherwise the UE follows 38.213. Ericsson think yes.
- LG think that the current text is clear
- Ericsson think that the line is also conflicting with Measurement Gaps. LG agrees that the UE shall not monitor PDCCH during measurement gaps.
- Ericsson think in the DRX section we should specify what DRX brings, and other specs and other sections specify when UE is required to monitor PDCCH.
- IDT think this is not important.
- CATT proposes to replace "continuously" with "as defined in 38.213". QC agrees.
- Huawei suggest we don't do anything.
- Sony support to remove this

⇒ **Postpone**

R2-1818438 Clarification on PDCCH monitoring when DRX is not configured Ericsson CR Rel-15 38.321 15.3.0 0466 1 F NR_newRAT-Core R2-1814775

BFR during DRX

R2-1818284 Discussion on BFR procedure in DRX off time Qualcomm Inc, MediaTek, OPPO, Fujitsu discussion Rel-15 NR_newRAT-Core

⇒ **Noted**

R2-1818134 BFR procedure in DRX mode CMCC discussion

⇒ **Noted**

DISCUSSION on the two docs above

- Vivo wonders if the UE could receive system information e.g. CMAS after BFD. Huawei think the BFD is for dedicated beams, and is not related to reception of SI.
- Nokia think that in any case the DRX cycle need to be short in high frequencies, but R4 defines requirements for this, and think we don't need to do anything. Huawei also think we don't need to change anything. Lenovo agrees. LG think it is more important to recover beam quickly.
- CATT, Intel, ASUS, Apple and Convida support the QC proposal.
- Nokia think the QC proposal may further restrict the R4 UE requirements.
- IDT think that both variants are still possible with the current specifications and we don't need to do anything. IDT think that BFD timing is anyway not testable. Huawei agrees with IDT and it is up to UE implementation when exactly to trigger BF.
- Chair: The exact timing of BF and BFR trigger seems to be to significant extent up to UE implementation.
- Nokia think that if we need a change this should be in R4 and not in R2.

⇒ **No Change could be agreed in R2**

R2-1818283 Correction to BFR procedure in DRX off time Qualcomm Inc, MediaTek, OPPO, Fujitsu
CR Rel-15 38.321 15.3.0 0584 - F NR_newRAT-Core

R2-1816879 Extension of DRX ACTIVE time SHARP discussion

R2-1816883 CR to TS 38.321 Extension of DRX ACTIVE time SHARP CR Rel-15 38.321 15.3.0 0539 - F NR_newRAT-Core

R2-1817342 BFR procedure in DRX LG Electronics Mobile Research discussion NR_newRAT-Core

R2-1817345 CR on 38.321 for BFR procedure in DRX LG Electronics Mobile Research CR Rel-15 38.321 15.3.0 0548 - F NR_newRAT-Core

R2-1817604 BFR during DRX Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT

R2-1818186 Delay of BFR in DRX off Xiaomi Communications discussion Rel-15

R2-1818192 BFR triggering in DRX ASUSTeK discussion Rel-15 NR_newRAT-Core

R2-1818193 Correction to BFR triggering in DRX ASUSTeK CR Rel-15 38.321 15.3.0 0578 - F NR_newRAT-Core

R2-1818244 Beam failure recovery in DRX Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818435 Corrections on BFR procedure in DRX Ericsson CR Rel-15 38.321 15.3.0 0360 2 F NR_newRAT-Core R2-1814795

R2-1818436 BFD in DRX Ericsson discussion Rel-15 NR_newRAT-Core R2-1814796

10.3.1.7 MAC PDU format

Corrections related to MAC PDU and MAC CE formats, if any

R2-1817568 Corrections on the TCI State Indication for UE-specific PDCCH MAC CE Huawei, HiSilicon
CR Rel-15 38.321 15.3.0 0567 - F NR_newRAT-Core

⇒ **Not pursued**

DISCUSSSION on the above doc
- Vivo think R1 sent an LS.

Comeback when we have treated R1 LS
- Huawei indicate that there is another CR in the main session and RRC and MAC change will be treated together.

R2-1817454 Correction on bitRateQueryProhibitTimer Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0558 - F NR_newRAT-Core
- Ericsson think that this is a new behaviour. Nokia think with this the network cannot configure the UE to not report. Huawei doesn't see that there could be a problem for the network.
- vivo think that the value of the timer can be configured to zero so it is already possible to use the function without timer.

⇒ **Not pursued**

R2-1818281 Correction to value table for recommended bit rate MAC CE Qualcomm Inc CR Rel-15 38.321 15.3.0 0582 - F NR_newRAT-Core
- Ericsson think we should copy the note from the CMCC LTE CR in R2-1818118 this meeting instead.

Revised in R2-1818771 (QC)

R2-1818771 Correction to value table for recommended bit rate MAC CE Qualcomm Inc CR Rel-15 38.321 15.3.0 0582 1 F NR_newRAT-Core

⇒ **Agreed**

R2-1818485 Correction to the SP SRS Activation/Deactivation MAC CE HUAWEI Technologies Japan K.K. CR Rel-15 38.321 15.3.0 0592 - F NR_newRAT-Core
- Ericsson think this is editorial

⇒ **Contents agreed, merged with the rapporteur CR**

R2-1817264 CR on TCI State Indication for UE-specific PDCCH MAC CE to support CORESET#0 Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0489 1 F NR_newRAT-Core R2-1814987

R2-1817026 TCI state of CORESET zero vivo CR Rel-15 38.321 15.3.0 0543 - F NR_newRAT-Core

10.3.1.8 Other

Other corrections on topics not included in the detailed agenda items, e.g. PDCP duplication, LCP, HARQ, SR, BSR.

SR BSR

R2-1817452 Correction on the per SR configuration procedure Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0557 - F NR_newRAT-Core

⇒ **Not pursued**

R2-1817504 Correction to SR triggering Samsung R&D Institute UK CR Rel-15 38.321 15.3.0 0564 - F NR_newRAT-Core

⇒ **revised**

R2-1819038 Correction to SR triggering Samsung R&D Institute UK CR Rel-15 38.321 15.3.0 0564 1 F NR_newRAT-Core

DISCUSSION
- Oppo wonders if there is a SR configuration without valid PUCCH resource. LG agrees

Comeback, check if there is an issue
- Samsung reports that there is disagreement on the assumptions.
- LG think there is always a valid PUCCH resources for a SR configuration.
- Samsung think that “valid” depends on whether there is a resource for active BWP.
- Nokia think we might leave the spec as it is. Ericsson agrees but could accept the CR.

⇒ **For email discussion/approval**

✉ **[104#25][NR UP] Correction to SR Triggering (Samsung)**
Intended outcome: Agreed CR. Conclude the discussion using the almost agreeable CR in R2-1819038 as a starting point.
Deadline: Monday 2018-11-26

R2-1818116 Discussion on SR counter handling in consideration of sr-ProhibitTimer LG Electronics Inc. discussion NR_newRAT-Core

⇒ **Noted**

DISCUSSION on the 3 docs above

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- IDT think that the physical layer will not be instructed several times. IDT would anyway not prefer a normative change.
- Samsung think this indeed is an issue.
- Nokia think that if we fix this we should not do it by a note.
- QC prefer no change, and think this is not critical.
- Intel think there are more issues, e.g. in LTE that we didn't fix, e.g. sim RACH and SR.
- CATT also think we should fix this and prefer the Samsung CR.
- Convida also believe this is a rare problem but would be ok with the Samsung CR.
- Lenovo would also be ok with the Samsung CR. Ericsson too.

R2-1817453 Correction on BSR triggered SR Huawei, HiSilicon, Samsung, LG Electronics Inc., CATT CR Rel-15 38.321 15.3.0 0459 1 F NR_newRAT-Core R2-1814716

- Nokia think the impact analysis need some update. Will there be problems or not?
- QC think this CR is not needed, and think a single BSR is sufficient for simultaneous triggers. CATT think the scenario is common for CA duplication, and two BSRs should then be triggered.
- Ericsson think that if this changes the UE behaviour we should not have this change.
- With this modified meaning, IDT think that we need more changes, e.g. change the indentation level. Huawei think nothing is changes wrt how many BSRs are transmitted just the generation of pending BSRs.
- Samsung think that the intention is not to change the UE behaviour.
- IDT think we need more changes.

⇒ **Will have the CR, coversheet needs update, revised**

Offline (123), Update coversheet, and discuss if other changes are needed, Revised in R2-1818773 (Huawei)

R2-1818773 Correction on BSR triggered SR Huawei, HiSilicon, Samsung, LG Electronics Inc., CATT CR Rel-15 38.321 15.3.0 0459 1 F NR_newRAT-Core R2-1814716

⇒ **agreed**

R2-1817477 Correction to logicalChannelSR-DelayTimer operation Samsung R&D Institute UK CR Rel-15 38.321 15.3.0 0562 - F NR_newRAT-Core

- Nokia agrees that we should mimic the behaviour we have in LTE, and support the change, but the line need an additional "and" in the end.
- LG think the current behaviour is ok. Nothing is broken. Samsung think that we intended the LTE behaviour, and this CR fixes this. LG think this is not backwards compatible. Intel also think this doesn't need to be fixed.
- Ericsson wonders what happens if we don't agree this, and are not sure this is severe. Ericsson think that typically the prohibit timer would have expired when the retxBSR timer expires.
- Huawei support the intention.

⇒ **Not pursued**

R2-1818442 Clarification to BSR trigger conditions Ericsson CR Rel-15 38.321 15.3.0 0591 - F NR_newRAT-Core

⇒ **Contents agreed, merged with rapporteur CR**

R2-1816359 Correction on SR cancellation statement CATT CR Rel-15 38.321 15.3.0 0533 - F NR_newRAT-Core

- LG think the only case is parallel RACH and there is no problem as it doesn't matter which RACH is used.
- CATT think that at a later part of a RACH procedure there is no possibility to send a new BSR.
- QC think this is not critical and prefer to keep the current text. Intel agrees with QC.
- Huawei think this relates to the Samsung CR above.

⇒ **Not pursued**

Text enhancement

R2-1817476 Correction to per-LCH SR masking description Samsung R&D Institute UK CR Rel-15 38.321 15.3.0 0561 - F NR_newRAT-Core

- Huawei think we shouldn't use the negative expression. Samsung explains that that is actually the intention of the CR.

⇒ **Contents agreed, merged with the rapporteur CR**

LCH restrictions

R2-1816680 Clarification on LCH-to-cell restriction Apple, ASUSTeK, CATT, China Telecom, China Unicom, Ericsson, Intel Corporation, Interdigital, Lenovo, Nokia, Nokia Shanghai Bell, NTT DoCoMo Inc, Qualcomm Incorporated, Spreadtrum, ZTE CR Rel-15 38.321 15.3.0 0535 - F NR_newRAT-Core

- LG, Samsung, Oppo, Huawei, Vivo believes we don't need this change. RRC reconfiguration can be used, and this is just an optimization.
- Mediatek think this can be discussed in Rel-16.
- Nokia think the required RRC reconfiguration would happen every time we activate or deactivate by MAC CE
- Samsung think the restrictions would not be used for both duplication and non-duplication very frequently. Xiaomi agrees.

⇒ **Agree the first change but not the second one.**

Comeback, Revised in R2-1818774 (Apple)

R2-1818774 Clarification on LCH-to-cell restriction Apple, ASUSTeK, CATT, China Telecom, China Unicom, Ericsson, Intel Corporation, Interdigital, Lenovo, Nokia, Nokia Shanghai Bell, NTT DoCoMo Inc, Qualcomm Incorporated, Spreadtrum, ZTE CR Rel-15 38.321 15.3.0 0535 1 F NR_newRAT-Core

⇒ **Agreed**

R2-1817450 Correction on LCH-to-Cell restriction lifting Huawei, HiSilicon CR Rel-15 38.300 15.3.0 0128 - F NR_newRAT-Core

R2-1817449 Options for LCH-to-Cell restriction in CA duplication Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817451 Correction on LCH-to-Cell restriction application Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0556 - F NR_newRAT-Core

R2-1817456 On LCH-to-cell mapping restrictions for the CA duplication deactivation case Samsung R&D Institute UK discussion

R2-1817457 Correction to LCH to cell mapping restriction configuration Samsung R&D Institute UK CR Rel-15 38.321 15.3.0 0559 - F NR_newRAT-Core

R2-1817458 Introducing a NOTE covering LCH to cell mapping restriction configuration for the CA duplication case Samsung R&D Institute UK CR Rel-15 38.321 15.3.0 0560 - F NR_newRAT-Core

R2-1818055 Clarification on LCH-to-cell restriction for PDCP duplication LG Electronics Inc. discussion Rel-15 NR_newRAT-Core

R2-1818056 Clarification on LCH-to-cell restriction for PDCP duplication LG Electronics Inc. CR Rel-15 38.321 15.3.0 0569 - F NR_newRAT-Core

R2-1818278 Correction on LCH-to-Cell restriction application with implicit indication Huawei, HiSilicon CR Rel-15 38.321 15.3.0 0581 - F NR_newRAT-Core

R2-1816249 LCP restrictions in case of duplication deactivation OPPO CR Rel-15 38.321 15.3.0 0522 - F NR_newRAT-Core

HARQ for SUO case 1

R2-1817519 Modelling of HARQ for SUO case 1 MediaTek Inc. discussion Rel-15 38.321 NR_newRAT-Core

⇒ **Noted**

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R2-1817497 HARQ operation for SUO case 1 Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-15 NR_newRAT-Core
DISCUSSION
- Huawei think it is correct that this is synch HARQ, and think there was a mistake that need to be corrected in R1.
- Mediatek think L1 need to provide an ACK to MAC in this case. Ericsson think this is done by L1, but would be ok to indicate to R1 in an LS. Nokia agrees.
- Apple think we should ask R1 for Asynch HARQ. Ericsson think that would be fruitless as it would require redesign.

⇒ **Noted**

R2-1817498 Clarification on HARQ RTT for SUO case 1 Nokia, Nokia Shanghai Bell, Ericsson CR Rel-15 36.321 15.3.0 1394 - F NR_newRAT-Core

⇒ **Agreed**

R2-1817499 Draft LS on UL HARQ RTT for SUO case 1 Nokia LS out Rel-15 NR_newRAT-Core To:RAN1

⇒ **Add in the end "MAC assumes that L1 will deliver Ack to MAC for this case"**

⇒ **With the addition, the LS is approved, final version in R2-1818775**

Misc

R2-1816251 Allowing padding when UL grant size is larger than 8 bytes OPPO CR Rel-15 38.321 15.3.0 0523 - F NR_newRAT-Core
- LG think we should not remove "available for transmission".

Offline (124), on the details of this change, revision in R2-1818776 (Oppo)

R2-1818776 Allowing padding when UL grant size is larger than 8 bytes OPPO CR Rel-15 38.321 15.3.0 0523 1 F NR_newRAT-Core

⇒ **Agreed**

10.3.2 RLC

Corrections related to RLC

R2-1818057 Ambiguity of POLL_SN update timing LG Electronics Inc. discussion Rel-15 NR_newRAT-Core

R2-1818058 Ambiguity of POLL_SN update timing LG Electronics Inc. CR Rel-15 38.322 15.3.0 0028 - F NR_newRAT-Core
- Nokia think the new wording is maybe still somewhat unclear.
- Ericsson think that the coversheet need to be clearer that this is just a clarification,

Offline (125), Revised, in R2-1818777
- LG reports that not many people particiapted

R2-1818777 Ambiguity of POLL_SN update timing LG Electronics Inc. CR Rel-15 38.322 15.3.0 0028 1 F NR_newRAT-Core

⇒ **Agreed**

10.3.3 PDCP

Corrections related to PDCP

10.3.3.1 Agreed in principle CRs

R2-1818104 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 38.323 15.3.0 0023 - F NR_newRAT-Core

⇒ **Agreed**

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R2-1818553 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 38.331 15.3.0 0448 2 F NR_newRAT-Core R2-1815648
- Coversheet was updated, “all” was added in “all DRBs “etc

⇒ **Agreed**

10.3.3.2 Other

R2-1816876 PDCP suspend for eLTE Samsung Research America CR Rel-15 36.331 15.3.0 3725 - F LTE_5GCN_connect-Core

⇒ **Not pursued**

R2-1818107 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 36.331 15.3.0 3794 - F NR_newRAT-Core
- Samsung indicate that they have reviewed this carefully and the changes are correct.

⇒ **This change is needed, but to be agreed in the CP or common session**

R2-1816742 Suspend and resume of security Intel Corporation CR Rel-15 38.323 15.3.0 0022 1 F NR_newRAT-Core R2-1816009
- LG think that ciphering is ok, but integrity protection is problematic because we didn’t agree how to handle the MAC-I field when suspended for DRB.
- Samsung think that suspend for integrity protection is not agreed for RRC yet, and still under discussion.
- Intel think that regardless of IP for DRB, there is anyway an agreement for SRB and the proposed text is needed. RRC will determine what is applied to DRB vs SRB.

Can comeback when CP discussion has converged.
- Samsung indicates that there has been on progress yet in the CP session

⇒ **Can comeback in the main session**

R2-1818431 Clarification on ciphering MAC-I Ericsson, LG Electronics CR Rel-15 38.323 15.3.0 0024 - F NR_newRAT-Core

⇒ **agreed**

10.3.4 SDAP

Corrections related to SDAP

10.3.4.1 Agreed in principle CRs

10.3.4.2 Other

R2-1818584 Correction on the condition for constructing end-marker control PDU Qualcomm Inc. CR Rel-15 37.324 15.1.0 0012 - F NR_newRAT-Core
- Nokia think RAN5 should change their test case instead
- LG think this is not needed. Ericsson agrees.
- Qualcomm want to clarify that this configuration will never happen and if it happens there is an interruption.
- Chair: This reconfiguration case can be regarded an abnormal case

⇒ **No support not pursued**

10.4 Stage 3 control plane

10.4.1 NR RRC

10.4.1.0 In principle agreed CRs

In principle agreed CR to 38.331

R2-1816272 Remain issue for T302 CATT CR Rel-15 38.331 15.3.0 0216 2 F NR_newRAT-Core R2-1815992

R2-1816302 PDCCH Monitoring Occasions in SI Window Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0436 2 F NR_newRAT-Core R2-1815912

R2-1816494 38.331CR Corrections on security field descriptions OPPO CR Rel-15 38.331 15.3.0 0213 2 F NR_newRAT-Core R2-1815965

R2-1816658 Removal of restriction on RB removal and addition NTT DOCOMO INC., Sharp CR Rel-15 38.331 15.3.0 0476 2 F NR_newRAT-Core R2-1815813

R2-1816666 CR to 38331 on ul-DataSplitThreshold for SRB ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0248 2 F NR_newRAT-Core R2-1815817

R2-1816667 CR for introducing PSCell frequency in CG-Config ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0235 2 F NR_newRAT-Core R2-1815948

R2-1816668 CR for security handling upon handover to eLTE in 38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0236 2 F NR_newRAT-Core R2-1815853

R2-1816679 CR on SI request procedure in TS38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0246 2 F NR_newRAT-Core R2-1815934

R2-1816726 Security for RRC connection release Intel Corporation CR Rel-15 38.331 15.3.0 0242 2 F NR_newRAT-Core R2-1815958

R2-1816733 Handling on security keys for resume procedure (I774) Intel Corporation, MediaTek Inc. CR Rel-15 38.331 15.3.0 0238 2 F NR_newRAT-Core R2-1815835

R2-1816734 Handling on simultaneously triggered NAS/AS events (I770) Intel Corporation CR Rel-15 38.331 15.3.0 0237 1 F NR_newRAT-Core R2-1813968

R2-1816739 Corrections on reestablishment and security procedures Intel Corporation CR Rel-15 38.331 15.3.0 0243 4 F NR_newRAT-Core R2-1816030

R2-1816774 Procedures for full config at RRC Resume Ericsson CR Rel-15 38.331 15.3.0 0364 1 F NR_newRAT-Core R2-1814653

R2-1816797 Clarification of PDCP-Config field descriptions Ericsson CR Rel-15 38.331 15.3.0 0365 2 F NR_newRAT-Core R2-1815818

R2-1816863 Clarification on Counter check procedure Samsung Research America CR Rel-15 38.331 15.3.0 0302 2 F NR_newRAT R2-1815963

R2-1816882 UE configuration on re-establishment procedure MediaTek Inc. CR Rel-15 38.331 15.3.0 0296 2 F NR_newRAT-Core R2-1815832

R2-1816890 SIB size limitation [M201] MediaTek Inc. CR Rel-15 38.331 15.3.0 0298 2 F NR_newRAT-Core R2-1815911

R2-1816893 Correction on SRS-TPC-CommandConfig MediaTek Inc. CR Rel-15 38.331 15.3.0 0299 2 F NR_newRAT-Core R2-1815925

R2-1816975 Clarification on Configuration of multiplePHR for EN-DC and NR-CA Samsung Electronics CR Rel-15 38.331 15.3.0 0460 2 F NR_newRAT-Core R2-1815820

R2-1817031 SSBPositionsInBurst misalignement with RAN1 Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0320 2 F NR_newRAT-Core R2-1815846

R2-1817032 SIB1 missing or not scheduled UE behaviour Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0325 2 F NR_newRAT-Core R2-1815914

R2-1817033 SIBs needed before connection setup Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0330 2 F NR_newRAT-Core R2-1815917

R2-1817036 SI storing and validity clarification Nokia, Nokia Shanghai Bell, Samsung CR Rel-15 38.331 15.3.0 0329 4 F NR_newRAT-Core R2-1816034

R2-1817038 ASN.1 correction to fr-InfoListSCG in CG-Config Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0350 2 F NR_newRAT-Core R2-1815938

R2-1817130 Clarification for absense of nr-NS-PmaxList IE Ericsson CR Rel-15 38.331 15.3.0 0344 1 F NR_newRAT-Core R2-1814519

R2-1817154 Clarification on paging in connected mode Ericsson CR Rel-15 38.331 15.3.0 0345 2 F NR_newRAT-Core R2-1815782

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R2-1817183 On field descriptions on measObjectEUTRA Ericsson CR Rel-15 38.331 15.3.0 0333 1 F NR_newRAT-Core R2-1814452

R2-1817186 On procedural correction on measurements Ericsson CR Rel-15 38.331 15.3.0 0342 1 F NR_newRAT-Core R2-1814505

R2-1817197 CR to 38.331 on clarification of guami-Type Ericsson CR Rel-15 38.331 15.3.0 0249 2 F NR_newRAT-Core R2-1815822

R2-1817199 CR to 38.331 on protection of RRC messages table Ericsson CR Rel-15 38.331 15.3.0 0252 1 F NR_newRAT-Core R2-1814085

R2-1817259 Correction to Default MAC Cell Group configuration Samsung Electronics CR Rel-15 38.331 15.3.0 0445 2 F NR_newRAT-Core R2-1815816

R2-1817260 Correction to missing field descriptions of PLMN identity Samsung Electronics CR Rel-15 38.331 15.3.0 0447 1 F NR_newRAT-Core R2-1815124

R2-1817301 [E255] CR to 38.331 on corrections related to CGI reporting timer T321 Ericsson CR Rel-15 38.331 15.3.0 0371 2 F NR_newRAT-Core R2-1815588

R2-1817315 Update of nas-SecurityParamFromNR according to LS from SA3 (38.331) Ericsson CR Rel-15 38.331 15.3.0 0439 1 F NR_newRAT-Core R2-1815090

R2-1817478 CR for TS38.331 on MIB Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0199 2 F NR_newRAT-Core R2-1815922

R2-1817479 CR for TS38.331 on PDCCH-ConfigSIB Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0200 1 F NR_newRAT-Core R2-1813666

R2-1817586 UE context handling during handover to NR Ericsson, Google Inc. CR Rel-15 38.331 15.3.0 0368 2 F NR_newRAT-Core R2-1815964

R2-1817620 Introducing procedure for reporting RLC failures Samsung Telecommunications CR Rel-15 38.331 15.3.0 0376 2 B NR_newRAT-Core R2-1815966

R2-1817650 Correction to SI provision in connected mode Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0434 1 F NR_newRAT-Core R2-1815075

R2-1817651 Corrections to the field decriptions of System Information Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0431 2 F NR_newRAT-Core R2-1815910

R2-1817679 A3 and A5 corrections - neighbouring cell definition Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0335 2 F NR_newRAT-Core R2-1815944

R2-1817745 Clarifications on RNA update and CN registration (N023) Ericsson CR Rel-15 38.331 15.3.0 0411 1 F NR_newRAT-Core R2-1814961

R2-1817746 Invalidation of L1 prmtr Ericsson CR Rel-15 38.331 15.3.0 0410 1 F NR_newRAT-Core R2-1814960

R2-1817816 Bandwidth configuration for initial BWP Ericsson CR Rel-15 38.331 15.3.0 0502 1 F NR_newRAT-Core R2-1815842

R2-1817817 Clarification on ssb-PositionsInBurst Ericsson CR Rel-15 38.331 15.3.0 0417 1 F NR_newRAT-Core R2-1814972

R2-1817818 Correction to commonControlResourceSet Ericsson CR Rel-15 38.331 15.3.0 0418 2 F NR_newRAT-Core R2-1815849

R2-1817819 Correction to TDD configuration in SIB1 Ericsson CR Rel-15 38.331 15.3.0 0420 1 F NR_newRAT-Core R2-1814976

R2-1817861 Clarification on the smtc signalled for intra-NR handover, PSCell change or SCell addition Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0270 3 F NR_newRAT-Core R2-1816025

R2-1817862 CR on fallback to the setup procedure Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0273 3 F NR_newRAT-Core R2-1816056

R2-1817863 RRC connection release triggered by upper layers Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0382 2 F NR_newRAT-Core R2-1815959

R2-1817864 Correction of frequency band indication in MeasObjectNR Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0379 2 F NR_newRAT-Core R2-1815942

R2-1817866 CR on threshold description for cell quality derivation Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0278 1 F NR_newRAT-Core R2-1814159

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R2-1817867 CR to avoid unnecessary L3 filtered beam measurements Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0282 1 F NR_newRAT-Core R2-1814164

R2-1817868 CR on ssb-ToMeasure in MeasurementTimingConfiguration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0267 2 F NR_newRAT-Core R2-1815937

R2-1817918 CR for triggers for abortion of RRC establishment Ericsson CR Rel-15 38.331 15.3.0 0402 1 F NR_newRAT-Core R2-1814924

R2-1817922 E573 Configuration of SRB1 during Resume Ericsson CR Rel-15 38.331 15.3.0 0396 2 F NR_newRAT-Core R2-1815952

R2-1817981 CR to 38.331 on pendingRNAUpdate setting Ericsson CR Rel-15 38.331 15.3.0 0375 3 F NR_newRAT-Core R2-1815578

R2-1818003 CR on correction on the allowedBC-ListMRDC Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0475 1 F NR_newRAT-Core R2-1815378

R2-1818041 Missing optionality bit in CG-ConfigInfo Ericsson, Qualcomm Inc CR Rel-15 38.331 15.3.0 0412 2 F NR_newRAT-Core R2-1815939

R2-1818240 Clarification on configured grant timer in 38.331 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0229 2 F NR_newRAT-Core R2-1815810

R2-1818310 CR on SI Message Acquisition Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0438 3 F NR_newRAT-Core R2-1816036

R2-1818378 Correction on conditional presence of PCellOnly Samsung Electronics CR Rel-15 38.331 15.3.0 0469 2 F NR_newRAT-Core R2-1815828

R2-1818529 CR to 38.331 on removing FFS of locationInfo Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0783 F NR_newRAT-Core R2-1813817
=> Revised in R2-1818578

R2-1818578 CR to 38.331 on removing FFS of locationInfo Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0783 1 F NR_newRAT-Core

R2-1818539 Addition of RAN specific Access Category Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0188 3 F NR_newRAT-Core R2-1816029

R2-1818548 Correction on CN type indication for Redirection from NR to E-UTRA Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0406 2 F NR_newRAT-Core R2-1815962

R2-1818550 Introduction of power boosting indicator for pi2BPSK waveform IITH, IITM, CeWIT, Nokia, Nokia Shanghai Bell, Mediatek CR Rel-15 38.331 15.3.0 0474 3 B NR_newRAT-Core R2-1815847

R2-1818551 CR for TS38.331 on PowerControl-related issues Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0391 2 F NR_newRAT-Core R2-1815923

R2-1818552 Correction to PDCP statusReportRequired LG Electronics Inc. CR Rel-15 38.331 15.3.0 0449 2 F NR_newRAT-Core R2-1815819

R2-1818558 Correction in 38331 for SRS-config Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0388 2 F NR_newRAT-Core R2-1815921
=> All CRs above are agreed (these are same as agreed in RAN2#103bis part from very trivial editorial corrections)

Flagged CRs

R2-1817865 Correction to configuration of measurement object Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0384 2 F NR_newRAT-Core R2-1815943
- ZTE think that for MR-DC there is no restriction for the SMTC to be the same according to RAN4 spec. Also think that match in time is not clear.
- Nokia have the same concerns as ZTE, and understand that RAN4 allow different configurations and the price paid is that they are considered as 2 different MOs
- Intel think the RAN4 is based on RAN2 spec and there is discussion this meeting to remove the text from RAN4 spec. Also there is the RAN1 agreement about SCS that needs to be considered.

=> Comeback to confirm whether it can be agreed after discussion in RRM AI.
=> CR is not agreed (a revision is handled as part of offline discussion 31)

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R2-1817065 CR on the ambiguity of targetCellIdentity in Resume/Reestablishment MAC-I calculation ZTE, Sanechips CR Rel-15 38.331 15.3.0 0454 2 F NR_newRAT-Core R2-1815834
=> Comeback to confirm whether it can be agreed after seeing if there is any impact as a consequence of RAN3 discussions.
=> Revised In R2-1819045

R2-1819045 CR on the ambiguity of targetCellIdentity in Resume/Reestablishment MAC-I calculation ZTE, Sanechips CR Rel-15 38.331 15.3.0 0454 3 F NR_newRAT-Core
=> Agreed

R2-1816735 RIL I556, I557, I558 on RB handling when resuming Intel Corporation CR Rel-15 38.331 15.3.0 0239 3 F NR_newRAT-Core R2-1816052
=> Comeback to confirm whether it can be agreed after discussion in Resume AI.
=>Revised in R2-1818972

R2-1818972 RIL I556, I557, I558 on RB handling when resuming Intel Corporation CR Rel-15 38.331 15.3.0 0239 4 F NR_newRAT-Core
=> Revised in R2-1819067

R2-1819067 RIL I556, I557, I558 on RB handling when resuming Intel Corporation CR Rel-15 38.331 15.3.0 0239 4 F NR_newRAT-Core
=> Agreed

R2-1816290 CR on SDAP reconfiguration handling Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0509 - F NR_newRAT-Core R2-1815826 Revised
Moved from 10.4.1.3.4 to 10.4.1.0

=> Revised to R2-1818506

R2-1818506 CR on SDAP reconfiguration handling Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0509 1 F NR_newRAT-Core R2-1816290 Late
Moved from 10.4.1.3.4 to 10.4.1.0

=> Comeback to confirm whether it can be agreed after discussion this week
=> CR is not agreed. A revision is handled as part of offline discussion 56

Moved from other AI but no change compared to agreed in principle CR at RAN2#103bis?

R2-1816740 Corrections to the SIB1 acquisition procedure Intel Corporation CR Rel-15 38.331 15.3.0 0340 2 F NR_newRAT-Core R2-1815915
Moved from 10.4.1.6.2 to 10.4.1.0

R2-1816741 SI reception upon handover Intel Corporation CR Rel-15 38.331 15.3.0 0339 2 F NR_newRAT-Core R2-1815935
Moved from 10.4.1.6.4 to 10.4.1.0

R2-1816271 [C204] Handling of timer T380 CATT CR Rel-15 38.331 15.3.0 0219 1 F NR_newRAT-Core R2-1813823
Moved from 10.4.1.3.6 to 10.4.1.0

R2-1817352 Corrections for handover between NR and E-UTRA Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0260 3 F NR_newRAT-Core R2-1816038
=> *Moved from 10.4.2.2 to 10.4.2.0*

=> Revised in R2-1818562

R2-1818562 Corrections for handover between NR and E-UTRA Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0260 4 F NR_newRAT-Core R2-1817352
=> CRs above (from R2-1816740) are agreed (these are same as agreed in RAN2#103bis part from very trivial editorial corrections)

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38.304 CR

R2-1818549 CR on UE behaviour upon lack of TAC in SIB1 Nokia, Nokia Shanghai Bell CR Rel-15 38.304 15.1.0 0074 2 F NR_newRAT-Core R2-1816035
=> Agreed

Withdrawn

R2-1816656 Correction for SRS-config Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0557 - F NR_newRAT-Core

R2-1818444 CR for triggers for abortion of RRC establishment Ericsson CR Rel-15 38.331 15.3.0 0402 2 F NR_newRAT-Core R2-1814924 Late

R2-1818445 E573 Configuration of SRB1 during Resume Ericsson CR Rel-15 38.331 15.3.0 0396 3 F NR_newRAT-Core R2-1815952 Late

R2-1816998 Correction to Default MAC Cell Group configuration Samsung Electronics CR Rel-15 38.331 15.3.0 0588 - F NR_newRAT-Core Withdrawn

R2-1817000 Correction to missing field descriptions of PLMN Identity Samsung Electronics CR Rel-15 38.331 15.3.0 0589 - F NR_newRAT-Core Withdrawn

R2-1818305 CR on SI Message Acquisition Samsung R&D Institute India CR Rel-15 38.331 15.3.0 0749 - F NR_newRAT-Core Withdrawn

R2-1816528 Addition of RAN specific Access Category Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0540 - F NR_newRAT-Core

R2-1816655 Correction for PowerControl-related issues Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0556 - F NR_newRAT-Core

R2-1818102 Correction to PDCP statusReportRequired LG Electronics Inc. CR Rel-15 38.331 15.3.0 0734 - F NR_newRAT-Core

R2-1818103 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 38.331 15.3.0 0735 - F NR_newRAT-Core

R2-1817919 Clarification on handling of default parameters Ericsson CR Rel-15 38.331 15.3.0 0421 3 F NR_newRAT-Core R2-1815825

R2-1817920 Clarifications on RNA update and CN registration (N023) Ericsson CR Rel-15 38.331 15.3.0 0411 2 F NR_newRAT-Core R2-1814961

R2-1817921 Procedures for full config at RRC Resume (38.331) Ericsson CR Rel-15 38.331 15.3.0 0364 2 F NR_newRAT-Core R2-1814653

10.4.1.1 TS

38.331 rapporteur inputs, if any.

R2-1817740 Miscellaneous minor corrections Ericsson CR Rel-15 38.331 15.3.0 0409 2 F NR_newRAT-Core R2-1814958
- Ericsson explain that nearly all of the changes are agreed based on discussion from last meeting. Only a few are additional issues found.
- Qualcomm think the UE capability additions would be better separate CR

=> Removes the UR capability additions to a separate CR
=> Change 39 is to be removed from the CR
=> Other issues can also be discussed offline
=> Revised in R2-1818838 (Offline discussion 22)

=> UE capability changes in R2-1818839 CR 0786

R2-1818838 Miscellaneous minor corrections Ericsson CR Rel-15 38.331 15.3.0 0409 3 F NR_newRAT-Core
=> Agreed, but then revised in R2-1819068

R2-1819068 Miscellaneous minor corrections Ericsson CR Rel-15 38.331 15.3.0 0409 4 F NR_newRAT-Core
=> Agreed

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R2-1818839 [CR for UE capability changes] Ericsson CR Rel-15 38.331 15.3.0 0786 - F NR_newRAT-Core
=> The changes were merged into the UE capability CR from the UE capability email discussion

10.4.1.3 Connection control procedures

No documents should be submitted to 10.4.1.3. Please submit to 10.4.1.3.x.

10.4.1.3.1 Corrections to connection control for EN-DC (early drop)

Corrections related to connection control procedures for EN-DC

10.4.1.3.1.1 Corrections to L1 Parameters

Including output of email discussion [103bis#14][NR] Channel Bandwidth Signalling (Qualcomm)
Including output of email discussion [103bis#42][NR/L1] PUCCH resource release (Huawei)

Late incoming LSs related to this agenda item:

R2-1818926 Reply to further reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon (R1-1814066; contact: Ericsson) RAN1
=> Note

R2-1818927 LS on CORESET 0 (R1-1814068; contact: NTT DOCOMO) RAN1
- Nokia and Ericsson thinks that the first option is possible for EN-DC where the UE gets the common and dedicated branch in the same RRC message. It is not possible for NR SA since then the UE would get the TCI IDs in the SIB1 before knowing their definition. Intel would prefer to go only for the option 2 to avoid implementing two options. Vivo, QC and Huawei think that option 2 is preferable. Vivo thinks that option 2 would work for both EN-DC and NR SA. Intel thinks that for option 2 the UE applies the configured TCI States only after receiving MAC CE and until then the SSBs. Nokia and Ericsson point out that option 2 would be an NBC for EN-DC. DCM points out that RAN1 indicates that their CRs are developed based on option 1. Ericsson cannot accept option 2 for EN-DC since it would be a NBC at this late point in time. Samsung supports option 1. Nokia shares Ericsson's view. Ericsson explains that it was already possible according to the current specification to configure TCI-states for commonControlResourceSet with the existing signalling (option 1). If we would go for option 2, we would do a NBC change since one cannot use commonControlResourceSet anymore to select one of the TCI states... one would have to use the MAC CE for that.

=> Discuss further offline how to proceed (Offline 900, DCM)

R2-1818973 Reply LS on MIMO layer configuration, from RAN1,
=> Noted

Rapporteur's CRs:

R2-1817741 Cleanup of references to L1 specifications Ericsson CR Rel-15 38.331 15.3.0 0694 - F NR_newRAT-Core
=> Impact analysis to be added
=> Agreed in R2-1818840

Serving Cell configuration

Correction on SSB power:
Related to incoming LS from RAN1 (R2-1815955)

R2-1816651 Corrections on SSB power Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0552 - F NR_newRAT-Core
=> Coversheet to be revised to state the consequences if not approved are "Field description not aligned to RAN1 specifications" and clarify the reason that there is no interop impact (i.e. that it is just alignment to RAN1 spec)
=> Second change to be removed
=> Agreed in R2-1818841

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R2-1817709 ss-PBCH-power-offset defintion correction based on RAN1 LS Intel Corporation CR Rel-15 38.331 15.3.0 0690 - F NR_newRAT-Core

Cell-level rate matching parameters in ServingCellConfig

R2-1816851 Discussion on cell level rate matching parameters ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

- Intel think that all SA UEs should be able to understand the rate matching parameters but whether they actually support the rate matching operation depends on the capability.
- Ericsson think they can be configured in MSG4 and it is up to the network to decide whether to use them if they know the capabilities.
- Vivo think UE support of the feature should be decided in RAN1.
- Qualcomm have concerns for P2 as the RAN1 agreement is that support is a capability for both EN-DC and SA and it was in the end decided in RAN.
- Ericsson think the scheduling is complicated if the UE doesn't support the feature or before the network knows the capabilities.
- Vodafone support the proposal
- LG would be OK to support the P2.

Agreements
1: No change to the existing IOT bit for this feature
2 cell-level rate-matching parameters to be added to ServingCellConfig
3 UEs indicating the support via the existing IOT bit will support the reception of the parameters in ServingCellConfig

=> Offline discussion to consider whether to also have a downlink indication in SIB that the network is using the feature and that UEs not supporting the feature shall not access the cell (Offline discussion 23, ZTE)

R2-1819046 [Offline 023] Downlink indication in SIB that the network transmits LTE CRS ZTE Corporation report

- ZTE think there is acknowledgement that there is a problem but it is not necessary to provide a SIB indication.

Agreements
1: A downlink indication in SIB that the network is transmitting LTE CRS is not introduced.

R2-1816852 Introduction of cell level rate matching parameters in ServingCellConfig ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0234 2 F NR_newRAT-Core R2-1815845

=> Coversheet to be updated to remove ref to 38.306 CR, and to describe that it is also related to EN-DC
=> Add TS to the spec number
=> Agreed in R2-1818842

R2-1816853 Correction to rate matching parameters ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.3.0 0053 - F NR_newRAT-Core

R2-1816854 LS on L1 parameters ZTE Corporation LS out Rel-15 NR_newRAT-Core To:RAN1

Timing Advance Offset:

R2-1816647 Corrections on n-TimingAdvanceOffset Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0548 - F NR_newRAT-Core

- Ericsson think this was discussed last meeting and no change was needed.

=> Not agreed

ssb-PositionsInBurst to rate match around:

RAN2 waits for feedback from RAN1.

R2-1817265 CR on ssb-PositionsInBurst mismatch issue Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0426 2 F NR_newRAT-Core R2-1815999
Comeback when response received from RAN1
=> Handled by breakout session on L1 parameters
=> RAN1 LS Received during RAN2-104 in R2-1818926
=> Not agreed (after presentation of late RAN1 LS)

Channel Bandwidth

R2-1817374 Summary of email discussion [103bis#14][NR] Channel Bandwidth Signalling (Cell Accessibility) Qualcomm Incorporated report Rel-15 NR_newRAT-Core
- Huawei thinks the UE doesn't need to consider the BW of the Initial BWP but only the BW indicated in MIB.
- Qualcomm think that the initial BWP BW is needed for msg4 reception and so it doesn't work if the UE doesn't support the BW. Huawei think it is only after message 4.
- Nokia think the UE would not be able to use the Initial BWP after message 4 and so it makes no sense for the UE to access the cell.

P4
- LG think we could rely on T300 to expire if the UE cannot access the cell. Hence prefer to leave this to UE implementation
-

Agreements
1 The UE shall not consider the parameters of subcarrier spacing and channel bandwidth as signalled in scs-SpecificCarrierList in SIB1 for determining if the cell is accessible.
2: The UE considers the cell is accessible only when the UE supports the bandwidth of the initial BWP (locationAndBandwidth in SIB1).
3: If UE does not support the cell configuration according to SIB1 the UE considers the cell as barred, and UE considers the IFRI bit in the MIB.

R2-1817132 Correction for support of initial downlink BWP Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817462 Cell barring when UE doesn't support initial BWP bandwidth Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core R2-1814433

R2-1817482 Cell barring for not supporting bandwidth of the initial UL BWP Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817133 Correction for support of initial downlink BWP Ericsson CR Rel-15 38.331 15.3.0 0601 - F NR_newRAT-Core
=> Discuss offline how specific to be when defining the cases for which the cell needs to be barred
=> Revised in R2-1818843 to reflect the decisions above (Offline discussion 24)

R2-1818843 Correction for support of initial downlink BWP Ericsson CR Rel-15 38.331 15.3.0 0601 1 F NR_newRAT-Core
=> Agreed

R2-1817463 Correction to cell barring when UE doesn't support initial BWP bandwidth Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0331 1 F NR_newRAT-Core R2-1814434

R2-1817483 CR on cell barring for not supporting bandwidth of the initial UL BWP Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0651 - F NR_newRAT-Core

PDCCH

CORESET#0:

R2-1816850 CORESET#0 configuration when SIB1 is not broadcast ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0503 2 F NR_newRAT-Core R2-1816049

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=> To be revised to make changes in a more appropriate location (current changes are in a location only applicable for idle and inactive)
=> Revised in R2-1818846 (Offline discussion 27)

R2-1818846 CORESET#0 configuration when SIB1 is not broadcast ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0503 3 F NR_newRAT-Core
=> Remove the changes on changes
=> Agreed in R2-1819035

R2-1816855 Correction to ControlResourceSetZero ZTE Corporation, Sanechips, Ericsson CR Rel-15 38.331 15.3.0 0580 - F NR_newRAT-Core
=> Instead modify the first sentence of the field description to say "Parameters of the common CORESET#0 which can be used in any common or UE-specific search spaces "
=> Agreed in R2-1818847

CommonControlResourceSet:

How/whether it is possible to configure TCI states for commonControlResourceSet. (Related to RAN2's LS to RAN1 (R2-1816023) which RAN1 has not yet replied to)

R2-1816657 Correction for TCI state in CommonControlResourceSet Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0558 - F NR_newRAT-Core
=> MAC CR is covered by offline discussion 900
=> Comeback to see if the RRC CR is still needed

✉ **[104#02][NR] TCI state in CommonControlResourceSet (Huawei)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

Search Space

Related incoming LSs from RAN1:
LS on PDCCH monitoring periodicities for DCI format 2_0 (R2-1815812, R1-1811968; contact: Intel) RAN1
LS on field description for SearchSpace (R2-1816213, R1-1811969, contact NTT DOCOMO) RAN1

R2-1816653 Corrections on SearchSpace configuration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0554 - F NR_newRAT-Core
=> Change " should be ignored " to "shall be ignored"
=> Impact analysis and consequences if not approved to be updated
=> RAN1 tdoc numbers on coversheet to be corrected
=> Agreed in R2-1818848

R2-1817710 Correction on the usage of the allowed monitoring periodicities and symbols for DCI 2_0 Intel Corporation CR Rel-15 38.331 15.3.0 0691 - F NR_newRAT-Core
=> Not agreed

R2-1817393 Search space configuration for DCI format 2_0 monitoring Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0646 - F NR_newRAT-Core
=> Specify that the UE ignores the duration for DCI format 2_0.
=> Revised in R2-1818850

R2-1818850 Search space configuration for DCI format 2_0 monitoring Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0646 1 F NR_newRAT-Core
=> Agreed

SRS power control by DCI:

R2-1817488 CR on starting bit of Format 2-3 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0656 - F NR_newRAT-Core
=> Add " first bit / left most" (align with other cases)
=> Agreed in R2-1818849

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Cross Carrier scheduling:

RAN2 sent an LS to RAN1 and awaits their feedback.

Comeback after response received from RAN1 - no input received during RAN2#104

R2-1816258 Search space configuration for cross carrier scheduling OPPO CR Rel-15 38.331 15.3.0 0504 - F NR_newRAT-Core

R2-1816650 Corrections on CrossCarrierScheduling Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0551 - F NR_newRAT-Core

PUCCH

PUCCH Resource Release

R2-1817480 Summary of 103bis#42NR L1 PUCCH resource release Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core Late

P1a

- Qualcomm think the resources should be released by the RRC configuration should not be released.
- DOCOMO agree with Qualcomm.
- Intel think the current spec if clear although it is not efficient. Would be ok to leave the spec as it is.
- Nokia think it is not broken but just inefficient and this this change would not be backward compatible. Ericsson think the CR doesn't actually fix the inefficiency.

=> Noted

R2-1817481 CR on PUCCH resource release Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0650 - F NR_newRAT-Core Late

=> Not agreed

PUCCH resources configurable in a BWP:

R2-1817569 Correction on the size of PUCCH resource ID Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0670 - F NR_newRAT-Core

- Intel points out that this CR is NBC. Ericsson agrees that it is NBC when only looking at the RRC spec. It might be clear though from RAN1 spec that it must be possible to configure more in total. Ericsson would generally support the CR. Ericsson thinks that the impact analysis should be updated (NW impelemnts but UE does not).

=> Clarify impact analysis: “If the NW is implemented according to the CR but the UE is not, the UE may not comprehend and hence reject an RRC configuration using more than 56 PUCCH resources.”

=> With this change the CR is agreed in R2-1818940

Other PUCCH

R2-1816326 CR on PUCCH-ConfigCommon vivo CR Rel-15 38.331 15.3.0 0518 - F NR_newRAT-Core

- Intel thinks that the NW must always configure PUCCH-Config. Ericsson thinks that the CR clarifies that it is mandatory only for non-initial BWPs. Vivo agrees.

=> Revert to the previously IPA version (since the PUCCH-ConfigCommon has no use in ServingCellConfigCommon if the NW also provides a PUCCH-Config)

=> Revised in R2-1818941

R2-1816902 CR to 38.331 on PUCCH-MaxCodeRate in PUCCH-Config Qualcomm Incorporated draftCR Rel-15 36.331 15.3.0 NR_newRAT-Core

- Huawei thinks the CR is reasonable but would like to change the name of the condition tag to PUCCHformat234. Ericsson thinks that we don’t need a condition. It is normal NW task to set values that are needed. Huawei agrees that no CR is needed (current field description is clear).

=> RAN2 confirms that the NW configures this field for formats 2, 3 and 4 since there is no default value. No need to capture NW behaviour in the spec.

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PDSCH/PUSCH

rbg-Size

R2-1816571 CR to 38.331 on rbg-Size in PDSCH-Config, PUSCH-Config and ConfiguredGrantConfig
Qualcomm Incorporated draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core
- Sony and Samsung agree with QC. ZTE also agrees. Ericsson also thinks it is correct even though the formulations are a bit unusual due to having different behaviours upon absence depending on the type.
=> Update impact analysis: If the UE implements the change but the NW does not, UE and NW may have different understanding on the configured rbg-Size which may lead to reception problems. If the NW implements the change but the UE does not, UE and NW may have different understanding on the configured rbg-Size which may lead to reception problems.
=> With this change the CR is agreed in R2-1818942

QCL-Info

Related to RAN1's LS on description of QCL" (R1-1811937/R2-1816212)

R2-1817715 Update of the usage of QCL type-C Intel Corporation CR Rel-15 38.331 15.3.0 0692 - F NR_newRAT-Core
=> CR is agreed

R2-1816672 CR to 38.331 on TCI-State ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0561 - F NR_newRAT-Core

R2-1817825 Correction to QCL restrictions Ericsson CR Rel-15 38.331 15.3.0 0702 - F NR_newRAT-Core

R2-1816652 Corrections on QCL-info Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0553 - F NR_newRAT-Core

Configuration of MIMO Layers:

RAN2 is waiting for a reply LS from RAN1.

R2-1816539 Per serving cell MIMO layer configuration MediaTek Inc. CR Rel-15 38.331 15.3.0 0543 - F NR_newRAT-Core
- Ericsson thinks that the NW should send this to all UEs, i.e., it should not have to figure out whether the UE capabilities are "ambiguous" and send this field only if they are. MediaTek, Intel and Nokia agree that the NW should send this field to all UEs and that all UEs should act accordingly. Ericsson thinks that this is of course NBC but Ericsson is fine with it if OK for UE vendors. If not, we could consider adding a UE capability.
- Intel, DCM, MediaTek, Nokia and Ericsson think it should be per serving cell (not per BWP). QC thinks we should wait for the RAN1 input.
=> Change to "Indicates the maximum MIMO layer to be used for PDSCH and CSI-RS reporting in all BWPs of this serving cell."
=> The rank configuration parameter is introduced on serving cell level
=> Add a per-UE capability bit by which the UE indicates whether it supports the new DL configuration field. UEs reporting one or more ambiguous band combiantions shall set this bit to true (support the new DL rank parameter). Generally, this capability is mandatory with capability signalling (bit considered as IOT bit).
=> Add Need code (Need M)
=> Revised in R2-1818943
=> Discuss further offline once LSs from RAN1 and RAN4 are received (Offline 901)

Other PDSCH/PUSCH

R2-1816646 Correction for rate matching Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0547 - F NR_newRAT-Core
- QC thinks that CORESET based pattern is also allowed on cell level. Huawei thinks that at least in IDLE the CORESETs are not even defined. VIVO thinks that one could even there use the CORESET#0. Ericsson could imagine that it could be useful to configure also CORESET based rate matching on cell level since a UE could rate match around a CORESET used by UEs operating on that other BWP. ZTE agrees that it could be useful but

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agrees with Huawei that the L1 specs do not support this. Hence ZTE supports the Huawei CR.
- Nokia thinks that the impact analysis is not correct for the case where the NW is not implemented based on this CR.

=> Clarify in impact analysis that: “If the UE implements the CR but the NW does not, the NW might configure CORESET based rate matching on cell level which the UE does not support. Hence, the UE may reject the configuration.”
=> Revised in R2-1818944
=> Can check offline whether the intention of RAN1 was really not to allow rate matching around CORESETs on cell level. (Offline 902)

R2-1817486 CR on pdsch-TimeDomainAllocationList and pusch-TimeDomainAllocationList Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0654 - F NR_newRAT-Core
=> Update impact analysis and reason for change to clarify that both can result in a mismatch => Update impact analysis and reason for change to clarify that both can result in a mismatch of the assumed time domain allocations.
=> Revised in R2-1818945 (Offline 903)

R2-1816500 Correction on PDSCH and PUCCH description vivo CR Rel-15 38.331 15.3.0 0535 - F NR_newRAT-Core
=> Covered by rapporteur CR and by earlier IPA CRs.
=> Not agreed

R2-1817489 CR on dmrs-AdditionalPosition Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0657 - F NR_newRAT-Core
=> Correct field description in rapporteur CR (since the CR does not have any functional change anyway)
=> CR itself is not agreed.

R2-1818487 CR on description of k0 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0781 - F NR_newRAT-Core Late
=> CR is agreed

Whether to allow reconfiguring locationAndBandwidth of initialBWP:

R2-1816671 Bandwidth of initial BWP in Option2 operation ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core
- QC thinks that this would be a big change since it changes the relation between ServingCellConfigCommon and ServingCellConfigCommonSIB. QC thinks this is not necessary since one can use Option 1 if one wants UEs to use BWPs with different widths. Ericsson agree with QC that in both, option 1 and option 2 the width of the initial BWP cannot be changed, i.e., is always as configured as in SIB1. And in option 1 one may then configure additional BWPs with UE specifically configured BW.

=> The NW cannot override/change the width of the initial BWP by dedicated signalling (it remains always as configured in MIB (option 1) or SIB1 (option 2).
=> Noted

Option 1 details:

R2-1817833 Clarification for the implementation of UE feature list item 6-1 (BWP op1) Intel Corporation, NTT DoCoMo Inc CR Rel-15 38.331 15.3.0 0414 1 F NR_newRAT-Core R2-1814967
- Ericsson thinks that the formulation of the field description looks good. But the wording on the cover page (“UE shall consider the initial BWP configuration as not valid for the duration of the connected mode”) is misleading since the UE is meant to maintain and use the initial BWP configuration (at least for CORESET#0).

=> Update cover page to align with the field description
=> Align the terminology “dedicated BWP” with what is used in 306 for “6-2” or alternatively with the terminology used in the RRC configuration (“additional bandwidth parts”).
=> Also clarify for the initialUplinkBWP

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=> Revised in R2-1818946 (Offline 904)
- ZTE would like to clarify that the NW can reconfigure the UE from option 2 to option 1 by releasing the dedicated parameters in initialDownlinkBWP/ initialUplinkBWP and adding an additional (dedicated) BWP. QC is not sure whether this is possible and supported.

BWP ID handling:
Was discussed but not resolved at RAN2-103bis.

R2-1817333 Corrections on BWP ID Spreadtrum Communications CR Rel-15 38.331 15.3.0 0640 - F NR_newRAT-Core
- Intel thinks that RAN1 made a big NBC change on this which this CR proposes to follow. Nokia agrees with Intel that last time we had the other option in which the NW simply ensures continuity. Ericsson agrees that that would be BC and it would not require any CR here. Huawei prefers to follow RAN1's NBC change. RAN1 has done many other NBC changes. Ericsson thinks that we should avoid NBC changes if they are not necessary to fix any problem. Samsung agrees with Intel, Nokia and Ericsson.

=> Discuss offline whether to stick to the current RRC specification and rely on the NW to handle the configuration appropriately. This avoids an unnecessary NBC change. (Offline 906, Spreadtrum)
=> Revised in R2-1819076

R2-1817484 CR on BWP ID Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0652 - F NR_newRAT-Core

R2-1818335 Clarification for BWP ID Handling LG Electronics Inc. CR Rel-15 38.331 15.3.0 0753 - F NR_newRAT-Core

RRC-Based BWP switching for SCell:
Discussed at RAN2-103bis based on R2-1813661 and not agreed.

R2-1817485 CR on first Active BWPs for Scell Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0653 - F NR_newRAT-Core
=> Not agreed

Other BWP-related:

R2-1816654 Correction on InitialDownlink and Uplink BWP Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0555 - F NR_newRAT-Core
=> Not agreed

R2-1816669 CR for ServingCellConfigCommon in 38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0232 1 F NR_newRAT-Core R2-1813939
=> Impact analysis to be improved
=> Agreed in R2-1819029

R2-1817833 Clarification for the implementation of UE feature list item 6-1 (BWP op1) Intel Corporation, NTT DoCoMo Inc CR Rel-15 38.331 15.3.0 0414 1 F NR_newRAT-Core R2-1814967
=> Covered by breakout session

CSI-RS

AperiodicTriggeringOffset
Related to incoming LS from RAN1 (R2-1816211/R1-1811936, contact Ericsson)

R2-1817824 Correction to aperiodicTriggeringOffset Ericsson CR Rel-15 38.331 15.3.0 0701 - F NR_newRAT-Core
=> Handled by breakout session on L1 parameters

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R2-1817835 Correction of aperiodic-CSI triggering offset value Intel Corporation CR Rel-15 38.331 15.3.0 0703 - F NR_newRAT-Core
=> Handled by breakout session on L1 parameters

Other CSI-RS related corrections/clarifications:

R2-1816429 CR on powerControlOffset vivo CR Rel-15 38.331 15.3.0 0522 - F NR_newRAT-Core
=> Agreed

R2-1816670 CR for the optional configuration of subbandSize ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0560 - F NR_newRAT-Core
=> Reword the addition to " if csi-ReportingBand is absent the UE shall ignore this field. "
=> Agreed in R2-1819028

R2-1816499 Field description of nrofReportedRS vivo CR Rel-15 38.331 15.3.0 0534 - F NR_newRAT-Core
=> Changes to be included in the rapporteur CR

R2-1816976 Clarification on the Description for resourceType in CSI-ResourceConfig Samsung Electronics CR Rel-15 38.331 15.3.0 0461 1 F NR_newRAT-Core R2-1815310
=> Already covered

Power Class, Pmax and Power Control

Configured output power requirements:

Discussed last meeting but postponed due to lack of information from RAN4.

R2-1818446 Inter-band EN-DC Configured Output Power requirements Ericsson CR Rel-15 38.331 15.3.0 0395 1 F NR_newRAT-Core R2-1814908 Late
=> Change the values to 0, 6 spare, spare
=> Change default to 6 dB
=> We will review status on Friday whether RAN4 have finally concluded the values.
=> Revised in R2-1819031

R2-1819031 Inter-band EN-DC Configured Output Power requirements Ericsson CR Rel-15 38.331 15.3.0 0395 2 F NR_newRAT-Core

✉ **[104#03][NR] Inter-band EN-DC Configured Output Power (Ericsson)**
To align CR with RAN4 decisions
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

R2-1818004 CR on support of inter-band EN-DC UL power control Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0722 - F NR_newRAT-Core

Power Control and P-max:

Related to RAN4's confirmation of our power control changes (R2-1816230).

R2-1816466 Discussion on Power Class and Pmax for FR1 and FR2 OPPO discussion
=> Noted

RRC Buffer Size restriction

R2-1816511 RRC buffer size restriction MediaTek Inc. discussion Rel-15 NR_newRAT-Core
=> Noted

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R2-1816512 Introduce RRC buffer size in NR MediaTek Inc. CR Rel-15 38.306 15.3.0 0050 - F NR_newRAT-Core
=> Offline discussion to finalise the wording
=> Revised in R2-1819032 (offline discussion 905)

R2-1819032 Introduce RRC buffer size in NR MediaTek Inc. CR Rel-15 38.306 15.3.0 0050 1 F NR_newRAT-Core
- Fix the " Other specs " on the coversheet
=> Agreed in R2-1819089

SRS

R2-1816649 Remaining issues on SRS-config Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0550

=> Changes to be merged with a revision of R2-1818558 (Offline discussion 951)
=> CR is not agreed

✉ **[104#04][NR] SRS Config (Huawei)**
Changes from R2-1816649 to be merged into a revision of R2-1818558
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

RACH

R2-1816573 CR to 38.331 on RACH-ConfigGeneric Qualcomm Incorporated draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core
=> To be included in the rapporteur CR

R2-1817487 CR on the SSB based RACH configuration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0655 - F NR_newRAT-Core
=> To be concluded offline whether this is needed
=> Impact analysis to be updated
=> Revision number R2-1819033 (Offline discussion 951)

R2-1819033 CR on the SSB based RACH configuration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0655 1 F NR_newRAT-Core
=> Agreed

R2-1817030 Correction on the need code in RACH-ConfigCommon Samsung CR Rel-15 38.331 15.3.0 0592 - F NR_newRAT-Core
=> Remove the Need S in the rapporteur CR

RLM & BFR

R2-1816934 Corrections on number of RadioLinkMonitoringRS condifuration OPPO CR Rel-15 38.331 15.3.0 0587 - F NR_newRAT-Core
=> To be simplified to avoid duplication of RAN1 text and include a reference to the RAN1 spec
=> Revised in R2-1819034 (Offline discussion 952)

R2-1819034 Corrections on number of RadioLinkMonitoringRS condifuration OPPO CR Rel-15 38.331 15.3.0 0587 1 F NR_newRAT-Core
=> Agreed

R2-1818486 CR on RadioLinkMonitoringConfig Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0780 - F NR_newRAT-Core Late
=> Not agreed

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Other

R2-1818533 CR to 38.331 on RNI-Value Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0784 F NR_newRAT-Core Late
=> Not agreed

R2-1817828 Clarification on hopping parameters for PUSCH Ericsson CR Rel-15 38.331 15.3.0 0416 2 F NR_newRAT-Core R2-1815924
Moved from 10.4.1.3.1.1 to 10.4.1.0

=> To be moved back to L1 parameters AI
=> Postponed

Late

R2-1816648 Corrections on PDCCH-ConfigCommon Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0549 - F NR_newRAT-Core Late

Withdrawn

R2-1816540 Per BWP MIMO layer configuration MediaTek Inc. CR Rel-15 38.331 15.3.0 0544 - F NR_newRAT-Core Withdrawn

R2-1817375 Cell accessibility Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0642 - F NR_newRAT-Core Withdrawn

10.4.1.3.1.2 Other

Including output of email discussion [103bis#15][NR] Applicability of 38.331 to EN-DC (Huawei)

Email discussion [103bis#15][NR] Applicability of 38.331 to EN-DC (Huawei)

R2-1817840 Corrections to the applicability of 38.331 to EN-DC Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0269 2 F NR_newRAT-Core R2-1815809
- Huawei explained that the CR did not try to align the variant so "in EN-DC" wording assuming it was understandable
=> Revised in R2-1818854 (Offline discussion 28)

R2-1818854 Corrections to the applicability of 38.331 to EN-DC Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0269 3 F NR_newRAT-Core
=> Agreed

L2 parameters

R2-1817015 Clarification on the presence of ra-ResponseWindow Samsung CR Rel-15 38.331 15.3.0 0187 1 F NR_newRAT-Core R2-1813642
=> Agreed

R2-1817029 Clarification on phr-Type2OtherCell Samsung CR Rel-15 38.331 15.3.0 0591 - F NR_newRAT-Core
=> Reword " If UE is not configured with E-UTRA MAC entity, it ignores the field." to "Network sets the value to FALSE if the UE is not configured with an E-UTRA MAC entity"
=> Impact analysis needs to be updated
=> Revised in R2-1818844 (Offline discussion 25)

R2-1818844 Clarification on phr-Type2OtherCell Samsung CR Rel-15 38.331 15.3.0 0591 1 F NR_newRAT-Core
=> Agreed

R2-1817605 Correction to RA prioritization Nokia, Nokia Shanghai Bell CR Rel-15 38.321 15.3.0 0496 1 F NR_newRAT R2-1815539 Revised
=> Revised to: R2-1817623

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R2-1817623 Correction to RA prioritization Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0496 2 F NR_newRAT R2-1817605
- Ericsson prefer to avoid changing the parameter names
- Huawei prefer to clarify in the field description
=> Not agreed

R2-1816674 CR for the usage of ra-Prioritization in RACH-ConfigDedicated ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0563 - F NR_newRAT-Core
- Nokia think it is already clear in MAC spec that this parameters is only used in HO.
- Ericsson think it is also clear in RRC as the ra-Prioritization in RACH-ConfigDedicated can only be included in reconfig with sync
=> Only change needed is the missing Need S.
=> Need S correction to be added to the rapporteur CR

Other

R2-1816724 Clarification on SRB3 release Intel Corporation CR Rel-15 38.331 15.3.0 0569 - F NR_newRAT-Core
=> Agreed

R2-1817104 Remaining issues on UL path switch for SN terminated split bearer ZTE, Sanechips discussion NR_newRAT-Core
- Intel think this was not the original understanding and is the reason we have 2 containers
- ZTE agree but think that in practice the network can do this.
- Ericsson think we agreed that a node shall not modify the configuration from another node. How does the SN know it needs to do PDCP recovery. ZTE think that RAN3 would have to specify that MN can inform SN to do PDCP recovery.
- Samsung think that SN can always set the PDCP recovery flag.
=> RAN2 confirms that the MN/SN are not expected to be able to understand the radio bearer configuration of the other node, and are not expected to modify the radio bearer configuration of the other node. It is possible that a specific MN/SN implementation may be able to understand the radio bearer configuration of the other node, or even modify the radio bearer configuration.

R2-1818213 CR on PSCell (SPCell of SN) change (38.331) Samsung Electronics GmbH CR Rel-15 38.331 15.3.0 0745 - F NR_newRAT-Core
- Ericsson think the CR is not needed
- Huawei doesn't see why SCell should be changes to SpCell when there is a change of PCell.
- Huawei think it just needs to be clear that the PSCell does not need to be released.
- Samsung would like to make it clear that in EN-DC the PSCell is not released when PSCell is changed.
=> No agreed

R2-1818215 CR on PSCell (SPCell of SN) change (36.331) Samsung Electronics GmbH CR Rel-15 36.331 15.3.0 3799 - F NR_newRAT-Core
=> Modify the change to say " In EN-DC, the PSCell can only be changed using the Reconfiguration with sync procedure and by EN-DC release and addition."
=> Update the impacted functionality to "PSCell " change, and correct the consequences if not approved
=> Agreed in R2-1818855

R2-1817392 Clarification of SCG failure before T304 expiry Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0645 - F NR_newRAT-Core
- Ericsson wonder if the MAC rach procedure is meant to continue until T304 expires. Qualcomm agree his is endless RACH in MAC and the procedure is controlled but RRC.
=> Offline to check the LTE DC behaviour
- Update from offline: LTE DC does not wait for T307 to expire so NR specs are aligned with LTE DC and no CR is needed
=> CR is not agreed

R2-1817391 EN-DC configurations upon re-establishement and SGC failure Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3749 - F NR_newRAT-Core
=> Offline discussion to conclude what changes are required
=> Revised in R2-1818856 (Offline discussion 29)

R2-1818856 EN-DC configurations upon re-establishement and SGC failure Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3749 1 F NR_newRAT-Core

✉ **[104#05][NR] EN-DC configurations upon re-establishment and SGC failure (Qualcomm)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

R2-1816453 Definitions addition of network nodes CATT CR Rel-15 38.331 15.3.0 0526 - F NR_newRAT-Core
=> No agreed

10.4.1.3.3 Connection establishment procedure

Access control and establishment cause are discussed in the access control agenda items 10.4.1.8.x

Signalling connection only

R2-1818010 Consideration on signalling only connection Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core
- Intel think this adds one more scenario for the UE to support and wonders if there is a strong motivation
- Ericsson support the proposal.
- OPPO think SRB1 can transfer the NAS PDU and the only difference is that SRB2 is lower priority
- Nokia think one motivation was for MDT but that is not supported in R15. LG think it is ok to support the proposal .
- ZTE think that RAN3 is more impacted group and have made the change.
- Samsung think that the 2 use cases from SA2 do not require SRB2
- MediaTek think that SRB1 only is sufficient

P2
- ZTE think the motivation is that it is simpler to exclude this but think it is actually more complex to exclude it.
- Nokia also think that we should support re-establishment when we have signalling connection only
- OPPO think we need to discuss UE mobility behaviour.
- Qualcomm think RAN3's context fetch requires a user plane to be setup. LG agree this is true but we can have fallback in response to re-establishment.
-

Show of hands
1 Support re-establishment for signalling only connection [7]
2 Do not support re-establishment for signalling only connection [6]

Agreements
1 Configuration of SRB2 without any DRB (after SMC) setting is not support in R15

Working assumption (that can be revised when we see the CRs for this)
1 RRC re-establishment procedure is supported before SRB2 and DRB are established.

R2-1816492 open issues for RRC signaling only connection OPPO discussion Rel-15 NR_newRAT-Core

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- Ericsson think there is no use case for inactive and signalling only connection. ZTE have the same view
- CATT think if we support MDT then we will need to support inactive.
- Intel think that logged MDT would not need the support of inactive.
- LG is of with the proposal and MDT can be discussed in future

P3

- Nokia think RLM /RRM need to be support and UE needs to detect RLF when the link goes back.
- ZTE is concerned with the agreement from yesterday that re-establishment is not supported. Ericsson prefer to stick with the agreement. As we don't support HO there is not point to optimise re-establishment. Intel agree with Ericsson.
- LG have the same view as ZTE and think UE could re-establish in the same cell.
- Qualcomm would also like to allow re-establishment.
- LG ask what would happen if SRB1 IP failure occurs and re-establishment is not supported.

Agreements
1 RRC_INACTIVE state is not supported for RRC signalling only connection.

R2-1818011 CR on supporting sgnalling only connection Huawei, Hisilicon CR Rel-15
38.331 15.3.0 0723 - F NR_newRAT-Core
=> Revised in R2-1818902 (Offline discussion 53) to reflect the decisions above

R2-1818902 CR on supporting sgnalling only connection Huawei, Hisilicon CR Rel-15
38.331 15.3.0 0723 1 F NR_newRAT-Core

- Intel think this creates a new scenario where the network may not send the first reconfig after re-establishment and would like to capture that after a re-establishment the network will always provide the reconfiguration.
- Huawei think the consequences of this are not clear and it is not good to mandate this behaviour.
- Intel want to clarify that the re-establishment procedure is a combination of re-establishment and reconfiguration. ZTE think there is no big issue for the UE to process the messages one by one.
- Samsung prefer not to support re-establishment but fallback is an option
- Qualcomm has some sympathy for Intel as there seems there might be some impact

=> Offline discussion to conclude

- Update from offline: Options are to do a show of hand to not support re-establishment.

Show of hands

1 Support re-establishment for signalling only connection [6]
2 Do not support re-establishment for signalling only connection [9]

Agreements
1 Do not support re-establishment for signalling only connection (change to previous working assumption). UE will go to idle and trigger NAS recovery.

✉ **[104#06][NR] Signalling only connection (Huawei)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

R2-1818012 CR on supporting sgnalling only connection Huawei, Hisilicon CR Rel-15
36.331 15.3.0 3784 - F NR_newRAT-Core

R2-1816719 Reestablishment for signalling-only connection ZTE Corporation, Sanechips discussion

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R2-1817312 CR to 38.331 on Signaling-only connection Ericsson CR Rel-15 38.331 15.3.0 0634 - F NR_newRAT-Core

R2-1817313 Remaining aspects of signaling-only connections Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818229 Remaining issue on signalling only connection LG Electronics France discussion Rel-15 NR_newRAT-Core

R2-1818228 UE re-establishement for signaling only connection Apple discussion Rel-15 NR_newRAT-Core

Default configuration (update of agreed in principle CR)

R2-1817820 Clarification on handling of default parameters Ericsson CR Rel-15 38.331 15.3.0 0421 2 F NR_newRAT-Core R2-1815825
=> Agreed

R2-1818387 Correction on default configuration Samsung Electronics CR Rel-15 38.331 15.3.0 0768 - F NR_newRAT-Core
=> Impact analysis to be updated as there is no interoperability impact from this CR
=> Agreed in R2-1818903

Other

R2-1818462 CR to 38.331 on HO support in Setup Procedure Ericsson CR Rel-15 38.331 15.3.0 0778 - F NR_newRAT-Core
- Huawei think the change is not required as the network should not initiate the procedure before security is activated.
- Samsung this should be left to the network implementation. Think only the second change is needed.
- LG think that only the second change is needed.
- Samsung think if the concern is to avoid a security threat from a fact eNB attempting to handover the UE we should specify the behaviour.

=> Update the coversheet to clarify the security motivation for the first change
=> Check offline that the behaviour is aligned to the redirection case regarding whether NAS recovery is triggered
=> Revised in R2-1818904 (Offline discussion 55)

R2-1818904 CR to 38.331 on HO support in Setup Procedure Ericsson CR Rel-15 38.331 15.3.0 0778 1 F NR_newRAT-Core
=> Agreed

R2-1818461 HO support in Setup Procedure Ericsson discussion Rel-15 NR_newRAT-Core

R2-1816718 Miscellaneous corrections to RRC establishment procedure ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0568 - F NR_newRAT-Core R2-1814031
=> The correction to the name of the connEstFailureControl to be included the rapporteur CR
=> CR is not agreed

R2-1816795 Corrections for security configurations during setup of SRB1 Ericsson CR Rel-15 38.331 15.3.0 0575 - F NR_newRAT-Core
=> Not agreed (covered by an agreed in principle CR)
Later found that it was not fully covered by the agreed in principle CR
=> Remove the changes to the field description
=> Agreed in R2-1819061

R2-1816794 Corrections for security configurations during setup of SRB1 Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817294 CR to 38.331 on piggybacking of NAS messages Ericsson CR Rel-15 38.331 15.3.0 0629 - F NR_newRAT-Core

=> Removal of FFS to be included in the rapporteur CR
=> CR is not agreed

R2-1817702 Correction on DC subcarrier usage in SetupComplete message Intel Corporation CR Rel-15 38.331 15.3.0 0687 - F NR_newRAT-Core
=> Add clarification that reportUplinkTxDirectCurrent is not include RRCSetup
=> Revised in R2-1818906 (Offline discussion 54)

R2-1818906 Correction on DC subcarrier usage in SetupComplete message Intel Corporation CR Rel-15 38.331 15.3.0 0687 1 F NR_newRAT-Core
=> Agreed

R2-1818379 Correction for RRC connection establishment procedure on UTDC SHARP Corporation CR Rel-15 38.331 15.3.0 0766 - F NR_newRAT-Core

R2-1817331 CR for connEstFailureControl Spreadtrum Communications CR Rel-15 38.331 15.3.0 0639 - F NR_newRAT-Core
=> Corrections to references to RAN1 specs to be included in the rapporteur CR o spec references (if not already covered)
=> CR is not agreed

R2-1818013 CR on correction of T300 expiry Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0724 - F NR_newRAT-Core
=> Correction in 7.1.1 to be included in the rapporteur CR
=> CR is not agreed

R2-1818361 Correction on Qoffset_temp application condition Samsung Electronics CR Rel-15 38.331 15.3.0 0763 - F NR_newRAT-Core
- Qualcomm think it is not the intention to only apply this first time the problem occurs.
- Samsung think the intent is that the Qoffsettemp is only applied for a limited time.
=> Not agreed

R2-1818453 Timer for RRC Setup establishment procedure (T300) Ericsson discussion Rel-15 NR_newRAT-Core

Withdrawn

R2-1818019 Corrections for T300 expiry Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0726 - F NR_newRAT-Core Late

10.4.1.3.4 Connection reconfiguration procedure

Including corrections related to handover (i.e. reconfig with sync)

Update of agreed in principle CR

R2-1816556 Correction to full configuration Google Inc., Ericsson, Sharp CR Rel-15 38.331 15.3.0 0482 2 F NR_newRAT-Core R2-1816047
=> Agreed

NAS indication of user plane resources

R2-1818308 Correction on indication for user plane resource release LG Electronics, MediaTek Inc., Ericsson, Intel Corporation, Nokia, Nokia Shanghai Bell, OPPO CR Rel-15 38.331 15.3.0 0750 - F NR_newRAT-Core
=> Impact analysis to be added to the coversheet.
=> Other coversheet improvement can also be made.
=> Agreed in R2-1818907

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R2-1817516 CR on SDAP entity release Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0659 - F NR_newRAT-Core

R2-1818380 Correction for NAS indication during SDAP configuration SHARP Corporation discussion Rel-15 NR_newRAT-Core
=> Agreed in principle CR in R2-1818506 is revised in R2-1818908 to include the change proposed by this paper (Offline discussion 56)

R2-1818908 CR on SDAP reconfiguration handling Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0509 2 F NR_newRAT-Core
=> Agreed

NAS messages

R2-1817744 Missing procedure text in RRC Reconfiguration Ericsson CR Rel-15 38.331 15.3.0 0697 - F NR_newRAT-Core Revised
=> Revised to R2-1817980

R2-1817980 Missing procedure text in RRC Reconfiguration Ericsson, MediaTek Inc. CR Rel-15 38.331 15.3.0 0697 1 F NR_newRAT-Core R2-1817744
=> Impact analysis and consequences if not approved to be improved
=> Agreed in R2-1818909

R2-1816279 Clarification of dedicated NAS message receiving CATT CR Rel-15 38.331 15.3.0 0507 - F NR_newRAT-Core

R2-1817542 Correction on dedicatedNAS-MessageList handling Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0666 - F NR_newRAT-Core

MIB reading at reconfig with sync (response to RAN1 LS)

R2-1816305 Acquiring MIB Upon Handover Samsung Electronics Co., Ltd discussion Rel-15 NR_newRAT-Core
- LG agree with the proposals and think MIB is not required to always acquire it.
- OPPO think that the UE could have the information based on UE implementation before the handover is received.
- Huawei think a lot can be left to UE implementation. Current requirement is that UE is always required to acquire it and if we relax this requirement then we have more strict synchronisation between source and target.
- Ericsson think we decided to model it as the UE always acquiring it, but there are cases where the UE already has the info already and the UE could skip acquiring it.
- Intel think the requiring MIB before HO is a new requirement compared to LTE. We need to be careful to avoid delay by requiring UE to always acquire it. RAN4 have already defined some synchronisation requirements.
- Vivo share the comment from Intel.

Agreements
1 RAN2 understand that there are cases where the UE has to have the timing information before initiating random access on the target cell. For these cases there are sub cases where the UE can acquire the timing information from the source cell and other sub case where the UE cannot acquire the timing information from the source cell and in the latter case the UE has to acquire MIB before the random access.
2 RAN2 wrote the spec that the UE acquires MIB with the understanding that the UE may omit this if it already has the timing information, or the timing information is not needed for random access
3 Add a note to the spec to clarify that the UE may omit reading the MIB if the UE already has the required timing information, or the timing information is not needed for random access

=> Draft LS to RAN1 in R2-1818910 (Offline discussion 57, Samsung)

=> Draft CR to 38.331 CR 0787 to add note as per agreement 3. R2-1818911 (Offline discussion 57)

R2-1818910 [DRAFT] Reply LS on network synchronization for handover purposes Samsung LS out Rel-15 NR_newRAT-Core To:RAN1
=> Approved in R2-1818999

R2-1818911 Clarification on MIB Acquisition Samsung CR Rel-15 38.331 0787 - F NR_newRAT-Core
=> Agreed

R2-1816327 Clarification on MIB acquisition during SpCell change vivo, Intel Corporation, Xiaomi discussion Rel-15 NR_newRAT-Core

R2-1816328 Clarification on MIB acquisition during SpCell change vivo, Intel Corporation, Xiaomi CR Rel-15 38.331 15.3.0 0519 - F NR_newRAT-Core

R2-1818252 Reply LS on MIB acquisition during SpCell change vivo LS out Rel-15 NR_newRAT-Core To:RAN1

R2-1816306 Correction to MIB reading upon handover Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0511 - F NR_newRAT-Core

R2-1816307 Reply LS on network synchronization for handover purposes Samsung Electronics Co., Ltd discussion Rel-15 NR_newRAT-Core

R2-1817827 Draft reply LS on network synchronization for handover purposes Ericsson LS out Rel-15 NR_newRAT-Core To:RAN1

Reconfig with sync

R2-1816552 Correction to reconfiguration with sync Google Inc. CR Rel-15 38.331 15.3.0 0545 - F NR_newRAT-Core
- Ericsson think reconfig with sync is allowed in resume message when key change is not used.
- LG ask if the resume complete will be sent to the target cell.
- Google wonder how handover can be triggered without an measurement reports.
- Ericsson think it could be just to reconfigure some parameters than can only be reconfigured with reconfig with sync
- Huawei think including the reconfig with sync is a corner case and do not see much use. And think many things would have to be added.

=> Change the text to say " The field cannot be included in RRCResume"
=> Agreed in R2-1818912

R2-1818459 HO support in Resume Procedure Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818460 CR to 38.331 on HO support in Resume Procedure Ericsson CR Rel-15 38.331 15.3.0 0777 - F NR_newRAT-Core

R2-1817354 CR on frequencyInfoDL for handover Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0262 1 F NR_newRAT-Core R2-1814125
=> Revised in R2-1818564

R2-1818564 CR on frequencyInfoDL for handover Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0262 2 F NR_newRAT-Core
=> Not agreed

R2-1817531 Handover terminology clean-up Ericsson CR Rel-15 38.331 15.3.0 0663 - F NR_newRAT-Core

✉ **[104#31][NR] Reconfig with sync terminology (Ericsson)**
Review the handover and reconfig with sync terminology to identify if any ambiguity or problem is caused by the mix of terminology and prepare a CR to address it.
Intended outcome: CR submitted to next meeting
Deadline: Thursday 2019-02-07

CA duplication

R2-1817059 Remaining issues on SRB duplication ZTE, Sanechips discussion NR_newRAT-Core
=> Offline discussion to conclude (Offline discussion 59)

R2-1819047 [Offline 059] logical channel IDs & SRB duplication ZTE Corporation report

Agreements
1. RAN2 confirms that for SRB duplication the network may configure duplication in the DL only, in which case all UL transmission should be made through the logical channel of the primary path (which needs to be configured to the UE at least for CA based duplication)
2. RAN2 confirms that the within the RAN2 specifications the logical channel ID(s) for an SRB are configurable and no special logical channel IDs will be reserved for SRB. (A network implementation may use a specific logical channel ID for SRBs)

R2-1817060 CR on the logical channel ID for SRB ZTE, Sanechips CR Rel-15 38.331 15.3.0 0596 - F NR_newRAT-Core

Other

R2-1816796 Corrections regarding SpCell Ericsson CR Rel-15 38.331 15.3.0 0576 - F NR_newRAT-Core
=> Not agreed

R2-1816909 Reset RLF timer and counter while configuration change MediaTek Inc. CR Rel-15 38.331 15.3.0 0300 1 F NR_newRAT-Core R2-1814277
=> Not agreed

R2-1817037 Removal of creation of MAC entity Samsung CR Rel-15 38.331 15.3.0 0593 - F NR_newRAT-Core

R2-1817035 The handling of MAC entity in RRC Samsung discussion Rel-15 NR_newRAT-Core

R2-1817328 CR for CellGroupConfig description Spreadtrum Communications CR Rel-15 38.331 15.3.0 0636 - F NR_newRAT-Core

R2-1817329 CR for reestablishPDCP correction Spreadtrum Communications CR Rel-15 38.331 15.3.0 0637 - F NR_newRAT-Core

R2-1818375 Correction on timer T3xx Samsung Electronics CR Rel-15 38.331 15.3.0 0765 - F NR_newRAT-Core

Withdrawn

R2-1818020 Corrections for Timer for delay budget reporting Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0727 - F NR_newRAT-Core

10.4.1.3.5 Connection re-establishment procedure

Security related

R2-1817842 Discussion on error and key handling on UE for Reestablishment Procedure in case of N2 handover failure Huawei, HiSilicon discussion Rel-15
=> Noted

R2-1817843 Correction for restablishment to the target cell Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0705 - F NR_newRAT-Core
=> Not agreed

R2-1817841 Correction for handover failure (T304 expiry or Inability to comply with RRCReconfiguration) Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0704 - F NR_newRAT-Core

- LG think this error case is very rare and we don't need to handle this in R15 .
- Samsung share the view with LG that this does not need to be optimised for
- Ericsson also agree with LG and Samsung
- Huawei think this is very straight forward for the UE.
- Qualcomm think this can be left to the UE and a smart UE might undo the NAS container.

=> Not agreed

R2-1817212 RRC Reestablishment during N2 Handover Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818455 Security Handling in Re-establishment procedure Ericsson discussion Rel-15 NR_newRAT-Core

R2-1816493 Security algorithom update in RRC reestablishment message OPPO discussion Rel-15 NR_newRAT-Core

Other

R2-1816766 Ambiguity during transmission of RRCReestablishmentComplete Intel Corporation discussion Rel-15 NR_newRAT-Core

- Samsung ask if this problem is in LTE. Intel explain that it doesn't exist in LTE as the re-establishment message itself can contain some configuration.
- ZTE think the solution is that the network just needs to provide an UL grant so that the complete message can be sent.
- Nokia agree with ZTE.
- LG think the smart gNB will not send the conflicting configuration in the same TTI and so can handle this case.
- Huawei think that the UE is required to send the re-establishment response before acting on the reconfiguration message.
- Ericsson think the 2 response messages might be send together in the same TTI.
- Update from offline: 3 options to be discussed more. 1 to update the re-establishment message, 2 to delay the complete message until the reconfiguration is processed; 3 make not specification changes which will likely cause the UE to initiate RACH
- Samsung see no problem with the UE doing random access.
- ZTE also think that it is not critical if RACH is triggered but also think some Phy configuration could be included in re-establishment
- Huawei think adding anything in the message is too late at this stage

=> Offline discussion to try to conclude (Offline discussion 78, Intel)

R2-1819051 [offline discussion 078] Re-establishment handling Intel Corporation report

- Ericsson would prefer to avoid the double RACHs. Maybe the UE processing could be relaxed for this case to avoid the problem.

Agreements
1: No change is made to the specifications. RACH, if needed, is considered acceptable for the re-establishment Complete.
2: No change is made to the specifications. No additional L2 parameter updates will be supported with first reconfiguration after re-establishment.
FFS Can be discussed whether the re-establishment processing time could be relaxed so that a UE implementation could avoid the RACH

R2-1816747 Ambiguity during transmission of RRCReestablishmentComplete Intel Corporation CR Rel-15 38.331 15.3.0 0573 - F NR_newRAT-Core

R2-1816749 Corrections to first reconfiguration after re-establishment Intel Corporation CR Rel-15 38.331 15.3.0 0574 - F NR_newRAT-Core

- ZTE think we could instead do a reconfig with sync in the first reconfiguration after re-establishment.
- Ericsson wonder if we change these parameters with the reconfiguration after re-establishment then there could be issues if the parameters were ones where the network and UE need to be synchronised.

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- Intel think the problem is that we did not carefully consider all these parameters when we introduced the re-establishment issue.

=> Discussed offline on how to progress with the CR together with offline discussion 78

R2-1817532 SCell release at RRC Reestablishment Ericsson CR Rel-15 38.331 15.3.0 0664 - F NR_newRAT-Core

=> In the re-establishment section remove the reference to this section

=> Agreed in R2-1818939

R2-1817414 Consideration on the RRC re-establishment across E-PLMN ZTE Corporation, Sanechips discussion NR_newRAT-Core R2-1815410

- Samsung think that PLMN selection is not be performed in connected.
- Ericsson think in most cases the UE can determine the UEs PLMN from the registered PLMN and the TA list.
- Intel think if there are 2 EPLMNs in the same cell then the network cannot know but in this rare case then fallback can be used.
- LG think PLMN selection is not performed in connected.
- ZTE think in this cases there is in NAS provided selected PLMN.
- Intel think if the cell only has one PLMN that is in the list of EPLMNs then there is no ambiguity and the network knows the PLMN that the UE is using.

=> RAN2 will take no action to address this case as it is assumed to be a rare case (as in LTE)

R2-1817417 CR to 38.331 on the RRC re-establishment across E-PLMN ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0481 1 F NR_newRAT-Core R2-1815411

R2-1817597 Integrity Check failure at RRC Re-establishment Ericsson CR Rel-15 38.331 15.3.0 0673 - F NR_newRAT-Core

- ZTE think first the first reconfiguration after re-establishment then the re-establishment should be triggered again

=> Only change needed are the addition of ", except if the integrity check failure is detected on the RRCReestablishment message "

=> Check offline the correct cause value to be provided to upper layers

=> Revised in R2-1818966 (Offline discussion 80)

R2-1818966 Integrity Check failure at RRC Re-establishment Ericsson CR Rel-15 38.331 15.3.0 0673 1 F NR_newRAT-Core

=> To be revised to be based on 15.3.0 (i.e. without the changes from the AI CRs)

=> Agreed in R2-1819069

Establishment cause value in MSG5

R2-1818472 RRC establishment cause in RRC reestablishment fallback case LG Electronics discussion Rel-15 NR_newRAT-Core

- RAN3 LS explains that the NGAP does not require an establishment cause to be provided from the UE in the case of fallback.
- Nokia think RAN3 have the flexibility to introduce it or not but the RAN3 spec does not require it.
- ZTE think whether the cause is required will actually come from SA2.

=> Postponed until we have a response from SA2

Re-establishment cause values

R2-1818014 Discussion on extending re-establishment causes Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1817598 Re-establishment causes in Msg3 and Msg5 Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817599 Re-establishment causes in Msg3 and Msg5 Ericsson CR Rel-15 38.331 15.3.0 0369 1 F NR_newRAT-Core R2-1814682

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10.4.1.3.6 Connection resume procedure

Including success, reject, fallback to connection establishment, and release to idle cases.
UE context definition

R2-1818450 Definition of UE AS Context Ericsson discussion Rel-15 NR_newRAT-Core
- Qualcomm prefer to include the suspendConfig. Samsung also prefer to include the suspendConfig. Intel also prefer this approach, Huawei also, LG also
=> Noted

R2-1818451 CR to 38.331 on UE AS Context - Alternative 2a - Include SuspendConfig Ericsson CR Rel-15 38.331 15.3.0 0773 - F NR_newRAT-Core
=> Change the name to " UE Inactive AS Context "
=> Other detail comments can be addressed offline
=> Revised in R2-188970 (Offline discussion 81)

R2-1818970 CR to 38.331 on UE AS Context - Alternative 2a - Include SuspendConfig Ericsson CR Rel-15 38.331 15.3.0 0773 1 F NR_newRAT-Core
=> Remove " discard the stored UE Inactive AS context and " from 5.3.1.1
=> Agreed in R2-1819103

R2-1818452 CR to 38.331 on UE AS Context - Alternative 2b - Exclude SuspendConfig Ericsson CR Rel-15 38.331 15.3.0 0774 - F NR_newRAT-Core

Pending RNAU

R2-1818410 Reception of RAN paging after pending RAN update LG Electronics Inc. CR Rel-15 38.331 15.3.0 0770 - F NR_newRAT-Core
- Ericsson think the first change is covered in the in principle agreed CR
=> Addition of references and the change from NG-RAN to RAN to be included in the rapporteur CR
=> CR is not agreed

R2-1817330 CR for pendingRnaUpdate set Spreadtrum Communications CR Rel-15 38.331 15.3.0 0638 - F NR_newRAT-Core
- Samsung ask if reject is considered as a failure. Ericsson interpret a reject not as a failure.
=> Change the bullet to "if resume is triggered due to an RNA update"
=> Remove "periodic" from the reason of change
=> Improve the consequences if not approved
=> Agreed in R2-1818971

R2-1817290 CR to38.331 on Handling of timer T380 Ericsson CR Rel-15 38.331 15.3.0 0626 - F NR_newRAT-Core
=> Not agreed

R2-1817090 Periodic RNAU correction Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0598 - F NR_newRAT-Core
- Ericsson think this is a corner case as the UE must move to another RNAU, get rejected and then move back to the original RNAU.
- Intel think there is no serious problem for the UE to send this RNAU to the network
- Intel explain the UE goes to idle if the UE reselects why T302 is running but not if T390 is running.
- Sharp think this could be a frequent case and we should avoid such unnecessary RNAU
- Qualcomm also think this is a corner case. Just one more RNAU is not a problem
=> Can check offline that the CRs agreed in last meeting and this meeting still ensure that the pending flag is set for periodic RNAU
=> Not agreed

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R2-1816878 Avoid unnecessary RNAU when barring is alleviated SHARP discussion NR_newRAT-Core

R2-1818279 Pending RNAU upon cell reselection while T390 is running Xiaomi Communications discussion

R2-1817563 Consideration on RRC_INACTIVE state handling Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1817565 RRC_INACTIVE state handling Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0669 - F NR_newRAT-Core

R2-1817288 Handling of timer T380 (periodic RNAU timer) Ericsson discussion Rel-15 NR_newRAT-Core

Security

R2-1817871 Clarification on the protection of RRCResumeRequest1 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0714 - F NR_newRAT-Core
=> Agreed in R2-1818977 (with material merged from other related CRs)

Resume error handling

R2-1816292 Handling of Resume Failure Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0179 2 F NR_newRAT-Core R2-1815838 Revised
=> Revised to R2-1818505

R2-1818505 Handling of Resume Failure Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0179 3 F NR_newRAT-Core R2-1816292 Late
=> Agreed

R2-1816856 Error handling in resume procedure ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0581 - F NR_newRAT-Core

MAC configuration at reject

R2-1818456 MAC configuration during Reject Ericsson discussion Rel-15 NR_newRAT-Core
- Intel explain that the release of default config was not mentioned for resume as it was not included for reject. But if we need to do it then we should do it for reject and release.
- Qualcomm think there is no confusion for release as the UE is going to idle but for reject it is useful. Intel think for release to inactive the MAC is not released.
- Huawei think releasing the default config doesn't do anything. Qualcomm think the key thing is that the UE must not release the stored configuration, only the default one.

=> To be concluded offline and captured in update of agreed in principle CR
=> Agreed in principle CR in R2-1816735 is revised in R2-1818972 (Offline discussion 82, Intel)

R2-1818457 CR for MAC configuration during Reject – Alt1 Ericsson CR Rel-15 38.331 15.3.0 0775 - F NR_newRAT-Core

R2-1818458 CR for MAC configuration during Reject – Alt2 Ericsson CR Rel-15 38.331 15.3.0 0776 - F NR_newRAT-Core

Corrections

R2-1816329 Clarifications on receiving RRCReject without wait timer vivo CR Rel-15 38.331 15.3.0 0520 - F NR_newRAT-Core
=> To be revised to clarify that the wait timer is always provided in RRCReject
=> 2nd and 3rd changes are kept.
=> Revised in R2-1818974 (Offline discussion 83)

R2-1818974 Clarifications on receiving RRCReject without wait timer vivo CR Rel-15 38.331 15.3.0 0520 1 F NR_newRAT-Core
=> Agreed

R2-1816554 Clarification on RRCResumeRequest1 Google Inc. CR Rel-15 38.331 15.3.0 0546 - F NR_newRAT-Core
=> Editorial corrections to be added to the rapporteur CR

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=> CR is not agreed

R2-1816673 Correction on shortMAC-I description in 38.331 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0562 - F NR_newRAT-Core
=> Agreed

R2-1817844 Correction to the description of ShortMAC-I Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0706 - F NR_newRAT-Core

R2-1817988 CR on handling of timer T380 ITRI CR Rel-15 38.331 15.3.0 0721 - F NR_newRAT-Core
=> Deletion of t380 in 5.3.8.3 is removed
=> Improve the impact analysis and Consequences if not approved
=> Agreed in R2-1818975

R2-1817323 Corrections on T380 considering optionality of t380 Spreadtrum Communications CR Rel-15 38.331 15.3.0 0635 - F NR_newRAT-Core

R2-1816911 SRB1 re-establishment in RRC suspend/resume MediaTek Inc. CR Rel-15 38.331 15.3.0 0583 - F NR_newRAT-Core
- MediaTek explain that this is only a modelling issue but has no functional impact
=> Not agreed

R2-1816962 Correction for the Start Condition on T319 (S025) Samsung CR Rel-15 38.331 15.3.0 0304 1 F NR_newRAT-Core R2-1814297
=> Not agreed

R2-1817089 SCG and resume Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0597 - F NR_newRAT-Core
=> Changes to be included in the rapporteur CR
=> CR is not agreed

R2-1817860 CR on 38.331 for RRCResumeRequest and RRCResumeRequest1 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0272 1 F NR_newRAT-Core R2-1814153
=> To be merged into R2-1818977

R2-1818463 CR to 38.331 on missing ResumeRequest1 message Ericsson CR Rel-15 38.331 15.3.0 0401 1 F NR_newRAT-Core R2-1814921

R2-1818389 Clarification for the UE AS context handling upon resuming the connection Samsung CR Rel-15 38.331 15.3.0 0769 - F NR_newRAT-Core
=> To be considered as part of the offline discussion on AS context

R2-1817218 Correction to RNA update procedure Ericsson CR Rel-15 38.331 15.3.0 0614 - F NR_newRAT-Core
=> Not agreed

R2-1817222 Clarification of cell reselection during resume procedure Ericsson CR Rel-15 38.331 15.3.0 0616 - F NR_newRAT-Core
=> Remove the last sentence from the section
=> Update the coversheet to reflect the change
=> Agreed in R2-1818978

Security algorithm change

R2-1817880 Discussion on security algorithm negotiation issue for Resume, RNAU and Reestablishment Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1814135

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R2-1817881 Introduction of algorithm in RRCRelease Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0380 1 F NR_newRAT-Core R2-1814824

R2-1817882 Introduction of algorithm in RRCReestablishment Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0381 1 F NR_newRAT-Core R2-1814825

R2-1817883 CR on security negotiation for resume procedure (fallback) Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0495 1 F NR_newRAT-Core R2-1815528

R2-1817211 On algorithm change in resume, re-establishment and release Ericsson discussion Rel-15 NR_newRAT-Core

Distinguishing Resume failue from Resume Reject (pending response from CT1 to R2-1816031)

R2-1817286 AS-NAS interaction of RRC RejectEricsson discussion Rel-15 NR_newRAT-Core

R2-1817287 CR to38.331 on AS-NAS interaction of RRC Reject Ericsson CR Rel-15 38.331 15.3.0 0625 - F NR_newRAT-Core

R2-1817289 Draft LS updates on resume failure in RRC_INACTIVE Ericsson LS out Rel-15 NR_newRAT-Core To:CT1

Release with redirect

R2-1817207 NAS indication in Release-with-Redirect in 2-step resume procedure scenario triggered by NAS Ericsson discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1817208 Draft LS to CT1 on NAS indications in Release with Re-direct in resume scenarios triggered by NAS Ericsson LS out Rel-15 NR_newRAT-Core To:CT1
=> Revised in R2-1818570

R2-1818570 Draft LS to CT1 on NAS indications in Release with Re-direct in resume scenarios triggered by NAS Ericsson LS out Rel-15 NR_newRAT-Core To:CT1

R2-1817209 Inter-RAT Release and Redirect in 2-step procedure Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817205 Release and Redirect in 2-steps without context relocation Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817206 Draft LS to RAN3 on on Release and Redirect without context relocation Ericsson LS out Rel-15 NR_newRAT-Core To:RAN3

Other

R2-1816280 RRC resume for signalling only connectionCATT CR Rel-15 38.331 15.3.0 0508 - F NR_newRAT-Core

R2-1818454 Timer for RRC Resume Request (T319) Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817213 Security aspects of RNAU without context relocation Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817221 Further aspects of PLMN information in 2-step resume procedure Ericsson discussion Rel-15 NR_newRAT-Core R2-1815575

Late

R2-1816289 On selecting a new equivalent PLMN in RRC_INACTIVE Samsung discussion Rel-15 NR_newRAT-Core R2-1813625 Late

R2-1818574 PLMN selection at the time of resume ZTE Corporation, Sanechips discussion Rel-15

R2-1818575 CR 38.331 on reporting selected PLMN in resumeComplete ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0785 F NR_newRAT-Core

10.4.1.3.7 Connection release procedure

Including release from connected to inactive and connected to inactive.

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Wait timer in release

R2-1817544 Wait timer in RRC Release Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

Agreements
1: The wait timer same as T302 is introduced in RRC Release message
2: Extended wait timer values are not supported in REL-15

R2-1817545 Introduction of wait time in RRC Release message Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0667 - F NR_newRAT-Core

R2-1817518 CR on wait timer in RRC release Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0660 - F NR_newRAT-Core
=> Revised to capture the agreements above
=> Revised in R2-1818979 (Offline discussion 84)

R2-1818979 CR on wait timer in RRC release Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0660 1 F NR_newRAT-Core
=> Agreed

R2-1817220 Slice-based wait timer in RRC connection release Ericsson discussion Rel-15 NR_newRAT-Core R2-1815570

R2-1817517 Wait timer in RRC release Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

Other

R2-1816912 Correction on UE security context Google Inc. CR Rel-15 38.331 15.3.0 0312 1 F NR_newRAT-Core R2-1814377
=> Not agreed

R2-1816964 CR on Aligning the Text Procedure for the Suspend RBs in NR Samsung Electronics CR Rel-15 38.331 15.3.0 0305 1 F NR_newRAT-Core R2-1814299
=> Not agreed

R2-1816965 CR on Aligning the Text Procedure for the Suspend RBs in LTE Samsung Electronics CR Rel-15 36.331 15.3.0 3606 1 F NR_newRAT-Core R2-1814352
=> Not agreed

R2-1816963 Aligning the Text Procedure for the Suspend RBs Samsung Electronics discussion Rel-15 NR_newRAT-Core R2-1814298

R2-1817219 Measurement configuration during inactive state Ericsson CR Rel-15 38.331 15.3.0 0615 - F NR_newRAT-Core
=> Not agreed

R2-1817870 Corrections on handling of suspendConfig Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0713 - F NR_newRAT-Core
=> Not agreed (to be covered by discussion of UE context)

R2-1817869 Corrections on the stop condition of T380 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0712 - F NR_newRAT-Core
=> Not agreed

Withdrawn

R2-1817316 Slicing based wait timer Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

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10.4.1.3.8 Security procedures

Including initial security activation and counter check procedure.

Corrections

R2-1816497 Corrections on Counter check procedure OPPO CR Rel-15 38.331 15.3.0 0532 - F NR_newRAT-Core
- ZTE wonder if the SA3 requirement is that the network must not invoke the procedure or the UE is not allowed to respond to the procedure.
- Samsung think today the UE responds for all DRBs so it would be a change for the UE to respond selectively.

=> Not agreed

R2-1818483 Mandating same security algorithm for ciphering and integrity protection Qualcomm CDMA Technologies CR Rel-15 38.331 15.3.0 0779 - F NR_newRAT-Core
- Ericsson think that SA3 spec has independent lists of algorithms. As in LTE we need to allow a IP algorithm and the null ciphering algorithm.
- Qualcomm explain this is for DRBs and SRBs. Samsung think for EN-DC this would only be for SRBs.
- Intel think this a requirement should come from SA3
- OPPO think network should not be forced to configure the same algorithm
- MediaTek agree with the concern about testing complexity. Ericsson think there is no restriction in LTE.
- Qualcomm think if we don't do this then then IOT opportunities must be provided by n/w vendors

=> Not agreed

Other

R2-1817210 Handling of DRB integrity verification failure Ericsson discussion Rel-15 NR_newRAT-Core

10.4.1.3.9 Inactive

Including aspects of inactive not addressed by the AI 10.4.1.3.6 on the resume procedure
UE in Inactive going out of service

R2-1816291 Specification impact analysis for UE behaviour upon camping in the acceptable cell Samsung, Qualcomm Incorporated, Intel Corporation discussion Rel-15 NR_newRAT-Core
- LG understand the CT1 LS requires the UE to go to idle when it is in the any cell selection state which is not consistent with this agreement.
- Samsung think the NAS will go to idle when the AS informs the AS layer to do so.
- Nokia don't think the CT1 spec should require when the UE is in any cell selection as the NAS layer should not really see this state. Qualcomm agree the any cell selection state should be transparent to NAS

Agreement
1 UE goes to RRC_IDLE after camping on the acceptable cell (change to previous agreements)

R2-1816293 Clarification for the UE behaviour in camped normally and camped on any cell states Qualcomm Incorporated (Rapporteur), Samsung, Intel Corporation CR Rel-15 38.304 15.1.0 0076 - F NR_newRAT-Core

=> Agreed (can be checked further as part of offline discussion 85)

=> Revision requested after offline checking

R2-1819037 Clarification for the UE behaviour in camped normally and camped on any cell states Qualcomm Incorporated (Rapporteur), Samsung, Intel Corporation CR Rel-15 38.304 15.1.0 0076 1 F NR_newRAT-Core

=> Agreed

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R2-1816294 Clarification for the UE behaviour in camped normally and camped on any cell states
Samsung, Intel Corporation, Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0510 - F NR_newRAT-Core
=> Simplify the requires to avoid duplication of requirements in 38.304.
=> Revised in R2-1818988 (Offline discussion 85)

R2-1818988 Clarification for the UE behaviour in camped normally and camped on any cell states
Samsung, Intel Corporation, Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0510 1 F NR_newRAT-Core
=> Agreed

R2-1817215 Pending RNAU in any cell selection state Ericsson CR Rel-15 38.331 15.3.0 0612 - F NR_newRAT-Core

R2-1817214 Pending RNAU in any cell selection state Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818230 Consideration on Response LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service LG Electronics France discussion Rel-15 NR_newRAT-Core

I-RNTI

R2-1817279 CR to 38.300 on I-RNTI-types Ericsson CR Rel-15 38.300 15.3.1 0123 - F NR_newRAT-Core
=> Not agreed

R2-1817280 CR to 36.331 on alignment of use of fullI-RNTI and i-RNTI in paging and InactiveConfig(alt 1)
Ericsson CR Rel-15 38.331 15.3.0 0621 - F NR_newRAT-Core

R2-1817281 CR to 36.331 on alignment of use of fullI-RNTI and i-RNTI in paging and InactiveConfig(alt 2)
Ericsson CR Rel-15 38.331 15.3.0 0622 - F NR_newRAT-Core
=> Cover sheet to be corrected
=> Impact analysis to be improved
=> Agreed in R2-1818984

R2-1817282 CR to 38.331 on aligning i-RNTI terminology in paging and SuspendConfig (Alt 1) Ericsson CR Rel-15 38.331 15.3.0 0623 - F NR_newRAT-Core

R2-1817283 CR to 38.331 on aligning i-RNTI terminology in paging and SuspendConfig (Alt 2) Ericsson CR Rel-15 38.331 15.3.0 0624 - F NR_newRAT-Core
=> Cover sheet to be corrected
=> Impact analysis to be improved
=> Agreed in R2-1818985

Corrections

R2-1816732 RIL I118 on release case to upper layers for CN paging for a UE in RRC_INACTIVE Intel Corporation CR Rel-15 38.331 15.3.0 0244 1 F NR_newRAT-Core R2-1814004
=> Agreed

R2-1817291 CR to 38.331 on clarification of IRAT Cell Selection in RRC_INACTIVE Ericsson CR Rel-15 38.331 15.3.0 0627 - F NR_newRAT-Core
=> To be checked offline whether this is already captured elsewhere in the spec (Offline discussion 87)
- Update from offline: This is not covered in the spec and a revision is needed

=> Revised in R2-1819062

R2-1819062 CR to 38.331 on clarification of IRAT Cell Selection in RRC_INACTIVE Ericsson CR Rel-15 38.331 15.3.0 0627 1 F NR_newRAT-Core
=> Revised in R2-1819095

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R2-1819095 CR to 38.331 on clarification of IRAT Cell Selection in RRC_INACTIVE Ericsson CR Rel-15 38.331 15.3.0 0627 1 F NR_newRAT-Core
=> Agreed

R2-1818222 CR on 38.304 for correction of PLMN selection in RRC_INACTIVE LG Electronics France CR Rel-15 38.304 15.1.0 0102 - F NR_newRAT-Core
=> Change sentence to "When upper layers selects a new PLMN UE transitions from RRC_INACTIVE to RRC_IDLE."
=> Check that there is a normative requirement for this capture in 38.331 or 38.304 (Offline discussion 86)
=> Revised in R2-1810926

R2-1819026 CR on 38.304 for correction of PLMN selection in RRC_INACTIVE LG Electronics France CR Rel-15 38.304 15.1.0 0102 1 F NR_newRAT-Core
=> Agreed

RNA config

R2-1817091 Unnecessary limitation in RAN area configuration Nokia, Nokia Shanghai Bell, Samsung discussion Rel-15 NR_newRAT-Core

R2-1817092 Unnecessary limitation in RAN area configuration Nokia, Nokia Shanghai Bell, Samsung CR Rel-15 38.331 15.3.0 0599 - F NR_newRAT-Core

Other optimisations

R2-1816482 Discussion on paging reception failure for RRC_INACTIVE state OPPO discussion Rel-15 NR_newRAT-Core R2-1813779

R2-1817284 Timer-based transition from Inactive to Idle Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817285 Timer-based transition from Connected to Inactive Ericsson discussion Rel-15 NR_newRAT-Core

Withdrawn

R2-1816330 Handling EPLMN selection in RRC_INACTIVE state for RNAU case vivo discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1817292 [e073] UE behavior in any cell selection state while in RRC Inactive Ericsson discussion Rel-15 NR_newRAT-Core Withdrawn

R2-1817293 [e073] CR to 38.331 on UE behavior in any cell selection state while in RRC Inactive Ericsson CR Rel-15 38.331 15.3.0 0628 - F NR_newRAT-Core Withdrawn

10.4.1.3.10 Access control

MPS/MCS (pending response from SA1)

R2-1817223 T302 override or not for MPS and MCS? Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817506 T302 timer exemption for MPS Vencore Labs, OEC CR Rel-15 38.331 15.3.0 0293 1 F NR_newRAT-Core R2-1814247
=> Revised in R2-1818518

R2-1818518 T302 timer exemption for MPS Vencore Labs, OEC, FirstNet CR Rel-15 38.331 15.3.0 0293 2 F NR_newRAT-Core

Access identity for AS triggered events

R2-1817224 Determination of Access Identities for AS-triggered Events Ericsson discussion Rel-15 NR_newRAT-Core
- Samsung think it should be up to UE implementation how the UE determines the Access Identity.

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=> Noted

R2-1817225 Determination of Access Identities for AS-triggered Events Ericsson CR Rel-15
38.331 15.3.0 0617 - F NR_newRAT-Core
=> In 5.3.14.5 also delete the "by upper layers"
=> Remove the editor's note
=> In the bullet above the note change the end of the sentence to " to be applied as specified in TS 24.501 [23]"
=> RAN box does not need to be ticked
=> Impact analysis to be updated
=> Agreed in R2-1819000

R2-1817226 Draft LS to CT1 on Determination of Access Identities for AS-triggered Events Ericsson
LS out Rel-15 NR_newRAT-Core To:CT1
=> Remove questions and ask CT1 to specify the Access Identities for AS triggered events in NAS specs
=> Revised in R2-1819001 (Offline discussion 90)

R2-1819001 Draft LS to CT1 on Determination of Access Identities for AS-triggered Events Ericsson
LS out Rel-15 NR_newRAT-Core To:CT1
=> Change action to " RAN2 kindly asks CT1 to also specify the access identities to be used for AS-triggered events in NAS specifications "
=> Change last paragraph to " Moreover, it is RAN2's understanding that there is no need specify exactly how and when access identities are obtained by AS, and hence this is left to UE implementation"
=> Approved in R2-1819070
=> Revised by MCC (Source "Ericsson" -> "RAN2") in R2-1819107
=> Approved

Update to agreed in principle CR

R2-1817229 CR to 38.331 on stopping T390 and UE related actions Ericsson CR Rel-15
38.331 15.3.0 0259 2 F NR_newRAT-Core R2-1815993
=> Offline discussion to resolve any remaining questions
=> Revised in R2-1819002 (Offline discussion 91)

R2-1819002 CR to 38.331 on stopping T390 and UE related actions Ericsson CR Rel-15
38.331 15.3.0 0259 3 F NR_newRAT-Core
=> Agreed

Barring alleviation

R2-1816745 Barring alleviation for emergency service Intel Corporation CR Rel-15 38.331
15.3.0 0572 - F NR_newRAT-Core
=> Change the line above to add "other than '2'"
=> Agreed in R2-1819003

R2-1816273 [C245] Corrrection on barring alleviation notification procedure CATT CR Rel-15
38.331 15.3.0 0217 1 F NR_newRAT-Core R2-1813821

R2-1818287 On stopping T302 and UE related actions Xiaomi Communications CR Rel-15 38.331
15.3.0 0746 - F NR_newRAT-Core
=> Revised in R2-1819004 (Offline discussion 92)

R2-1819004 On stopping T302 and UE related actions Xiaomi Communications CR Rel-15 38.331
15.3.0 0746 1 F NR_newRAT-Core

✉ **[104#07][NR] Stopping T302 and related actions (Xiaomi)**
To check CR in relation to NAS specification
Intended outcome: Agreed CR

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Deadline: Monday 2018-11-26

Stopping T302/T390 at RRCRelease

R2-1817231 Stopping T390 upon reception of RRC Release Ericsson CR Rel-15 38.331 15.3.0 0618 - F NR_newRAT-Core
=> RAN box should not be ticked
=> Impact analysis need to be updated
=> Needs to be based on 15.3.0
=> Agreed in R2-1819005

R2-1817217 Stopping T302 upon reception of RRC Release Ericsson CR Rel-15 38.331 15.3.0 0613 - F NR_newRAT-Core
=> Not agreed

R2-1817230 Stopping T390 upon reception of RRC Release Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817216 Stopping T302 upon reception of RRC Release Ericsson discussion Rel-15 NR_newRAT-Core

Other corrections

R2-1816274 Correction on the behaviors with cell reselection while T302 is running CATT CR Rel-15 38.331 15.3.0 0506 - F NR_newRAT-Core
=> Do not delete T302 in 5.3.13.6
=> Further details to be checked offline
=> Revised in R2-1819006 (Offline discussion 93)

R2-1819006 Correction on the behaviors with cell reselection while T302 is running CATT CR Rel-15 38.331 15.3.0 0506 1 F NR_newRAT-Core
=> Agreed

R2-1816530 Clarification to no barring configuration for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0541 - F NR_newRAT-Core
=> Agreed

R2-1816532 Correction to Access Category and barring config determination for Implicit UAC Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0542 - F NR_newRAT-Core
=> Agreed

R2-1817227 Access barring check after handover Ericsson CR Rel-15 38.331 15.3.0 0254 1 F NR_newRAT-Core R2-1814090
=> To be reworded as a normative requirement
=> Revised in R2-1919008 (Offline discussion 94)

R2-1819008 Access barring check after handover Ericsson CR Rel-15 38.331 15.3.0 0254 2 F NR_newRAT-Core
=> Agreed

R2-1817228 Access barring check after handover for eLTE Ericsson CR Rel-15 36.331 15.3.0 3593 1 F LTE_5GCN_connect-Core R2-1814091
=> To be reworded as a normative requirement
=> Revised in R2-1919009 (Offline discussion 94)

R2-1819009 Access barring check after handover for eLTE Ericsson CR Rel-15 36.331 15.3.0 3593 2 F LTE_5GCN_connect-Core
=> Agreed

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R2-1817755 Correction on RNAU access category Futurewei Technologies CR Rel-15 38.331 15.3.0 0698 - F NR_newRAT-Core
=> ACat 8 to be captured in R2-1819002
=> CR is not agreed

R2-1818290 CR to 38.331 on the handling of exceptional cases for UAC Xiaomi CommunicationsCR Rel-15 38.331 15.3.0 0747 - F NR_newRAT-Core
=> Not agreed

R2-1818280 The handling of exceptional cases for UAC Xiaomi Communicationsdiscussion
R2-1818299 CR to 38.331 on the handling of emergency call Xiaomi CommunicationsCR Rel-15 38.331 15.3.0 0748 - F NR_newRAT-Core
=> Not agreed

R2-1818224 UE operation upon RRC reject reception Apple CR Rel-15 38.331 15.3.0 0742 - F NR_newRAT-Core

10.4.1.3.11 Other

Including corrections related to RLM/RLF
Including overheating for NR standalone as requested by RAN in RP-182074.
Including RRC processing delay requirements
Including output of email discussion [103bis#16][NR] Overheating (Huawei)

RRC processing delay

R2-1817633 Discussion on processing Delay Requirements for RRC Procedures in NR Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core R2-1815829
- MediaTek think we need to discuss whether we want to include the BWP switch time in RAN2 RRC times or leave it to RAN4
- OPPO think that RAN4 are only considering the DCI BWP switch delay. We could send RAN4 an LS.
- Nokia think we need to know if we include BWP switching in the RRC delay. And understand that RAN4 are discussing RRC based switching time.
- Qualcomm assume similar to HO delay RAN2 would define the RRC procedure delay and RAN4 would add an extra BWP switching delay on top.

Agreements
1 RAN2 will only work on RRC processing part of the procedure delay and leave to RAN4 to define BWP switching part of the procedure delay.

=> Draft LS to RAN4 to inform them of our decision to be provided in R2-1818837 (Offline discussion 21, Nokia)

=> Offline discussion to establish a grouping of procedures that have same performance, and then to determine the actual performance numbers. The grouping of the procedures in R2-1817633 can be used as a starting point in the discussion. Finally to draft CR (MediaTek, Offline discussion 20)

R2-1819043 Discussion on RRC Processing Time MediaTek report

Agreements
1: Define 10 ms RRC processing delay for the following procedures: • RRC connection establishment (RRCSetup) • RRC connection Resume (RRCResume) without SCell addition/release and SCG establishment/modification/release • RRC connection Reconfiguration (RRCReconfiguration) without SCell addition/release and SCG establishment/modification/release FFS RRC connection re-establishment. (RRCReestablishment) (Reason for FFS is relate to separate discussion on the re-establishment procedure)

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2: RAN2 confirm that the overall delay for reconfiguration with sync procedure (handover delay) is the RRC processing delay defined in 38.331 (i.e. 10ms) plus the additional delay (e.g. cell search time and synchronization) defined in 38.133.

3: Optimization on using small processing delay for RRCResume procedure with simple (and typical) configuration could be discussed later based on contributions.

4: Define 16 ms RRC processing delay for the following procedures:
- RRC connection Reconfiguration (RRCReconfiguration) with SCell addition/release or SCG establishment/modification/release
- RRC connection Resume (RRCResume) with SCell addition/release or SCG establishment/modification/release (Note that whether SCG configuration will be included in RRCResume is still under discussion)

5: Define 5 ms RRC processing delay for the following procedures:
- Initial security activation (SecurityModeCommand)
- Counter Check (CounterCheck)

6: FFS: the value of RRC processing delay for UE capability transfer.

7: FFS: the RRC processing delay requirement when SecurityModeCommand and RRCReconfiguration are transmitted in the same TTI.

R2-1818837 [DRAFT] LS on RRC processing delay for BWP switching Nokia LS out Rel-15 NR_newRAT-Core To:RAN4
=> Add OPPO contact
=> Approved in R2-1818901

R2-1817636 CR on 38.331 to capture processing delay requirements Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0361 1 F NR_newRAT-Core R2-1814590

R2-1816857 Discussion on RRC UE processing time ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1816905 NR RRC Processing Time MediaTek Inc. discussion Rel-15 38.331 NR_newRAT-Core

R2-1816906 NR RRC Processing Time MediaTek Inc. CR Rel-15 38.331 15.3.0 0294 1 F NR_newRAT-Core R2-1814250
=> Revised in R2-1819044

R2-1819044 NR RRC Processing Time MediaTek Inc. CR Rel-15 38.331 15.3.0 0294 2 F NR_newRAT-Core
=> Change the RRC re-establishment to FFS
=> Agreed in R2-1819104

R2-1816259 RRC processing requirements considering BWP switch delay OPPO CR Rel-15 38.331 15.3.0 0505 - F NR_newRAT-Core

R2-1816762 RRC processing delay in NR Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1817326 Consideration on RRC processing latency Spreadtrum Communications discussion Rel-15

R2-1817382 UE RRC Processing Delays for EN-DC and SA Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1817522 RRC UE processing time for NR standalone Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817523 RRC UE processing time for NR standalone Ericsson CR Rel-15 38.331 15.3.0 0661 - F NR_newRAT-Core

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R2-1817524 RRC UE processing time for RRCResume Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817525 RRC UE processing time for RRCResume Ericsson CR Rel-15 38.331 15.3.0 0662 - F NR_newRAT-Core

R2-1817548 RRC processing delay for RRC Resume Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1817560 Introduction of processing delay requirements for RRC Resume procedure Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0668 - F NR_newRAT-Core

R2-1818235 Correction on RRC processing delay Intel Corporation CR Rel-15 38.331 15.3.0 0743 - F NR_newRAT-Core

R2-1818288 RRC processing delay requirement for NR Samsung Electronics GmbH discussion R2-1815320

R2-1818297 CR on RRC processing delay requirement Samsung Electronics GmbH CR Rel-15 38.331 15.3.0 0462 1 F NR_newRAT-Core R2-1815322

R2-1816594 RRC processing delay for BWP switching Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core R2-1813930

R2-1816595 Introduction of processing delay requirements for RCCReconfiguration with BWP switching Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0230 1 F NR_newRAT-Core R2-1813931

R2-1816596 Draft LS to RAN4 on RRC processing delay for BWP switching Nokia, Nokia Shanghai Bell LS out Rel-15 NR_newRAT-Core To:RAN4

Overheating (including email)

R2-1818031 Email discussion report on [103bis#16][NR] Overheating Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

- Ericsson think we should not add any other parameters in the overheating indication
- Huawei think as we don't have UE Cat in NR we need something that is similar to UE cat so MIMO and BW info is needed
- Nokia wonder how the MIMO rank will be signalled. Huawei think most companies think per carrier but would be ok with per UE.
- Intel think we need more parameters than just CC
- Nokia want to be sure that UEs will really use this signalling if we support it.
- Qualcomm think if we have too much complexity then the network will not implement but do think we need something similar to UE Cat in LTE
- Vivo think that BW and MIMO layer is very useful from UE point of view.

Agreements
1 Aggregated bandwidth across all carriers will be included in the overheating assistance information (FFS reported per UE, per FR, per DL/UL)

=> Offline discussion to try to conclude on inclusion of any MIMO related information, to conclude the FFS above and to conclude the signalling details (Offline discussion 95, Huawei)

Agreements
1 Support Aggregated bandwidth across all carriers per FR
2 Support MIMO indication per FR

✉ **[104#08][NR] Overheating (Huawei)**
Intended outcome: Agreed CRs to 38.331 and 38.306
Deadline: Monday 2018-11-26

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R2-1818032 CR on signalling introduction of UE overheating support in NR SA scenario Huawei, HiSilicon
CR Rel-15 38.331 15.3.0 0729 - F NR_newRAT-Core
=> Revised in R2-1819010 (Offline discussion 95, Huawei)

R2-1819010 CR on signalling introduction of UE overheating support in NR SA scenario Huawei, HiSilicon
CR Rel-15 38.331 15.3.0 0729 1 F NR_newRAT-Core

R2-1818033 CR on introduction of UE overheating support in NR SA scenario Huawei, HiSilicon CR
Rel-15 38.306 15.3.0 0068 - F NR_newRAT-Core
=> Revised in R2-1819011 (Offline discussion 95, Huawei)

R2-1819011 CR on introduction of UE overheating support in NR SA scenario Huawei, HiSilicon CR
Rel-15 38.306 15.3.0 0068 1 F NR_newRAT-Core

R2-1816537 Assistance information for NR overheating Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

R2-1816817 Parameters for overheating indication MediaTek Inc. discussion Rel-15 NR_newRAT-Core

R2-1817930 Extension of overheating indication parameters Ericsson discussion Rel-15 NR_newRAT-Core
=> Revised in R2-1818531

R2-1818531 Extension of overheating indication parameters Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817938 Introducing FR indication for overheating mitigation Samsung discussion NR_newRAT-Core

R2-1818034 LS on UE overheating assistance information in NR SA Huawei, HiSilicon LS out Rel-15 NR_newRAT-Core To:RAN4

Other

R2-1816660 Remaining issue on RB removal and addition NTT DOCOMO, INC. discussion Rel-15 NR_newRAT-Core
=> RAN2 confirm that the restriction as captured in the note in 36.331 on RB removal and addition with the same drb-identity in a RRC message is only applicable for the case where a single radioResourceConfigDedicated includes both of them in Rel-15.

R2-1816969 CR on the Clarification for the support of the delay budget report in NR Samsung Electronics
CR Rel-15 38.331 15.3.0 0307 1 F NR_newRAT-Core R2-1814302
=> Remove " for MCG "
=> Agreed in R2-1819013

R2-1816967 Clarification for the Support of Delay Budget Report in NR Samsung Electronics discussion
Rel-15 NR_newRAT-Core R2-1814301

R2-1817490 CR on DelayBudgetReport Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0658 - F NR_newRAT-Core
=> Changes to be added to the rapporteur CR)

R2-1817533 Clean up of SRB1 terminology Ericsson CR Rel-15 38.331 15.3.0 0665 - F NR_newRAT-Core
=> Update the coversheet for the consequences if not approved
=> Remove the addition of " and NGEN-DC "
=> Agreed in R2-1819019

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R2-1817600 RIL G301: SRB3 integrity protection failure handling Ericsson CR Rel-15 38.331 15.3.0 0429 1 F NR_newRAT-Core R2-1815063
=> Remove the changes to the section numbers
=> Agreed in R2-1919020

R2-1818490 Miscellaneous corrections on small mistakes Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0782 - F NR_newRAT-Core
=> Not agreed (covered in rapporteur CRs)

DRX cycle length

R2-1817155 DRX value range in Idle and Inactive mode in NR Ericsson discussion Rel-15 NR_newRAT-Core R2-1814525

R2-1817156 Correction to UE specific DRX cycle Ericsson CR Rel-15 38.300 15.3.0 0121 - F NR_newRAT-Core

R2-1817157 Correction to UE specific DRX cycle Ericsson CR Rel-15 38.304 15.1.0 0091 - F NR_newRAT-Core

R2-1817158 Extension of the defaultpagingCycle range Ericsson CR Rel-15 38.331 15.3.0 0346 1 F NR_newRAT-Core R2-1814526

Optimisation

R2-1817355 Discussion on support of mobility history information Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1814126

Late

R2-1817727 Simplified UE assistance information for NR overheating Samsung Telecommunications discussion Rel-15 NR_newRAT-Core Late

R2-1817727 Simplified UE assistance information for NR overheating Samsung Telecommunications discussion Rel-15 NR_newRAT-Core Late

R2-1818571 Further discussion for overheating mitigation in EN-DC Samsung discussion NR_newRAT-Core

Withdrawn

R2-1816971 CR on the Clarification for the support of the delay budget report in NR Samsung Electronics CR Rel-15 38.331 15.3.0 0307 2 F NR_newRAT-Core R2-1814302 Withdrawn

10.4.1.4 RRM measurements

No documents should be submitted to 10.4.1.4. Please submit to 10.4.1.4.x.

10.4.1.4.1 RRM

Including output of email discussion [103bis#17][NR] NR serving cell measurements (Huawei)

MO - SSB SCS based on RAN1 LS

R2-1816743 MO configuration with SSB SCS for a give SSB frequency Intel Corporation CR Rel-15 38.331 15.3.0 0571 - F NR_newRAT-Core
- Intel think in NR we can have more than one MO with the same SSB, one for measurements and others for timing references.
- Huawei wonder what was the original intention. ZTE understand that the intention is to cover both SSB and CSI-RS based measurements. Qualcomm have same understanding as ZTE and both for SSB measurements and timing reference for SSB there would be only one MO.
- Intel think this should be extended across LTE and NR. Vivo agree this is needed

=> Remove the " and ssbSubcarrierSpacing " from the line above the added line.
=> Reword the added sentence to avoid the impression that MO without SCS is possible
=> Discuss offline how to modify the text to also cover the EN-DC case

=> Revised in R2-1818858 (Offline discussion 30)

R2-1818858 MO configuration with SSB SCS for a give SSB frequency Intel Corporation CR Rel-15 38.331 15.3.0 0571 1 F NR_newRAT-Core
=> Agreed

R2-1816746 MO configuration with SSB SCS for a give SSB frequency Intel Corporation CR Rel-15 36.331 15.3.0 3714 - F NR_newRAT-Core
=> Agreed

R2-1817855 CR to 38.331 on single SCS for a given SSB frequency Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0710 - F NR_newRAT-Core

R2-1816428 CR on SSB SCS in MO configuration vivo CR Rel-15 38.331 15.3.0 0521 - F NR_newRAT-Core

MO - SMTC configuration (related to agreed in principle CR in R2-1815943)

R2-1816675 Further discussion on SMTC configuration in MeasObjectNR ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

- Huawei an agree the principle of the proposal but we need to be careful how this is worded, as this proposed text suggests there must be one.
- Intel is ok to try to reword the text in the CR so it doesn't contradict the RAN1/4 intention, but don't agree with proposal 2 and think the restriction should apply across LTE and NR.
- Ericsson think P2 is ok. Nokia also think that P2 is ok and think RAN4 have considered and allowed this case and the consequence is that it consumes an MO, otherwise there is heavy coordination between MN and SN.
- Samsung wonder if P2 can be supported with current INMs. Intel think it is possible to coordinate and that RAN1 decision is that there can only be 2 per frequency so coordination is needed

=> Offline discussion to conclude whether the restriction across LTE and NR nodes is needed
=> AIP CR in R2-815943 is revised to R2-1818859 (Offline discussion 31)

R2-1818859 Correction to configuration of measurement object Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0384 3 F NR_newRAT-Core
=> Agreed

R2-1816676 CR for SMTC configuration in MeasObjectNR ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0564 - F NR_newRAT-Core

R2-1817678 On the smtc restrictions in NR measurement objects Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

MO - other

R2-1817705 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 38.331 15.3.0 0688 - F NR_newRAT-Core

- Nokia wonder if these details are needed in the field description or they can be kept in RAN1/4
- Intel think it wasn't clear from the RAN1/4 specs and in some cases we do have this information.
- ZTE think we use 2 different texts to describe centre frequency of SSB.

=> Modify the CR so the interpretation of the ssb frequency is stated in one place and all occurrence of SSB frequency refer to the same definition
=> Revised in R2-1818860 (Offline discussion 32)

R2-1818860 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 38.331 15.3.0 0688 1 F NR_newRAT-Core
=> Agreed, but then revised into R2-1819071

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R2-1819071 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 38.331 15.3.0 0688 2 F NR_newRAT-Core
=> Revised to R2-1819092

R2-1819092 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 38.331 15.3.0 0688 2 F NR_newRAT-Core
=> Agreed

R2-1817834 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 36.331 15.3.0 3778 - F NR_newRAT-Core
=> Revised in R2-1818861 (Offline discussion 32)

R2-1818861 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 36.331 15.3.0 3778 1 F NR_newRAT-Core
=> Agreed, but then revised into R2-1819072

R2-1819072 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 36.331 15.3.0 3778 2 F NR_newRAT-Core
=> Revised to R2-1819093

R2-1819093 CRs on clarification of field descriptions for NR frequencies Intel Corporation CR Rel-15 36.331 15.3.0 3778 2 F NR_newRAT-Core
=> Agreed

R2-1817743 Missing need code for refFreqCSI-RS Ericsson CR Rel-15 38.331 15.3.0 0696 - F NR_newRAT-Core
=> Cover sheet needs to be revised
=> Offline discussion to discuss whether to specify this as a condition
=> Revised in R2-1818863 (Offline discussion 34)

R2-1818863 Missing need code for refFreqCSI-RS Ericsson CR Rel-15 38.331 15.3.0 0696 1 F NR_newRAT-Core
=> Agreed

R2-1817856 CR to 38.331 on associatedSSB Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0711 - F NR_newRAT-Core
=> Change PCell to SpCell in refServCellIndex
=> Remove " otherwise of the PCell "
=> Update the coversheet to describe the PCell to SpCell change as well.
=> Revised in R2-1818864 (Offline discussion 35)

R2-1818864 CR to 38.331 on associatedSSB Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0711 1 F NR_newRAT-Core
=> Agreed

R2-1818352 CR to 38.331 on CSI-RS-ResourceConfigMobility field description clarification Ericsson CR Rel-15 38.331 15.3.0 0761 - F NR_newRAT-Core

R2-1818363 On measObject update related UE actions Ericsson discussion Rel-15 NR_newRAT-Core
- Ericsson explain the intent is to avoid discarding of measurements in the UE when measurement are reconfigured
- Huawei think this was discussed before and would prefer to avoid any change
- Qualcomm think this is an optimisation and we should avoid new UE requirements at this stage. Intel share the same view.

=> Noted

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Serving cell reporting (including email discussion)

R2-1817872 [103bis#17][NR] NR serving cell measurements Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1817873 CR to 38.331 on NR serving cell measurements Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0715 - F NR_newRAT-Core
=> Impact analysis to be updated
=> Agreed in R2-1818866

R2-1817854 CR to 38.331 on including serving cell measurements Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0709 - F NR_newRAT-Core
=> Further checking need to determine whether this is the correct approach to addressing the problem. Revision can be requested if needed (Offline discussion 36)
=> Revised in R2-1819058

R2-1819058 CR to 38.331 on including serving cell measurements Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0709 - F NR_newRAT-Core
=> Agreed

Reporting

R2-1817859 Correction on cell sorting for periodical measurement reporting Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0275 1 F NR_newRAT-Core R2-1814156
=> Agreed

R2-1818443 Clarification of measurement object for beam reporting of NR cells Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0772 - F NR_newRAT-Core
=> Change " are reported " to " are to be reported"
=> Agreed in R2-1818868

R2-1817877 Clarification on reportQuantityRsIndexes and reportQuantityCell configuration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0717 - F NR_newRAT-Core
=> Not agreed
=> RAN2 understand that according to the current spec if all the quantities are false the RSRQ will be used for the sorting of cells, and as a consequence the network will have to have configured RSSI measurements.

R2-1817876 Discussion on MeasReportQuantity configuration for beam and cell sorting Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818353 CR to 38.331 on ReportConfigNR field description corrections Ericsson CR Rel-15 38.331 15.3.0 0762 - F NR_newRAT-Core
=> Some offline discussion to conclude the wording
=> Changes are editorial an can be included in the rapporteur CR

R2-1818351 CR to 38.331 on field description corrections for measResults Ericsson CR Rel-15 38.331 15.3.0 0760 - F NR_newRAT-Core
=> Note if not required
=> Remaining changes are pure editorial an can be included in the rapporteur CR

R2-1817879 Correction on measurement reporting after SCG failure happened Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0718 - F NR_newRAT-Core
- Qualcomm think this CR leads the UE to autonomously re-route the measurements to MN after CSCG failure. SO it is optimisation
- Samsung have the same view as Qualcomm
- Huawei think the procedures require something to be sent but actually they cannot be sent after SCG failure.

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- Ericsson think the requirement is to submit to lower layers but in this case it can't be sent as the SRB3 is suspended.

=> Not agreed.

SMTC in HO/redirection

R2-1816325 CR on missing SMTC for HO and intra-NR redirection vivo CR Rel-15 38.331 15.3.0 0289 3 F NR_newRAT-Core R2-1816044

- Qualcomm think that RAN4 have made agreements that the UE can assume the timing of the source cell and hence nothing needs to be captured in this CR.
- Huawei think if changes are needed it should be in the procedure section.
- LG agree with the intention from Vivo.
- Huawei think when we discussed last time then the SMTC information is always provided for HO and SCell addition. Not sure about redirection.
- Ericsson think that if the information is not provided then the UE behaviour can be left to implementation. ZTE agree with Ericsson. Qualcomm also agree with this.

=> Not agreed

Actions at re-establishment/handover

R2-1817858 CR on measurement related actions upon handover and re-establishment Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0277 1 F NR_newRAT-Core R2-1814158

- Nokia think we discussed previously not to have this kind of section for NR. MediaTek think we agreed for HO but not for re-establishment.
- Huawei think we agreed to release gaps at re-establishment and that needs to be captured

=> Revised in R2-1818869 to only implement the agreement from last meeting to release the measurement gap config at re-establishment (Offline discussion 38)

R2-1818869 CR on measurement related actions upon handover and re-establishment Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0277 2 F NR_newRAT-Core

=> Agreed

R2-1816925 Measurement related actions upon re-establishment MediaTek Inc. CR Rel-15 38.331 15.3.0 0585 - F NR_newRAT-Core

R2-1817857 Discussion on measurement related actions upon handover and re-establishment Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

Other

R2-1817853 CR to 38.331 on trigger quantities Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0708 - F NR_newRAT-Core

R2-1818346 CR to 38.331 on overriding cell quality derivation parameters upon state transition Ericsson CR Rel-15 38.331 15.3.0 0756 - F NR_newRAT-Core

R2-1818366 On overriding cell quality derivation parameters upon state transition Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818349 CR to 38.331 on detected cells terminology usage for CSI-RSs Ericsson CR Rel-15 38.331 15.3.0 0758 - F NR_newRAT-Core

R2-1818350 CR to 38.331 on rs-Type related clarifications Ericsson CR Rel-15 38.331 15.3.0 0759 - F NR_newRAT-Core

Optimisations

R2-1817628 s-Measure configuration and UE behaviour Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817639 CR on s-Measure Ericsson CR Rel-15 38.331 15.3.0 0357 1 F NR_newRAT-Core R2-1814546

R2-1817641 CR on s-measure to 38.306 Ericsson CR Rel-15 38.306 15.3.0 0061 - F NR_newRAT-Core

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R2-1817645 CR on s-Measure Ericsson CR Rel-15 36.331 15.3.0 3773 - F NR_newRAT-Core R2-1812256

R2-1817647 CR on s-measure to 36.306 Ericsson CR Rel-15 36.306 15.2.0 1668 - F NR_newRAT-Core

R2-1817889 Applicability of s-measure in NR Huawei, HiSilicon discussion R2-1815352

R2-1817890 CR to 38.331 for applicability of s-Measure in NR Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0466 1 F NR_newRAT-Core R2-1815353

R2-1817631 On MeasSubframePatternNeigh in measObjectEUTRA in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817625 Triggering conditions for A1-A6 events in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817627 Triggering of L3 filtered beam measurements Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818342 CR to 38.331 on Triggering condition for A1-A6 events in NR Ericsson CR Rel-15 38.331 15.3.0 0754 - F NR_newRAT-Core

R2-1818343 CR to 38.306 on Triggering condition for A1-A6 events in NR Ericsson CR Rel-15 38.306 15.3.0 0069 - F NR_newRAT-Core

R2-1817885 Ensuring that all candidate cells for handovers are reported Huawei, HiSilicon discussion R2-1814140

R2-1817886 CR on reporting measurement results of cells within x dB of best triggered cell Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0265 1 F NR_newRAT-Core R2-1814141

R2-1817887 Removal of measurement reporting entries upon modification of measurement object or report configuration Huawei, HiSilicon discussion R2-1814142

R2-1817888 CR on unnecessary removing measurement reporting entry Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0266 1 F NR_newRAT-Core R2-1814143

R2-1818364 On the inclusion of candidate cells in the measurement report Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818365 On measurement report size reduction Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817884 Discussion on measObject swapping upon handover Huawei, HiSilicon discussion R2-1814139

R2-1818362 On measObject swapping upon handover Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817626 Measurement priority handling in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817630 Measurement related actions upon handover and re-establishment Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818344 CR to 38.331 on measurement priority handling in NR Ericsson CR Rel-15 38.331 15.3.0 0755 - F NR_newRAT-Core

R2-1818345 CR to 38.306 on measurement priority handling in NR Ericsson CR Rel-15 38.306 15.3.0 0070 - F NR_newRAT-Core

R2-1818471 NCSG Support in NR Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1814136

10.4.1.4.2 Measurement gaps

Including output of email discussion [103bis#18][NR] Measurement gaps (Intel)

Email discussion

R2-1817703 Stage 2 CR on Measurement gap configuration scenarios Intel Corporation CR Rel-15 38.300 15.3.1 0133 - F NR_newRAT-Core

=> Change " measurement gap is needed in the following cases " to "a measurement gap configuration is always provided"

=> Move the changes to be before the final paragraph

=> Agreed in R2-1818870

R2-1817704 Stage 2 CR on Measurement gap configuration scenarios Intel Corporation CR Rel-15 37.340 15.3.0 0086 - F NR_newRAT-Core
=> Align the wording to the 38.300 CR (i.e. to say "a measurement gap configuration is always provided"
=> Agreed in R2-1818871

R2-1817708 Stage 2 CR on Measurement gap configuration scenarios Intel Corporation CR Rel-15 36.300 15.3.0 1206 - F NR_newRAT-Core
=> Add a reference for FR1
=> Agreed in R2-1818872

Optimisations

R2-1816572 Discussion on measurement gap related actions upon HO Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1817893 Measurement Gap Capability Feedback Huawei, HiSilicon discussion R2-1814137

10.4.1.4.3 Inter-RAT measurements

Inter-RAT E-UTRA measurements for the purpose of inter-RAT handover from NR to E-UTRA

R2-1817742 Correction of MeasResultEUTRA Ericsson CR Rel-15 38.331 15.3.0 0695 - F NR_newRAT-Core
=> Do not introduce the new type EUTRA-PhysCellId2 (but keep the change of the field name)
=> Revised in R2-1818873 (Offline discussion 39)

R2-1818873 Correction of MeasResultEUTRA Ericsson CR Rel-15 38.331 15.3.0 0695 1 F NR_newRAT-Core
=> Agreed

10.4.1.4.4 ANR

All cases of ANR (i.e. inter-RAT ANR from E-UTRA, inter-RAT ANR from NR, and intra-RAT ANR within NR) and hence both 36.331 and 38.331 impacts should be discussed in this agenda item.

MN/SN coordination

R2-1817263 CR on MN/SN coordination for report CGI procedure Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSillicon CR Rel-15 38.331 15.3.0 0620 - F NR_newRAT-Core
=> Revised in R2-1819059

R2-1819059 CR on MN/SN coordination for report CGI procedure Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSillicon CR Rel-15 38.331 15.3.0 0620 1 F NR_newRAT-Core
=> Remove the change from ReportConfigInterRAT
=> Agreed in R2-1819096

✉ **[104#09][NR] MN/SN coordination for report CGI (Nokia)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

R2-1817304 Inter-node coordination for ANR in EN-DC Ericsson discussion Rel-15 NR_newRAT-Core
- Intel still prefer a simpler solution but think SRB3 does not need to be used for ANR reporting. The MN cannot know when the procedure is used by SRB3. Ericsson think the MN doesn't need to know when the SN used SRB3.

=> Offline discussion to conclude (Offline discussion 40, Ericsson)
- Update from offline:

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R2-1816486 Discussion on ANR in MR-DC OPPO discussion Rel-15 NR_newRAT-Core R2-1813785
R2-1816502 ANR coordination between MN and SN vivo CR Rel-15 38.331 15.3.0 0537 - F NR_newRAT-Core
R2-1816503 ANR coordination between MN and SN vivo discussion Rel-15 NR_newRAT-Core
R2-1816748 [RIL: I873] draft CR for Inter-node coordination for ANR for EN-DC Intel Corporation CR Rel-15 38.331 15.3.0 0241 1 F NR_newRAT-Core R2-1813994
R2-1816767 ANR network coordination Intel Corporation discussion Rel-15 NR_newRAT-Core

Other

R2-1817845 CR on CGI reporting Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0283 1 F NR_newRAT-Core R2-1814165#
=> Improve the Consequences if not approved on the cover sheet
=> Agreed in R2-1818874

R2-1816501 Correction on choice of 16-bit TAC vivo CR Rel-15 38.331 15.3.0 0536 - F NR_newRAT-Core
=> Change can be included in the rapporteur CR

R2-1817308 CR to 38.331 on corrections related to CGI reporting Ericsson CR Rel-15 38.331 15.3.0 0633 - F NR_newRAT-Core
=> Not agreed

R2-1817309 CR to 36.331 on addition of CGI reporting timer T321 for NR Ericsson CR Rel-15 36.331 15.3.0 3764 - F NR_newRAT-Core
=> Remove "4> try to acquire MIB in the concerned cell;"
=> Update the impact analysis and the consequences if not approved
=> Agreed in R2-1818885

R2-1817305 Discussion on the issues related to variable gNB ID length in NR Ericsson discussion Rel-15 NR_newRAT-Core
- Intel think we should wait for RAN3 before doing this.
- Huawei agree with Intel and think the change is not needed.
- Qualcomm have the same view and think the discussion should be started in RAN3.
- Ericsson think he receiving node can't know how much of the cell id is the gNB length. This this has been discussed in RAN3 and that if it is not agreed then there are implication on the planning.
- ZTE think that RAN3 have concluded this will be resolved by OAM for R15

=> RAN2 will not take any action until RAN3 inform us that this is needed.

R2-1817306 CR to 38.331 on the inclusion of gNB ID length in SIB1 Ericsson CR Rel-15 38.331 15.3.0 0632 - F NR_newRAT-Core
R2-1817307 CR to 36.331 on the inclusion of gNB ID length in inter-RAT CGI reporting Ericsson CR Rel-15 36.331 15.3.0 3744 - F NR_newRAT-Core

Optimisation

R2-1817303 SSBs without SIB1 in CGI reporting Ericsson discussion Rel-15 NR_newRAT-Core

10.4.1.6 System information

No documents should be submitted to 10.4.1.6. Please submit to 10.4.1.6.x.

10.4.1.6.1 System information content/structure

Corrections to broadcast parameters required for idle mobility should be discussed in 10.4.5.x

SMTC configuration for cell search

R2-1817262 issue on SMTC configuration for cell search OPPO discussion Rel-15
- Huawei agree it is an issue to address and think reading SIB2 is out of the question and also including in SIB1 is not so nice as the UE needs to read SIB before starting making measurements. Prefer that RAN1 fix this.
- Ericsson think the UE should not need SMTC to make the measurements and think it is only an issue with initial cell selection. Not sure if any layer 1 spec change is needed as feel the RAN1 spec doesn't require SMTC info.
- Vivo think that for initial cell selection the UE doesn't need SMTC. So no change it needed
- Ericsson think the measurement quantity for cell selection is up to UE implementation.

=> Send LS to RAN1 to explain the issue and ask if this can be addressed within their specifications. Draft LS in R2-1818913 (Offline discussion 60)

R2-1818913 [DRAFT] LS on SMTC availability issue during cell search OPPO LS out Rel-15 NR_newRAT-Core To:RAN1
=> Approved

Other

R2-1816713 CR to the field descriptions of System Information ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0567 - F NR_newRAT-Core
=> Remove the field description for eCallOverIMS-Support (as covered by IPA CR)
=> Update the impact analysis
=> Some editorial to be fixed
=> Agreed in R2-1818914

R2-1816813 Handling of missing fields in SIB1 MediaTek Inc. CR Rel-15 38.331 15.3.0 0578 - F NR_newRAT-Core
=> Revised in R2-1818581

R2-1818581 Handling of missing fields in SIB1 MediaTek Inc. CR Rel-15 38.331 15.3.0 0578 1 F NR_newRAT-Core
=> Remove the changes related to " If the field is not present, the UE shall treat the cell as barred in accordance with TS 38.304 [20]."
=> Check to avoid clash with CRs in idle mode session
=> Other detail comments can be provided offline
=> Revised in R2-1818915 (Offline discussion 61)

R2-1818915 Handling of missing fields in SIB1 MediaTek Inc. CR Rel-15 38.331 15.3.0 0578 2 F NR_newRAT-Core
=> Agreed

R2-1816712 Introduction of speed state scale factors for intra-frequency cell reselection in SIB2 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0566 - F NR_newRAT-Core

R2-1818370 Correction on the conditional presence of CellSelectionInfo in SIB1 Samsung Electronics CR Rel-15 38.331 15.3.0 0764 - F NR_newRAT-Core

R2-1816812 Clarification of UE behaviour when frequencyBandList is absent in SIB4 MediaTek Inc. CR Rel-15 38.331 15.3.0 0577 - F NR_newRAT-Core
=> Above 3 paper to be handled in the idle mode session.

10.4.1.6.2 System information procedures

Corrections to SI procedures including stored SI, SI modification, SI scheduling, stored SI, etc but not including on demand SI.

Updates to agreed in principle CR 0436 (R2-1816302)

R2-1816324 Correction on PDCCH Monitoring Occasions in SI Window vivo CR Rel-15 38.331 15.3.0 0517 - F NR_newRAT-Core
=> Ensure that a good impact analysis is included in the revised CR

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=> Change to be merged into a revision of R2-1816302 in R2-1818916 (Offline discussion 62, Samsung)

R2-1818916 PDCCH Monitoring Occasions in SI Window Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0436 3 F NR_newRAT-Core
=> Agreed

R2-1817652 Correction for monitoring occasion in SI window Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0674 - F NR_newRAT-Core
=> To be worked offline whether the count should start from zero or one
=> Change is merged into the revision of R2-1816302

Other

R2-1816311 SCS for SI-Window determination Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0513 - F NR_newRAT-Core
- Vivo think this is clear in the current spec
- Huawei have a similar view and think there can be no other interpretation
=> Not agreed

R2-1816433 CR on short message vivo CR Rel-15 38.331 15.3.0 0523 - F NR_newRAT-Core
=> Square brackets to be removed in the rapporteur CR
=> CR is not agreed

R2-1817168 Minor corrections to SI acquisition Ericsson CR Rel-15 38.331 15.3.0 0610 - F NR_newRAT-Core
=> Changes to be included in the rapporteur CR

R2-1817164 SIB1 and other SIBs content in multi-beam operations Ericsson CR Rel-15 38.331 15.3.0 0607 - F NR_newRAT-Core
- Qualcomm suggest to add MIB as well
- Nokia think this was discussed at length and we only agreed to capture in the meeting minutes. Samsung also agree it doesn't need to be captured as it is obvious.
- Ericsson think if we do not capture it is not consistent with paging.
- Intel support to add the note.
=> Not agreed

R2-1817163 SI reading in multi-beam operations Ericsson discussion Rel-15 NR_newRAT-Core

PWS reception

R2-1816814 Clarification that PWS SIBs are always broadcast MediaTek Inc. CR Rel-15 38.331 15.3.0 0579 - F NR_newRAT-Core
=> RAN2 understand that PWS SIBs are always provided by broadcast (and cannot be provided on demand)
=> CR is not agreed

R2-1816454 Indication of stop receiving PWS CATT CR Rel-15 38.331 15.3.0 0527 - F NR_newRAT-Core

R2-1818411 Reception of PWS notification and repeated broadcast of a warning message LG Electronics Inc. discussion Rel-15 NR_newRAT-Core

R2-1818412 Reception of PWS notification and repeated broadcast of a warning message LG Electronics Inc. CR Rel-15 38.331 15.3.0 0771 - F NR_newRAT-Core

Late

R2-1816452 PDCCH Monitoring Occasions in SI Window_Updated Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0525 - F NR_newRAT-Core Late

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10.4.1.6.3 On demand system information

SI not received at end of modification period

R2-1816322 UE Behaviour after Failure SI Acquisition vivo, ZTE discussion Rel-15 NR_newRAT-Core

Proposal: Handling of SI message acquisition if the concerned SI message was not received in the current modification period is left to UE implementation.

R2-1817187 SI message reception in the next modification period ETRI discussion

Proposal 1: When UE fails to receive the SI message in the current modification period, the UE receives the concerned SI message at the next modification period without restarting on-demand SI procedure.
Proposal 2: The feature is limited to the UE which receives acknowledgement after the start of the last SI-window in the current modification period

R2-1817161 On demand SI Ericsson discussion Rel-15 NR_newRAT-Core
- Samsung support that it should be left to UE implementation and think there are means on the network to avoid problems of resource wastage.
- Huawei think a good UE will probably receive SIB1 again but better to lease to UE implementation . Qualcomm have the same. OPPO also have the same view.
- Sharp think the Ericsson proposal is the normal UE behaviour.
- LG think UE could continue to try to receive in the next modification period or it could re check SIB1.
- Panasonic support the Ericsson proposal and think the spec requires the UE to have a valid version of SIB1. But it can be left to UE whether to request again.
- MediaTek think the a UE that blindly receives in the next modification period would not harm the system so it can be left to the UE
- Ericsson think if the UE broadcasts something it wants to know that the UE is receiving it. Also disagree that it would be a bad implementation to request at the end of the modification period.
- IDC think it can be left to UE implementation and think a smart UE can avoid requesting at the end of the modification period.
- Vivo think the current spec already specifies that the UE needs to check SIB1 before re-requesting
- Samsung think if the UE is interested to still receive the SIB then it will recheck SIB1 but if not interested in the SIB anymore then it doesn't have to request SIB1 again.

Agreements
1 Handling of SI message acquisition if the concerned SI message was not received in the current modification period is left to UE implementation.

R2-1816323 CR on UE behaviour after SI acquisition failure vivo, ZTE CR Rel-15 38.331 15.3.0 0516 - F NR_newRAT-Core
=> Details of how to capture the above agreement in the spec to be discussed offline
=> Revised in R2-1818917 (Offline discussion 63)

R2-1818917 CR on UE behaviour after SI acquisition failure vivo, ZTE CR Rel-15 38.331 15.3.0 0516 1 F NR_newRAT-Core
=> Agreed

R2-1817196 CR on SI message reception in the next modification period ETRI CR Rel-15 38.331 15.3.0 0611 - F NR_newRAT-Core

R2-1817162 Correction to on demand SI acquisition Ericsson, Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0606 - F NR_newRAT-Core

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R2-1816455 UE action of failing to receive on-demand SI message CATT CR Rel-15 38.331 15.3.0 0528 - F NR_newRAT-Core

R2-1816458 CR on Handling of Unsuccessful On-Demand SI Message Acquisition OPPO CR Rel-15 38.331 15.3.0 0529 - F NR_newRAT-Core

R2-1817989 Discussion on UE behavior when failed of SI reception ITRI discussion Rel-15 NR_newRAT-Core

R2-1818311 Remaining issue on SI Message Acquisition Samsung R&D Institute India discussion

R2-1818316 CR on SI Message Acquisition remaining issue Samsung R&D Institute India CR Rel-15 38.331 15.3.0 0751 - F NR_newRAT-Core

Cell reselection during SI request

R2-1816304 Handling Cell Reselection during SI Request Samsung Electronics Co., Ltd, ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0202 1 F NR_newRAT-Core R2-1813699
=> Impact analysis needs to be updated
=> Double check whether the RLC entity should be released for re-established.
=> Remove the changes to the note
=> Revised in R2-1818918 (Offline discussion 64)

R2-1818918 Handling Cell Reselection during SI Request Samsung Electronics Co., Ltd, ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0202 2 F NR_newRAT-Core
=> Agreed

R2-1817165 Cell reselection during on-demand SI procedure Ericsson CR Rel-15 38.331 15.3.0 0608 - F NR_newRAT-Core

R2-1817656 Correction to cell reselection during SI request procedure Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0677 - F NR_newRAT-Core

Other

R2-1817658 Clarification on reacquistion of SIB1 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0679 - F NR_newRAT-Core
=> Not agreed

R2-1817659 Correction to SI message acquisition timing Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0680 - F NR_newRAT-Core
=> Offline discussion to conclude whether any change is needed and if so finalise the wording
=> Revised in R2-1818919 (Offline discussion 65)

R2-1818919 Correction to SI message acquisition timing Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0680 1 F NR_newRAT-Core
=> Agreed

R2-1817093 SIBs that trigger SI request procedure Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0600 - F NR_newRAT-Core
=> Remove the changes that add text like "that the UE requires to operate within the cell"
=> Revised in R2-1818920 (Offline discussion 66)

R2-1818920 SIBs that trigger SI request procedure Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0600 1 F NR_newRAT-Core
=> WI code and CR cat to be filled out
=> Agreed in R2-1819063

R2-1817655 Correction to on-demand resource update without notification Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0676 - F NR_newRAT-Core
=> Not agreed

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R2-1817654 Issue with on-demand resource update without notification Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817660 Correction to RRC state applicability for SI request Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0681 - F NR_newRAT-Core
=> Not agreed

Other

R2-1818153 Cases of Early Stop of RA procedure for SI Request Xiaomi Communications discussion Rel-15

R2-1818156 Stop of SI request procedure if no remaining SI-window Xiaomi Communications CR Rel-15 38.331 15.3.0 0736 - F NR_newRAT-Core

R2-1818163 Stop of SI request procedure upon acquiring updated SIB1 Xiaomi Communications CR Rel-15 38.331 15.3.0 0740 - F NR_newRAT-Core

R2-1816709 Earlier Termination of the On-Demand SI Request Procedure PANASONIC R&D Center Germany CR Rel-15 38.331 15.3.0 0311 1 F NR_newRAT-Core R2-1814374

R2-1817657 Clarification on termination of SI request procedure Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0678 - F NR_newRAT-Core

R2-1817653 Corrections on SI request random access failure case Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0675 - F NR_newRAT-Core

R2-1818167 Adjust SI request during SI request procedure Xiaomi Communications discussion Rel-15

R2-1818176 CR for Adjusting SI request during SI request procedure Xiaomi Communications CR Rel-15 38.331 15.3.0 0741 - F NR_newRAT-Core

R2-1818184 Clarification if updated SIB1 is acquired in the middle of SI-window Xiaomi Communications discussion Rel-15

R2-1818413 [L220] Concurrent triggers of SI request and RRC establishment or resume LG Electronics Inc. CR Rel-15 38.331 15.3.0 0483 1 F NR_newRAT-Core R2-1815435

R2-1818191 Connection procedure failure caused by On-demand SI procedure ASUSTeK discussion Rel-15 38.331 NR_newRAT-Core R2-1815231

Withdrawn

R2-1817455 Corrections on SI request failure case Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0648 - F NR_newRAT-Core

10.4.1.6.4 System information reception in connected mode

BWP switching during SI reception

R2-1816460 CR on BWP Switching during SI Update OPPO CR Rel-15 38.331 15.3.0 0530 - F NR_newRAT-Core
- Chair thinks nothing is needed as we already have an understanding that if network doesn't provide resources for SI reception then the UE can’t do anything and must just rely on the network to provide by dedicated signalling. This case is no different and if the UE is moved to a BWP that doesn’t provide the SI by broadcast then it must rely on the network.

=> Not agreed

R2-1817166 SI acquisition at BWP switching Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817167 SI acquisition at BWP switching Ericsson CR Rel-15 38.331 15.3.0 0609 - F NR_newRAT-Core

Optimisations

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R2-1816483 Discussion on SI change indication for RRC_CONNECTED UE OPPO discussion Rel-15 NR_newRAT-Core R2-1813780

R2-1816484 38.331CR on SI change indication for RRC_CONNECTED UE OPPO CR Rel-15 38.331 15.3.0 0212 1 F NR_newRAT-Core R2-1813781

R2-1816485 Draft LS on the SI change indication OPPO LS out Rel-15 NR_newRAT-Core R2-1813783 To:RAN1

Duplicate of agreed in principle 38.331 CR 0339?

R2-1816308 Correction to SIB1 reading upon handover Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0512 - F NR_newRAT-Core
=> Not agreed

Withdrawn

R2-1816461 CR on BWP Switching during SI Update OPPO CR Rel-15 38.331 15.3.0 0531 - F NR_newRAT-Core Withdrawn

10.4.1.9 Inter-Node RRC messages

No documents should be submitted to 10.4.1.9. Please submit to 10.4.1.9.x.

10.4.1.9.1 Inter-Node RRC messages for EN-DC

MeasurementTimingConfiguration - adding PCI (related to RAN3 LS, R2-1816227)

R2-1817050 Signalling of PCI for each SSB over Xn Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

- Ericsson would like to understand the use case. All SSBs of the cell should use the same PCI.
- Nokia think this is not the RAN1 understanding and they consider if it left to network implementation
- ZTE also understand that the PCIs can be different but also think not all SSBs need to be transferred between nodes such as some just used for triggering BWP change. These SSB do not belong to any cells.
- Huawei also think the PCIs can be different. Whether PCI is needed should be discussed in RAN3 so we should just add the information that was requested.
- Ericsson thinks that adding this will add additional problems as it allows more than one PCI to be used in SSBs of a cell.

=> Offline discussion to conclude (Offline discussion 67, ZTE)

- Update from offline discussion: The proposal now seems to be agreeable

R2-1817051 Addition of PCI in MeasTiming Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0594 - F NR_newRAT-Core
=> Revised in R2-1819060

R2-1819060 Addition of PCI in MeasTiming Nokia, Nokia Shanghai Bell CR Rel-15 38.331 15.3.0 0594 1 F NR_newRAT-Core
=> Agreed

R2-1817052 Reply LS on measurement of different SSBs with different PCIs within the same NCGI Nokia, Nokia Shanghai Bell LS out Rel-15 NR_newRAT-Core To:RAN3

R2-1817848 CR to 38.331 on adding PCI information in MeasurementTimingConfiguration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0707 - F NR_newRAT-Core

R2-1817847 Adding PCI information in MeasurementTimingConfiguration Huawei, HiSilicon discussion Rel-15

R2-1817849 Reply LS on measurement of different SSBs with different PCIs within the same NCGI Huawei, HiSilicon LS out Rel-15 To:RAN3

R2-1816663 Discussion on SSB and PCI ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

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MeasurementTimingConfiguration - other

R2-1817846 CR on MeasurementTimingConfiguration Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0492 2 F NR_newRAT-Core R2-1815940
=> Add additional reference to RAN3 spec
=> Remove impact analysis
=> Agreed in R2-1818921

R2-1816276 Correction on the direction of MeasurementTimingConfiguration CATT CR Rel-15 38.331 15.3.0 0226 1 F NR_newRAT-Core R2-1813831

PH configuration

R2-1817415 Discussion on power headroom configuration exchange Huawei, HiSilicon discussion NR_newRAT-Core
- Samsung wonder if this is essential for R15. Huawei think this needs to be know the configuration for the network to correctly interpret the power headroom.
- ZTE understand there is an issue and a similar issue was discussed for SUL case and it was decided to be left to n/w implementation.
- Ericsson have a similar understanding as Huawei.
- Samsung think the receiving node doesn't need to know if it was type 1 or type 3, Huawei think this might be true for scheduling but if the network want to derive the pathloss then the type is need

=> Offline discussion to conclude (Offline discussion 70)
- Update from offline discussion: Not yet agreed the details

R2-1817416 Corrections on power headroom configuration exchange Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0647 - F NR_newRAT-Core
=> Revised in R2-1819097

R2-1819097 Corrections on power headroom configuration exchange Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0647 - F NR_newRAT-Core

✉ **[104#10][NR] Power headroom configuration exchange (Huawei)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

HO with EN-DC

R2-1818313 EN-DC AS context related issue NTT DOCOMO INC. discussion Rel-15 NR_newRAT-Core
=> Offline discussion to conclude (Offline discussion 68)
- Update from offline discussion: CR update is provided in R2-1819030

R2-1818390 Addition of selected BC in AS-Context for EN-DC NTT DOCOMO INC., Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3805 - F NR_newRAT-Core
=> Revised in R2-1818545

R2-1818545 Addition of selected BC in AS-Context for EN-DC NTT DOCOMO INC., Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3805 1 F NR_newRAT-Core
=> Revised in R2-1819030

R2-1819030 Addition of selected BC in AS-Context for EN-DC NTT DOCOMO INC., Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3805 2 F NR_newRAT-Core
=> Agreed

Other

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R2-1816662 CR for maxMeasIdentitiesSCG-NR ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0559 - F NR_newRAT-Core
=> RAN2 understand the maxMeasIdentitiesSCG-NR between MN and SN is not used for EN-DC.

R2-1816661 Revisit the reporting criteria limitation for SN in (NG)EN-DC ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1818211 CR on adding SPCell information to CG-Config Samsung Electronics GmbH CR Rel-15 38.331 15.3.0 0744 - F NR_newRAT-Core
- ZTE think a CR was agreed last meeting that the freq if the PCell can be provided back to the MN as SCG addition.
=> Not agreed

R2-1818385 Correction on the terminology scg-ChangeFailure Samsung Electronics CR Rel-15 38.331 15.3.0 0767 - F NR_newRAT-Core
=> Change to UE to n/w RRC message needed as well
=> Revised in R2-1818923 (Offline discussion 69)
=> Corresponding CR to 36.331 (CR# 3807) in R2-1818924 (Offline discussion 69)

R2-1818923 Correction on the terminology scg-ChangeFailure Samsung Electronics CR Rel-15 38.331 15.3.0 0767 1 F NR_newRAT-Core
=> Agreed

R2-1818924 Correction on the terminology scg-ChangeFailure Samsung Electronics CR Rel-15 36.331 15.3.0 3807 - F NR_newRAT-Core
=> Agreed

Withdrawn

R2-1818318 CR for EN-DC AS context related issue NTT DOCOMO INC. draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core Withdrawn

R2-1818322 Addition of selected BC in AS-Context for EN-DC NTT DOCOMO INC. draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core Withdrawn

10.4.1.9.2 Inter-Node RRC messages for standalone operation

R2-1817055 Ambiguity on cell id in ReestabNCellInfo ZTE, Sanechips discussion NR_newRAT-Core
- LG prefer not to fix this issue as it also exists in LTE. ZTE understand this issue was added to LTE when we added the option of different cell ids per PLMN in R14.
- Samsung think the problem can be avoided by ordering the PLMNs . ZTE think this will not resolve the issued
=> Offline discussion to conclude (Offline discussion 71, ZTE)
- Update from offline discussion: No progress
=> Postponed

R2-1817056 CR to the ambiguity on CellIdentity in ReestabNCellInfo ZTE, Sanechips CR Rel-15 38.331 15.3.0 0595 - F NR_newRAT-Core

10.4.2 LTE changes related to NR

No documents should be submitted to 10.4.2. Please submit to 10.4.2.x.

10.4.2.0 In principle agreed CRs

In principle agreed CR to 36.331

R2-1816664 CR for security handling upon handover to eLTE in 36.331 ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3583 2 F NR_newRAT-Core R2-1815792

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R2-1816665 Clarification on measObjectNR of SFTD between PCell and PSCellZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3678 1 F NR_newRAT-Core R2-1815984

R2-1816886 RSRP result in SFTD measurement report MediaTek Inc. CR Rel-15 36.331 15.3.0 3602 2 F NR_newRAT-Core R2-1815852

R2-1817198 [E201] CR to 36.331 on handling of mapped GUMMEI/GUAMI at idle mode mobility between 5GS and EPS Ericsson CR Rel-15 36.331 15.3.0 3592 2 F NR_newRAT-Core, LTE_5GCN_connect-Core R2-1815859

R2-1817302 CR to 36.331 on addition of CGI reporting timer T321 for NR Ericsson CR Rel-15 36.331 15.3.0 3628 2 F NR_newRAT-Core R2-1815589

R2-1817335 Correction to inter-RAT measurement for NR Spreadtrum Communications CR Rel-15 36.331 15.3.0 3577 2 F NR_newRAT-Core R2-1815850

R2-1817587 UE context handling during handover to LTE-5GC Ericsson, Google Inc. CR Rel-15 36.331 15.3.0 3622 2 F NR_newRAT-Core R2-1815941

R2-1818023 Introdcution of including EUTRA UE capability for MRDC usage Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3525 3 F NR_newRAT-Core R2-1815863

R2-1818217 Cleanup on handover to EUTRA procedure Google Inc. CR Rel-15 36.331 15.3.0 3600 2 F NR_newRAT-Core, LTE_5GCN_connect-Core R2-1815857

R2-1818515 Clarification on B events in EN-DCApple CR Rel-15 36.331 15.3.0 NR_newRAT-Core 3679 2 F R2-1816032

=> All CRs above (from R2-1816664)are agreed

Moved from other AI but no change compared to agreed in principle CR at RAN2#103bis?

R2-1817621 Corrections regarding RLC failure reporting Samsung Telecommunications CR Rel-15 36.331 15.3.0 3629 2 F NR_newRAT-Core, LTE_HRLLC-Core R2-1815967

Moved from 10.4.2.1 to 10.4.2.0

R2-1817353 Corrections for handover between NR and E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3597 4 F NR_newRAT-Core R2-1816039

Moved from 10.4.2.2 to 10.4.2.0

=> Revised in R2-1818563

R2-1818563 Corrections for handover between NR and E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3597 5 F NR_newRAT-Core R2-1817353

R2-1817351 Corrections for Inter-RAT handover from E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3746 - F LTE_5GCN_connect-Core R2-1815856

Moved from 10.4.2.2 to 10.4.2.0

=> Revised R2-1818560

R2-1818560 Corrections for Inter-RAT handover from E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3746 1 F LTE_5GCN_connect-Core

R2-1818494 Some NR SA related corrections Samsung Telecommunications CR Rel-15 36.331 15.3.0 3634 2 F NR_newRAT-Core, LTE_HRLLC-Core R2-1815860

=> *Moved from 10.4.2.1 to 10.4.2.0*

=> All CRs above (from R2-1817621) are agreed

10.4.2.1 RRM measurements

Including output of email discussion [103bis#19][NR] Sorting of NR cells in measurement reports in LTE (Huawei)

Email discussion

R2-1817874 [103bis#19][NR] Sorting of NR cells in measurement reports in LTE Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

=> Noted

R2-1817909 Correction on sorting for reporting of NR cell measurements Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3638 2 F NR_newRAT-Core R2-1815851

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=> Update the term reportTrigger to that used in LTE
=> Correct the bullet indentation for the bullet after the first change
=> Agreed in R2-1818928

NR MO

R2-1816914 Frequency band indication in MeasObjectNR MediaTek Inc. CR Rel-15 36.331 15.3.0 3728 - F NR_newRAT-Core
=> Impact analysis to be updated
=> Agreed in R2-1818929

R2-1816574 CR to 36.331 on frequency band indicator in MeasObjectNR Qualcomm Incorporated draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

R2-1818064 Correction to description of parameter CarrierFreq Samsung CR Rel-15 36.331 15.3.0 3787 - F NR_newRAT-Core
=> Impact analysis to be updated
=> Change the first sentence of the field description to "Identifies the SSB frequency to be measured"
=> Check offline whether the second sentence in the field description is correct
=> Revised in R2-1818930 (Offline discussion 72)

R2-1818930 Correction to description of parameter CarrierFreq Samsung CR Rel-15 36.331 15.3.0 3787 1 F NR_newRAT-Core
=> Agreed

Events

R2-1817851 CR to 36.331 on inapplicability of NR SpCell in Event A3/A5 for EN-DC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3780 - F NR_newRAT-Core
- Ericsson think that this is already clear as A events are only for E-UTRA.
=> Not agreed

Reporting

R2-1817852 CR to 36.331 on reporting of NR serving frequencies which the UE is not configured to measure Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3781 - F NR_newRAT-Core
=> Agreed

R2-1817878 Clarification on reportQuantityRS-IndexNR and reportQuantityCellNR configuration Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3782 - F NR_newRAT-Core
- Ericsson think that if they are all false then RSRQ would be used as in NR.
=> RAN2 understand that according to the current spec if all the quantities are false the RSRQ will be used for the sorting of cells measurements.

R2-1818327 CR to 36331 on Correction of field names for NR measurement reporting LG Electronics Inc. CR Rel-15 36.331 15.3.0 3802 - F NR_newRAT-Core
=> Changes to be merged into R2-1818928
=> CR is not agreed

Relation of LTE IncMon

R2-1817461 Disabling IncMon with EN-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core
- Nokia explain the intention is that the additional carriers will not be measured so the UE behaves as if the parameters were not configured.
- Intel ask if the UE will measure those carriers with normal performance or reduced performance when the parameters are ignored.

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- Samsung think the network can explicitly reconfigure the UE to avoid any problem. LG agree the network should just reconfigure the UE.
- Ericsson think RAN4 should discuss the UE behaviour.
- Intel think we normally don't have implicit configuration of the UE.
- Huawei think we can leave this to RAN4 and the network needs to configure the UE appropriately.

=> RAN2 understand that it is clear from RAN4 specs that LTE incMon together with EN-DC or NR inter-RAT measurement is not supported, and the network has to avoid LTE incMon being configured at the same time as EN-DC or NR inter-RAT measurements

R2-1817693 Disabling IncMon with EN-DC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3774 - F NR_newRAT-Core Revised
=> Revised to R2-1818489

R2-1818489 Disabling IncMon with EN-DC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3774 1 F NR_newRAT-Core R2-1817693

Optimisation

R2-1817891 Applicability of s-measure in LTE Huawei, HiSilicon discussion R2-1815354

R2-1817892 CR to 36.331 for applicability of s-Measure in LTE Huawei, HiSilicon CR Rel-15 36.331 15.3.0 0467 1 F NR_newRAT-Core R2-1815355

Late

R2-1817622 Some NR SA related corrections Samsung Telecommunications CR Rel-15 36.331 15.3.0 3772 - F NR_newRAT-Core, LTE_HRLLC-Core R2-1815680 Late

Withdrawn

R2-1816913 Frequency band indication in MeasObjectNR MediaTek Inc. CR Rel-15 38.331 15.3.0 0584 - F NR_newRAT-Core Withdrawn

R2-1817875 Correction on sorting for reporting of NR cell measurements Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0716 - F NR_newRAT-Core Withdrawn

10.4.2.2 Inter-RAT Handover

Including both 36.331 and 38.331 corrections of both inter-RAT HO from NR to LTE and from LTE to NR should be discussed in this AI. Idle mobility from LTE to NR should be discussed in 10.4.5.7

Including capabilities related to inter-RAT handover and redirection involving NR, LTE/eLTE.

Including output of email discussion [103bis#20][NR] Inter-RAT HO (Huawei)

Email discussion on source connection release at inter-RAT HO

R2-1817356 Report of [103bis#20][NR] Inter-RAT HO Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1817357 [103bis#20] CR to 38331 on release after completion of inter-RA
=> Change discard to release
=> For ran-NotificationAreaInfo, add 'if stored'
=> Discuss offline the wording for the SDAP/PDCP requirements
=> Revised in R2-1818932 (CR# 0788) (Offline discussion 73)

R2-1818932 [103bis#20] CR to 38331 on release after completion of inter-RAT HO Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0788 - F NR_newRAT-Core
=> Agreed

R2-1817358 [103bis#20] CR to 36331 on release after completion of inter-RAT HO Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

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=> Remove the last 3 bullets
=> Align to the 38.331 CR
=> Revised in R2-1818933 (CR# 3808) (Offline discussion 73)

R2-1818933 [103bis#20] CR to 36331 on release after completion of inter-RAT HO Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3808 - F NR_newRAT-Core
=> Agreed

HO related capabilities

R2-1816754 Summary on UE capabilities for mobility and E-UTRA/5GC Intel Corporation discussion Rel-15 LTE_5GCN_connect-Core R2-1816037
- Huawei think that these capabilities are simple from the UE point of view and important that they are available from the network point of view. It is difficult to manage if some of these are not available. Ericsson also agree they should be mandatory without capability
- T-Mobile support the Ericsson and Huawei view.
- AT+T support the views of Ericsson and Huawei. ZTE and Nokia also.

Agreements
1: Redirection from E-UTRA/EPC to NR, Mandatory (without IoT).
2: Redirection from E-UTRA/5GC to NR, Mandatory (without IoT).
3: Redirection between E-UTRA/5GC and E-UTRA/EPC, Mandatory (without IoT)..

R2-1818015 Redirection related UE capabilities for mobility and LTE-5GC Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core
=>Revised in R2-1818865

R2-1818865 Redirection related UE capabilities for mobility and LTE-5GC Huawei, Hisilicon, CMCC, China Unicom discussion 10.4.2.2 Rel-15 NR_newRAT-Core

R2-1816736 TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC Intel Corporation CR Rel-15 36.331 15.3.0 3589 2 F LTE_5GCN_connect-Core R2-1815793
=> Redirection bits to be removed from the CR
=> Agreed in R2-1818967

R2-1816737 TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC Intel Corporation CR Rel-15 36.306 15.2.0 1660 2 F LTE_5GCN_connect-Core R2-1815794
=> Redirection bits to be removed from the CR
=> Agreed in R2-1818968

Inter-RAT HO to EN-DC configuration

R2-1817295 Support of inter-system handover from NR to EN-DC Ericsson discussion Rel-15 NR_newRAT-Core
- Huawei support to allow HO to EN-DC and think it is no cost.
- Nokia wonder why option 4 could not be used instead. Ericsson agree this is possible but think initial deployments will not have option 4
- T-Mobile support HO to EN-DC. Qualcomm also support this
- ZTE wonder why the PSCell needs to be added so quickly and think this is just optimisation.
- LG wonder if the UE supports this will it also support HO to NG-ENDC
- Intel wonder if the NR cell is the same or different from the source NR cell. Ericsson think it could be either cell and measurements could come from the source cell to select the NR cell. Agree it is an optimisation but it is required operators.
- T-Mobile explain that this HO is not motivated by coverage but other reasons.
- Samsung wonder whether this will really work with the CRs that are on the table.

Show of hands

1 Support IRAT HO to EN-DC [7]
2 Do not support IRAT HO to EN-DC [7]

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=> IRAT HO to EN-DC will not be supported in Rel-15

R2-1817296 Introduction of UE capability for inter-system EN-DC setup during handover from NR (38.331) Ericsson CR Rel-15 38.331 15.3.0 0630 - B NR_newRAT-Core

R2-1817298 Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331) Ericsson CR Rel-15 36.331 15.3.0 3743 - F NR_newRAT-Core

R2-1817297 Introduction of UE capability for inter-system EN-DC setup during handover from NR (38.306) Ericsson CR Rel-15 38.306 15.3.0 0056 - B NR_newRAT-Core

R2-1817362 Analysis for supporting the handover from NR to EN-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817363 CR on 37.340 for supporting the handover from NR to EN-DC Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 B NR_newRAT-Core

R2-1817364 CR on 36.331 for inter-system MR-DC HO Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1818194 CR on 38.331 for inter-system MR-DC HO Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

Other

R2-1816907 Full configuration for inter-RAT handover MediaTek Inc. CR Rel-15 38.331 15.3.0 0582 - F NR_newRAT-Core
- MediaTek explain that full config is needed to the PDCP and SDAP configuration
=> Revised in R2-1818934 (Offline discussion 75)

R2-1818934 Full configuration for inter-RAT handover MediaTek Inc. CR Rel-15 38.331 15.3.0 0582 1 F NR_newRAT-Core
=> Agreed

R2-1817299 Modification of condition for fullConfig at inter-system handover from E-UTRA-EPC to NR (38.331) Ericsson CR Rel-15 38.331 15.3.0 0631 - F NR_newRAT-Core

R2-1817360 Corrections for handover to E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3748 - F NR_newRAT-Core
=> Revised in R2-1818566

R2-1818566 Corrections for handover to E-UTRA in TS36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3748 1 F NR_newRAT-Core
=> Not agreed

R2-1817361 Corrections for T304 expiry Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0641 - F NR_newRAT-Core
=> Revised in R2-1818567

R2-1818567 Corrections for T304 expiry Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0641 1 F NR_newRAT-Core
=> Not agreed

R2-1817359 Corrections for handover preparation in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3747 - F LTE_5GCN_connect-Core
=> Revised in R2-1818565

R2-1818565 Corrections for handover preparation in 36.331 Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3747 1 F LTE_5GCN_connect-Core
=> ME box should not be ticked
=> Impact analysis to be removed
=> Agreed in R2-1818935

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10.4.2.3 Others

Other corrections to LTE RRC for EN-DC and SA

Including output of email discussion [103bis#21][NR] SupportedbandListNR (Ericsson)

Email discussion

R2-1817526 Email discussion report [103bis21][NR] SupportedbandListNR Ericsson discussion Rel-15 NR_newRAT-Core

- Nokia think the that as this list was present for EN-DC then it should contain the NR bands for EN-DC and then we should have a separate band list for NR SA. It could be used as a criteria for setting a filter for requesting MR-DC capabilities.
- Qualcomm think it can be used for knowing the bands the UE can measure on.
- Samsung think this was added before we had the common MR-DC container.

=> Noted

R2-1817527 Clarification on SupportedbandListNR Ericsson CR Rel-15 36.306 15.2.0 1653 1 F NR_newRAT-Core R2-1814570

R2-1817528 Clarification on SupportedbandListNR Ericsson CR Rel-15 36.331 15.3.0 3618 1 F NR_newRAT-Core R2-1814571

R2-1817243 Alternative signalling option for SupportedBandListNR Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1665 - F NR_newRAT-Core

=> Revised in R2-1818937 (Offline discussion 76)

R2-1818937 Alternative signalling option for SupportedBandListNR Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1665 1 F NR_newRAT-Core

=> Revised in R2-1818987

R2-1818987 Alternative signalling option for SupportedBandListNR Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1665 2 F NR_newRAT-Core

=> Agreed

R2-1817244 Alternative signalling option for SupportedBandListNR Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3741 - F NR_newRAT-Core

=> Describe the impact analysis for both EN-DC and SA UEs on the coversheet

=> Other details can be worked offline

=> Revised in R2-1818936 (Offline discussion 76)

R2-1818936 Alternative signalling option for SupportedBandListNR Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3741 1 F NR_newRAT-Core

=> Remove the Conditional presence and add the conditions into the field description

=> Revised in R2-1819064

R2-1819064 Alternative signalling option for SupportedBandListNR Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3741 2 F NR_newRAT-Core

=> Revised in R2-1819074

R2-1819074 Alternative signalling option for SupportedBandListNR Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3741 3 F NR_newRAT-Core

=> Agreed

Change of lgical channel ID

R2-1816858 Change of logical channel ID via reconfiguration of RLC bearer ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3639 2 F NR_newRAT-Core R2-1815947

R2-1817439 Reconfiguration of logical channel ID Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3760 - F NR_newRAT-Core

IDC

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R2-1817725 Correction concerning IDC reporting Samsung Telecommunications CR Rel-15 36.331 15.3.0 3775 - F NR_newRAT-Core
=> Impact analysis to be added
=> Offline discussion to conclude whether any change is needed (Offline discussion 77, Samsung)
=> Revised in R2-1819021

R2-1819021 Correction concerning IDC reporting Samsung Telecommunications CR Rel-15 36.331 15.3.0 3775 1 F NR_newRAT-Core
=> Agreed

Other

R2-1818107 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 36.331 15.3.0 3794 - F NR_newRAT-Core
- Handled in user plane session

R2-1817805 Clarification on the candidateCellInfoListNR in RRM-Config Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core
- ZTE think the list can include multiple frequencies in this list so how is the sorting done.
=> Coversheet to be updated
=> ME box should not be ticked
=> Impact analysis to be removed
=> In the field description replace measurement information with results
=> Remove " Cells and beams are included in order of decreasing RSRP if available, otherwise in order of decreasing RSRQ if available, otherwise in order of decreasing SINR."
=> Agreed in R2-1818938

Optimisation

R2-1817726 Bandwidth for IDC reporting with NR Samsung Telecommunications discussion Rel-15 NR_newRAT-Core

Withdrawn

R2-1817793 Discussion on the UL path of split SRB in EN-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core Withdrawn

10.4.4 UE capabilities

No documents should be submitted to 10.4.4. Please submit to 10.4.4.x.

10.4.4.0 In principle agreed CRs

In principle agreed CR to 38.306 and 36.306

38.306 CRs

R2-1817039 Clarification for Interruption-based and gap-based SFTD measurement Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.3.0 0016 4 F NR_newRAT-Core R2-1814537

R2-1817040 Clarification to UE capability of independentGapConfig for inter-RAT NR measurement not yet configured with EN-DC Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.3.0 0037 1 F NR_newRAT-Core R2-1814538

R2-1817386 Additional UE capabilities for NR standalone Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0035 2 F NR_newRAT-Core R2-1815888

R2-1817387 Timer based BWP switching Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0033 1 F NR_newRAT-Core R2-1814230

38.331 CRs

36.306 CRs

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R2-1817383 UE capabilty for IDC mechanism for EN-DC operation Qualcomm Incorporated CR Rel-15 36.306 15.2.0 1652 1 F NR_newRAT-Core R2-1814233

36.331 CRs

R2-1818212 Clarification on capabilities transferring Google Inc. CR Rel-15 36.331 15.3.0 3578 1 F NR_newRAT-Core R2-1813882

R2-1817384 UE capabilty for IDC mechanism for EN-DC operation Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3599 2 F NR_newRAT-Core R2-1815866

R2-1817388 Correction to FDD/TDD Diff for NR PDCP Capabilities Qualcomm Incorporated CR Rel-15 36.331 15.3.0 3674 1 F NR_newRAT-Core R2-1815556

=> All CRs above (starting from R2-1817039) are agreed

Flagged CR

R2-1818024 Clarification on physical layer parameters of UE capability Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0047 1 F NR_newRAT-Core R2-1815146

- This is updated compared to the AIP CR from RAN2#103bis

=> Change "first bit" to "first bit/left most"

=> Agreed in R2-1818886

R2-1817385 Additional UE capabilities for NR standalone Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0291 2 F NR_newRAT-Core R2-1815887

=> Move pCell-FR2 to Phy-ParametersFR2

=> Agreed in R2-1818887

R2-1817530 Update on L2 capabilities Ericsson CR Rel-15 38.331 15.3.0 0355 1 F NR_newRAT-Core R2-1814574

=> Create an IE for SDAP parameters and include as-ReflectiveQoS in the new IE

=> Revised in R2-1818888 (Offline discussion 41)

R2-1818888 Update on L2 capabilities Ericsson CR Rel-15 38.331 15.3.0 0355 2 F NR_newRAT-Core

=> Agreed

R2-1817529 Update on L2 capabilities Ericsson CR Rel-15 38.306 15.3.0 0038 1 F NR_newRAT-Core R2-1814573

=> Revised in R2-1818892 (Offline discussion 41)

R2-1818892 Update on L2 capabilities Ericsson CR Rel-15 38.306 15.3.0 0038 2 F NR_newRAT-Core

=> Agreed

10.4.4.1 TS

38.306 rapporteur inputs, etc

Including output of email discussion [103bis#22][NR] UE capabilities (DOCOMO/Intel)

R2-1816477 Update of L1/RF capabilities NTT DOCOMO, INC. CR Rel-15 38.331 15.3.0 0295 1 F NR_newRAT-Core R2-1814254 Late

- Ericsson think there is an issue with the CSI RS capabilities in the existing ASN.1 and the UE could report 2000 separate parameters for each band combination and not sure how this can be used by UE or n/w. DOCOMO agrees that the feature set DL becomes very large and not clear why RAN1 requires such flexibility.
- Qualcomm is also checking why this flexibility is needed.

=> To be updated based on comments received offline

=> Ensure that changes to voice parameters are only in one 38.331 CR and ensure that they are aligned to agreement from last meeting

=> Offline discussion about CSI-RS capabilities (Wednesday morning coffee break and RAN1 colleagues invited) (Offline discussion 42)
=> Impact analysis to be updated
=> Endorsed as a baseline to be further updated to add the CSI-RS capability
=> Revised in R2-1818890

R2-1818890 Update of L1/RF capabilities NTT DOCOMO, INC. CR Rel-15 38.331 15.3.0 0295 2 F NR_newRAT-Core

✉ **[104#11][NR] CSI-RS capabilities (DCM/Intel)**
Conclude the default parameters and the signalling details for CSI-RS capabilities. RAN1 colleagues must participate in this discussion.
Intended outcome: Agreed CRs to 38.331 and 38.306 (priority is 38.331)
Deadline: Wednesday 2018-11-28

R2-1819052 [DRAFT] LS on MIMO codebook and CSI-RS/SRS association capabilities NTT DOCOMO, INC. LS out Rel-15 NR_newRAT-Core To:RAN1 Cc:RAN4

R2-1817713 Update of UE capabilities Intel Corporation CR Rel-15 38.306 15.3.0 0063 - F NR_newRAT-Core Late
- Nokia think that 38.331 needs to be aligned to this CR for 38.306 for NR voice as last meeting we decided to remove the 'forMCG'
=> To be updated aligned with the 38.331 CR
=> Description of feature set to be further worked on
=> References from UE capability to appropriate feature in RAN2 specs to be added and can be done as an exercise for the next meeting.
=> Meaning when parameters can be absent to be added and can be added to this CR if possible, otherwise can be done as an exercise for the next meeting
=> Revised R2-1818891(Offline discussion 43)

R2-1818891 Update of UE capabilities Intel Corporation CR Rel-15 38.306 15.3.0 0063 1 F NR_newRAT-Core
=> Revised in R2-1819094

R2-1819094 Update of UE capabilities Intel Corporation CR Rel-15 38.306 15.3.0 0063 1 F NR_newRAT-Core
=> Remove the SRS tx switching from this CR (covered by another CR)
=> Endorsed in R2-1819098 as a baseline to be further updated to add the CSI-RS capability

10.4.4.2 UE capabilities for EN-DC

Including output of email discussion [103bis#23][NR] Relation of feature sets and band combinations (Ericsson)
Including output of email discussion [103bis#24][NR] SRS switching capability (Huawei)
Email discussion [103bis#23][NR] Relation of feature sets and band combinations (Ericsson)

R2-1817821 [103bis-23] Relation of feature sets and band combinations Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817237 Summary of MR-DC feature sets and band combination retrieval Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core
- Discussed together with email discussion above

Agreements
1: The network is allowed to include both NR and E-UTRA band numbers even when requesting capabilities for only one RAT-type (using requestedFreqBandsNR-MRDC). The UE includes featureSets required by the Feature Set Combinations used in the MR-DC/NR band combinations based on the provided filter (which is requestedFreqBandsNR-MRDC which is

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an OCTET STRING that contains FreqBandList in TS 38.331), and not based on the included supportedBandCombinations.
2: If the eNB includes the eutra-nr-only flag for a UECapabilityEnquiry for “nr”, the UE omits featureSets which it would only refer to from NR-only band combinations.
FFS If the eNB includes the eutra-nr-only flag for a UECapabilityEnquiry for “lte", the UE omits the legacy band combinations.
3 It is confirmed that except for the featureSets all other parameters in the UE-NR-Capabilities (i.e. NR standalone capabilities outside of capability coordination) shall not be dependent on whether or not the NW also requested the UE-MRDC-Capabilities (no need to capture specification in specification).
4 For both EN-DC and NR SA the FreqBandList must be included by the network for the UE to provide any LTE feature sets, NR features sets, and MRDC band combinations and NR band combinations.
5 How to prioritise the feature sets to be included in case the capability size limit is reached is left to UE implementation.

R2-1817729 Remaining issues for feature set reporting with Alt3 of eMail 23 Samsung Telecommunications discussion Rel-15 NR_newRAT-Core

R2-1817823 Correction to UE capability procedures in 38.331 Ericsson CR Rel-15 38.331 15.3.0 0700 - F NR_newRAT-Core
=> Revised in R2-1818586 (Offline discussion 44)

R2-1818586 Correction to UE capability procedures in 38.331 Ericsson CR Rel-15 38.331 15.3.0 0700 1 F NR_newRAT-Core

✉ **[104#13][NR] UE capability procedures in 38.331 and 36.331 (Ericsson)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

R2-1817837 Correction to UE capability procedures in 36.331 Ericsson LM CR Rel-15 36.331 15.3.0 3779 - F NR_newRAT-Core
=> Revised in R2-1818587 (Offline discussion 44)

R2-1818587 Correction to UE capability procedures in 36.331 Ericsson LM CR Rel-15 36.331 15.3.0 3779 1 F NR_newRAT-Core

Others related to UE capability enquiry

R2-1816984 Clarification of UE procedure when UE receives the UECapabilityEnquiry in 36.331 Samsung CR Rel-15 36.331 15.3.0 3730 - F NR_newRAT-Core
=> Not agreed

R2-1816982 Clarification of UE procedure when UE receives the UECapabilityEnquiry Samsung discussion Rel-15 NR_newRAT-Core

R2-1818208 Correction to UE capability enquiry Google Inc. CR Rel-15 36.331 15.3.0 3550 1 F NR_newRAT-Core R2-1813582
=> Not agreed

R2-1818029 Avoiding duplication BCs report in NR SA and MR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1815140
- MediaTek think that we should not modify the LTE capability reporting.
- Samsung think this would imply that even to request LTE capability the network would have to provide the requested frequency bands for EN-DC
=> Noted

R2-1818030 Avoiding duplication BCs report in LTE SA capability and MR-DC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3650 1 F NR_newRAT-Core R2-1815141

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Email discussion [103bis#24][NR] SRS switching capability (Huawei)

R2-1818016 Email discussion report on SRS switching capability Huawei, Hisilicon report Rel-15 NR_newRAT-Core

- Ericsson agree if it is needed then it is best included in the band combinations, but we should avoid that this leads to the UE providing more fallback band combinations with different values. We could mandate that the UE does not provide fallback BCs for the purpose of providing different SRS switching capabilities.
- Huawei think in LTE the might report fallback combinations but there should not be many.
- DOCOMO thinks this breaks the feature set approach.

Agreements
1 Reuse LTE way to report SRS carrier switching.
2 SRS carrier switching capabilities are only reported if requested by the n/w

R2-1818017 CR on introducing SRS carrier switching capability Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0725 - F NR_newRAT-Core
=> To be updated to add the n/w request bit as per agreement above
=> Use the LTE approach for indicating the NR freq band
=> Revised in R2-1818893 (Offline discussion 45)

R2-1818893 CR on introducing SRS carrier switching capability Huawei, Hisilicon CR Rel-15 38.331 15.3.0 0725 1 F NR_newRAT-Core
=> To be revised to align to the RAN1 request

✉ **[104#14][NR] SRS carrier switching capability (Huawei)**
Intended outcome: Agreed CRs to 38.331 and 38.306
Deadline: Monday 2018-11-26

R2-1818018 CR on introducing SRS carrier switching capability Huawei, Hisilicon CR Rel-15 38.306 15.3.0 0065 - F NR_newRAT-Core
=> Revised in R2-188894 (Offline discussion 45)

R2-1818894 CR on introducing SRS carrier switching capability Huawei, Hisilicon CR Rel-15 38.306 15.3.0 0065 1 F NR_newRAT-Core

General

R2-1816992 UE capability handling for FDD/TDD and FR1/FR2 Samsung CR Rel-15 38.306 15.3.0 0054 - F NR_newRAT-Core
=> Offline discussion to improve the text
=> Revised in R2-1818895 (Offline discussion 46)

R2-1818895 UE capability handling for FDD/TDD and FR1/FR2 Samsung CR Rel-15 38.306 15.3.0 0054 1 F NR_newRAT-Core
=> Agreed

R2-1816989 UE capability handling for FDD/TDD and FR1/FR2 Samsung discussion Rel-15 NR_newRAT-Core

RF parameters

R2-1817239 Clarification to TS 38.331 on fields in BandParameters Nokia, Nokia Shanghai Bell CR Rel-16 38.331 15.3.0 0619 - F NR_newRAT-Core

- DOCOMO think that UL must be optional for a DL only carrier
- Qualcomm think no change is needed as the UE knows what it supports and will fill the fields appropriately

=> Not agreed

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R2-1817240 Clarification to TS 36.306 on supportedMIMO-CapabilityDL-r15 Nokia, Nokia Shanghai Bell CR Rel-16 36.306 15.2.0 1663 - F NR_newRAT-Core
=> To be checked offline for consistency with STTI (Offline discussion 48)
=> Revised in R2-1818993

R2-1818993 Clarification to TS 36.306 on supportedMIMO-CapabilityDL-r15 Nokia, Nokia Shanghai Bell CR Rel-16 36.306 15.2.0 1663 1 F NR_newRAT-Core
=> Revised to R2-1819073

R2-1819073 Clarification to TS 36.306 on supportedMIMO-CapabilityDL-r15 Nokia, Nokia Shanghai Bell CR Rel-16 36.306 15.2.0 1663 1 F NR_newRAT-Core
=> Agreed

R2-1818965 Clarification on supportedMIMO-CapabilityDL-r15 Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3809 - F NR_newRAT-Core
=> Agreed

R2-1817242 Clarification to TS 36.331 on MIMO capabilities in EN-DC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3740 - F NR_newRAT-Core
- Intel is ok with the intention but for MIMO layers support we should not fallback to the UE category.
- DOCOMO think it would be possible to reuse the existing and add a sentence to cover the EN-DC case.

=> Revised in R2-1818896 (Offline discussion 49)

R2-1818896 Clarification to TS 36.331 on MIMO capabilities in EN-DC Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3740 1 F NR_newRAT-Core
=> Agreed

R2-1817464 UE capability on PA architecture Apple Inc. CR Rel-15 38.331 15.3.0 0649 - F NR_newRAT-Core
- Sprint think this is not yet concluded in RAN4 and also think this change is not backwards compatible.
- T-Mobile think RAN4 are still discussing
- CHTTL think this is beneficial for the network to know.

=> CR to be made backwards compatible
=> Revised in R2-1818897 (Offline discussion 50)
=> Comeback Friday to consider status in RAN4 (preferably LS to be received)

R2-1819075 LS on new UE capability for intra-band EN-DC and intra-band NR UL CA (R4-1816623; contact: CHTTL) RAN4 LS in Rel-15 NR_newRAT-Core To:RAN2 Cc:RAN1
=> Noted

R2-1818897 UE capability on PA architecture Apple Inc. CR Rel-15 38.331 15.3.0 0649 1 F NR_newRAT-Core
=> Revised in R2-1819090

R2-1819090 UE capability on PA architecture Apple Inc. CR Rel-15 38.331 15.3.0 0649 2 F NR_newRAT-Core
=> Agreed

R2-1817465 UE capability on PA architecture Apple Inc. CR Rel-15 38.306 15.3.0 0060 - F NR_newRAT-Core
=> Comeback Friday to consider status in RAN4 (preferably LS to be received)

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R2-1818976 UE capability on PA architecture Apple Inc. CR Rel-15 38.306 15.3.0 0060 1 F NR_newRAT-Core
=> Revised in R2-1819091

R2-1819091 UE capability on PA architecture Apple Inc. CR Rel-15 38.306 15.3.0 0060 2 F NR_newRAT-Core
=> Revised to R2-1819100

R2-1819100 E capability on PA architecture Apple Inc. CR Rel-15 38.306 15.3.0 0060 2 F NR_newRAT-Core
= >Agreed

Contiguous EN-DC

R2-1817706 CR on signaling contiguous EN-DC capability Intel Corporation CR Rel-15 38.331 15.3.0 0689 - F NR_newRAT-Core
- Nokia ask as it is included in the band combination level does it mean we only have 1 LTE and NR band in the band combination. Intel explain the contiguous operation only relates to the PCell and PSCell.
=> Change the CR so if the new field is absent the UE support contiguous by default, and remove contiguous code point from the IE.
=> Can also be discussed offline whether to add the signalling per band per band combination
=> Revised in R2-1818898 (Offline discussion 51)

R2-1818898 CR on signaling contiguous EN-DC capability Intel Corporation CR Rel-15 38.331 15.3.0 0689 1 F NR_newRAT-Core
=> Agreed

R2-1817707 CR on signaling contiguous EN-DC capability Intel Corporation CR Rel-15 38.306 15.3.0 0062 - F NR_newRAT-Core
=> Revised in R2-1818899

R2-1818899 CR on signaling contiguous EN-DC capability Intel Corporation CR Rel-15 38.306 15.3.0 0062 1 F NR_newRAT-Core
=> Agreed

R2-1818027 Signalling introduction of EN-DC contiguous and non-contiguous Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0728 - F NR_newRAT-Core

R2-1818028 Introduction of EN-DC contiguous and non-contiguous Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0067 - F NR_newRAT-Core

R2-1818026 Discussion on EN-DC contiguous and non-contiguous signalling Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core R2-1815145

SRS antenna switching

R2-1817376 SRS antenna switching UE capabilities Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

R2-1818039 UE capability on SRS antenna switching Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818040 CR on SRS anttena switch Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0730 - F NR_newRAT-Core
=> Revised to align with the LTE signalling approach (i.e. remove the additional bitmap)
=> Offline discussion to consider how the capability is interpreted for fallback combinations and whether any restriction on inclusion of fallback combinations is needed
=> Revised in R2-1818900 (Offline discussion 52, Qualcomm)

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R2-1818900 CR on SRS anttena switch Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0730 1 F NR_newRAT-Core
=> Fix ASN.1 syntax issues
=> Agreed in R2-1819105

R2-1819077 CR on SRS antenna switching capability Huawei, HiSilicon CR Rel-15 38.306 0071 F NR_newRAT-Core
=> Agreed

L1 data rate

R2-1817826 Clarification to L1 data rate formula in 38.306 Ericsson CR Rel-15 38.306 15.3.0 0064 - F NR_newRAT-Core
=> Not agreed (captured in rapporteur's CR)

L1 parameters

R2-1818025 CR on parallel transmission capability Huawei, HiSilicon CR Rel-15 38.306 15.3.0 0066 - F NR_newRAT-Core
=> To be included in the rapporteur's CR

R2-1817327 Clarify for per CC UL/DL modulation order capabilities Spreadtrum Communications CR Rel-15 38.306 15.3.0 0057 - F NR_newRAT-Core
=> To be discussed offline to ensure alignment with RAN1 specs
=> Revised in R2-1819022 (Offline discussion 96)

R2-1819022 Clarify for per CC UL/DL modulation order capabilities Spreadtrum Communications CR Rel-15 38.306 15.3.0 0057 1 F NR_newRAT-Core

✉ **[104#15][NR] Per CC UL/DL modulation order capabilities (Spreadtrum)**
Intended outcome: Agreed CR to 38.306
Deadline: Monday 2018-11-26

L2 parameters

R2-1816720 CR to 38.306 for PDCP CA duplication for SRB ZTE Corporation, Sanechips CR Rel-15 38.306 15.3.0 0052 - F NR_newRAT-Core
=> Final wording to be concluded offline. Modifying pdcp-DuplicationSRB3 can also be considered
=> Revised in R2-1819023 (Offline discussion 97)

R2-1819023 CR to 38.306 for PDCP CA duplication for SRB ZTE Corporation, Sanechips CR Rel-15 38.306 15.3.0 0052 1 F NR_newRAT-Core
=> Add ", if EN-DC is supported, " before SRB3 in pdcp-DuplicationSRB3
=> Agreed in R2-1819078

R2-1816541 Clarification of multipleConfiguredGrants MediaTek Inc. CR Rel-15 38.306 15.3.0 0051 - F NR_newRAT-Core
=> Final wording to be concluded offline.
=> Revised in R2-1819024 (Offline discussion 98)

R2-1819024 Clarification of multipleConfiguredGrants MediaTek Inc. CR Rel-15 38.306 15.3.0 0051 1 F NR_newRAT-Core
=> Remove the [] from the [2]
=> Agreed in R2-1819079

Other

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R2-1817238 Clarification to TS 38.306 on Capability Coordination Nokia, Nokia Shanghai Bell CR Rel-15 38.306 15.3.0 0055 - F NR_newRAT-Core
=> Being discusses as part of offline discussion 15

Withdrawn

R2-1817241 Clarification to TS 36.306 on MIMO capabilities in EN-DC Nokia, Nokia Shanghai Bell CR Rel-15 36.306 15.2.0 1664 - F NR_newRAT-Core Withdrawn

R2-1817822 Correction to UE capability procedures in 36.331 Ericsson CR Rel-15 38.331 15.3.0 0699 - F NR_newRAT-Core Withdrawn

R2-1816985 UE capability handling for FDD/TDD and FR1/FR2 Samsung Electronics France SAdiscussion Rel-15 NR_newRAT-Core Withdrawn

10.4.4.3 UE capabilities for standalone

DRB IP capabilities

R2-1816288 Split DRB-IP data rate for UL and DL Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core R2-1814944 Revised
=> Revised to R2-1818507

R2-1818507 Split DRB-IP data rate for UL and DL Qualcomm CDMA Technologies discussion Rel-15 NR_newRAT-Core R2-1816288 Late
- Huawei would like to understand if other UE vendors consider this useful
- LG thinks this gives flexibility to the UE implementation and hence is a good idea
- Nokia think this is a late change as it would imply that the data rate on UL or DL would be less that the maximum
- Apple support the proposal. OPPO support the proposal. Intel also

Agreements
1 Proposal: DRB-IP data rate capability will be signalled as independent UL DRB-IP data rate and DL DRB-IP data rate (min value that can be signalled for each parameter remains 64kbps)

=> Draft LS to CT1 to inform them of our agreement. Draft LS in R2-1819027 (Offline discussion 99, Qualcomm)

R2-1819027 [DRAFT] UE capability related to integrity protection of DRBs Qualcomm LS out Rel-15 NR_newRAT-Core To:SA3, CT1, RAN3
=> Approved in R2-1819080

R2-1817379 Integrity Protection data rate enumeration and UL/DL split Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core
- MediaTek think that we should stick to 64 for R15. Samsung also have the same view. Ericsson also think that 64 is enough for the use case. Nokia also have this view
- Apple would like the UE to be able to support higher data rate without having to support full data rate

=> Noted

Other

R2-1817378 EUTRA UE capability filtering in NR UE capability enquiry Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0292 1 F NR_newRAT-Core R2-1814239

✉ **[104#32][NR] Filtering in NR UE capability enquiry (Qualcomm)**
To progress the filtering of the E-UTRA capabilities in the NR UE capability enquiry
Intended outcome: Agreeable CR to next meeting
Deadline: Monday 2018-02-07

R2-1817380 Inter-frequency handover capability Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0643 - F NR_newRAT-Core

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=> Revised in R2-1819055

R2-1819055 Inter-frequency handover capability Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0643 1 F NR_newRAT-Core
=> Agreed

R2-1817381 Inter-frequency handover capability Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0058 - F NR_newRAT-Core
=> Revised in R201819056

R2-1819056 Inter-frequency handover capability Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0058 1 F NR_newRAT-Core
=> Agreed

=> More time given for offline checking (Offline discussion 950)
- Update from offline: CRs are now agreeable

R2-1817389 UE capability for inter-RAT handover from NR to E-UTRA with NR SCG configuration Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0644 - F NR_newRAT-Core

R2-1817390 UE capability for inter-RAT handover from NR to E-UTRA with NR SCG configuration Qualcomm Incorporated CR Rel-15 38.306 15.3.0 0059 - F NR_newRAT-Core

10.4.5 Idle/inactive mode procedures

This AI addresses the idle and inactive behaviour specified in 38.304 or 36.304. Other aspects related to inactive (e.g. state transitions or other behaviour triggered by cell reselection, out of coverage, etc) are covered under RRC agenda items (10.4.1.x)

Documents in this agenda item will be handled in a break out session

10.4.5.0 In principle agreed CRs

R2-1816301 Correction to description of PO for default association Samsung Electronics Co., Ltd CR Rel-15 38.304 15.1.0 0049 2 F NR_newRAT-Core R2-1815780
=> Agreed

R2-1816495 Corrections on 38.304 OPPO CR Rel-15 38.304 15.1.0 0051 2 F NR_newRAT-Core R2-1815977
=> Agreed

R2-1816678 CR on PDCCH monitoring occasions for paging in TS 38.304 ZTE Corporation, Sanechips CR Rel-15 38.304 15.1.0 0055 2 F NR_newRAT-Core R2-1815978
=> Agreed

R2-1816999 Correction to Ambiguous Terminologies with respect to Cell Ranking Samsung Electronics CR Rel-15 38.304 15.1.0 0082 - D NR_newRAT-Core Withdrawn

R2-1817153 Correction on paging for LTE connected to 5GC Ericsson CR Rel-15 36.304 15.1.0 0750 1 F NR_newRAT-Core R2-1814517
=> Agreed

R2-1817200 CR to 38.304 on Release and Redirect in 2-step procedure Ericsson CR Rel-15 38.304 15.1.0 0056 2 F NR_newRAT-Core R2-1815961
=> Agreed

R2-1817261 Correction to Ambiguous Terminologies with respect to Cell Ranking Samsung Electronics CR Rel-15 38.304 15.1.0 0063 2 D NR_newRAT-Core R2-1815975
=> Agreed

R2-1817662 Clarification of mobility state detection criteria Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0067 2 F NR_newRAT-Core R2-1815976
=> Agreed

R2-1818124 Corrections on P-Max description CMCC CR Rel-15 38.331 15.3.0 0457 1 F NR_newRAT-Core R2-1815259

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=> Agreed

R2-1818125 Correction on definition of PEMAX1, PEMAX2 CMCC CR Rel-15 38.304 15.1.0 0066 2 F NR_newRAT-Core R2-1815777
=> Agreed

Flagged:

R2-1817661 Clarification on final suitability check Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0062 3 F NR_newRAT-Core R2-1816004

=> Change “that cell” to “the target cell for cell reselection”
=> With this change, CR is agreed in R2-1818681

R2-1818509 Clarification of Paging Monitoring Occasion Qualcomm Incorporated CR Rel-15 38.304 15.1.0 0047 4 F NR_newRAT-Core R2-1816286 Late
=> Agreed

10.4.5.1 TS

Rapporteur inputs.

10.4.5.2 Cell selection/reselection

Corrections to criteria and rules for cell selection and reselection

R2-1816712 Introduction of speed state scale factors for intra-frequency cell reselection in SIB2 ZTE Corporation, Sanechips CR Rel-15 38.331 15.3.0 0566 - F NR_newRAT-Core
=> Covered by agreed CR.

R2-1818370 Correction on the conditional presence of CellSelectionInfo in SIB1 Samsung Electronics CR Rel-15 38.331 15.3.0 0764 - F NR_newRAT-Core
=> Already discussed and will be addressed by Huawei

R2-1816812 Clarification of UE behaviour when frequencyBandList is absent in SIB4 MediaTek Inc. CR Rel-15 38.331 15.3.0 0577 - F NR_newRAT-Core
=> change need R to need S
CB on Friday:=> Revised in R2-1818880 to improve the field description (Offline#266, MTK)

R2-1817003 Further clarification on final suitability check Samsung Electronics CR Rel-15 38.304 15.1.0 0083 - F NR_newRAT-Core
=> Merged to R2-1818681.

R2-1816714 Consideration on introducing MICO mode ZTE Corporation, Sanechips discussion
=> Noted
=> MICO mode is not supported in RRC_INACTIVE state.

R2-1816715 CR on introducing MICO mode in TS38.304 ZTE Corporation, Sanechips CR Rel-15 38.304 15.1.0 0080 - F NR_newRAT-Core

R2-1816443 Clarification of MICO mode in inactive state LG Electronics France CR Rel-15 38.300 15.3.1 0112 - F NR_newRAT-Core
=> Not pursued

R2-1816444 MICO mode operation in inactive state LG Electronics France discussion NR_newRAT-Core

R2-1817142 MICO mode in NR Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817143 Introduction of MICO mode Ericsson, Fujitsu CR Rel-15 38.304 15.1.0 0088 - F NR_newRAT-Core
=> Revised in R2-1818682 (Offline#200, Ericsson)

R2-1818682 Introduction of MICO mode Ericsson, Fujitsu CR Rel-15 38.304 15.1.0 0088 1 F NR_newRAT-Core

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=> Change the last sentence to “When MICO mode is deactivated, the UE shall perform all idle mode tasks.”
=> With this change CR is agreed in R2-1818881

R2-1816319 Correction to Cell Quality derivation for cell reselection Samsung Electronics Co., Ltd CR Rel-15 38.304 15.1.0 0078 - F NR_newRAT-Core
=> Merged into R2-1818683.

R2-1817138 Correction for missing fields in SIB2 and SIB4 Ericsson CR Rel-15 38.331 15.3.0 0603 - F NR_newRAT-Core
=> Change the two changes to “as specified in TS 38.304 [4]” in order to avoid duplication.
=> With this change CR is agreed in R2-1818684.

R2-1816496 Corrections on storing and discarding UE AS context OPPO CR Rel-15 38.304 15.1.0 0079 - F NR_newRAT-Core
=> Change “configuration for the RRC_INACTIVE state as defined in *SuspendConfig*” to align with 38.331
=> Revised in R2-1818685. (Offline#204, OPPO)

R2-1818685 Corrections on storing and discarding UE AS context OPPO CR Rel-15 38.304 15.1.0 0079 1 F NR_newRAT-Core
=> Change to “5.2.4.8 Inter-RAT Cell reselection in RRC_INACTIVE state
In the RRC_INACTIVE state, upon cell reselection to another RAT, the UE shall discard the stored UE inactive AS context as specified in TS38.331 [3] and any configuration for RRC_INACTIVE state.”
=> With this change, CR is agreed in R2-1818883

R2-1816716 CR on UE behavior if emergency call is not supported in the current cell ZTE Corporation, Sanechips CR Rel-15 38.304 15.1.0 0081 - F NR_newRAT-Core
=> Revised in R2-1818686 to align with LTE procedure if applicable for NR. (Offline#205, ZTE)

R2-1816933 Correction on ASN.1 define of s-IntraSearchP MediaTek Inc. CR Rel-15 38.331 15.3.0 0586 - F NR_newRAT-Core
=> Not pursued

R2-1817004 Clarification of UE behavior for barred cell Samsung Electronics discussion
=> Noted

R2-1817005 Correction to UE behavior for barred cell Samsung Electronics CR Rel-15 38.304 15.1.0 0084 - F NR_newRAT-Core
=> Change shall back to may
=> Add another “if” for the SIB case.
=> Revised in R2-1818687 (Offline#206, Samsung)

R2-1818687 Correction to UE behavior for barred cell Samsung Electronics CR Rel-15 38.304 15.1.0 0084 1 F NR_newRAT-Core Revised to R2-1818998

R2-1818998 Correction to UE behavior for barred cell Samsung Electronics CR Rel-15 38.304 15.1.0 0084 2 F NR_newRAT-Core
=> CR is agreed.

R2-1817006 Clarification of UE behavior upon entering Any Cell Selection state Samsung Electronics discussion

R2-1817007 Correction to UE behavior upon entering Any Cell Selection state Samsung Electronics CR Rel-15 38.304 15.1.0 0085 - F NR_newRAT-Core

R2-1817672 Correction to cell access barring alleviation in cell reselection Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0096 - F NR_newRAT-Core
=> The first change is postponed
=> Only the second change is agreed in R2-1818688.

R2-1817123 Corrections on cell selection and reselection states Ericsson CR Rel-15 38.304 15.1.0 0008 4 F NR_newRAT-Core R2-1814508
=> Wait for the progress in the main session.

R2-1817131 Miscellaneous corrections related to p-Max Ericsson CR Rel-15 38.331 15.3.0 0347 1 F NR_newRAT-Core R2-1814527
=> Not pursued

R2-1817134 Open issues for Idle mode related signalling Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817135 Miscellaneous corrections related to idle mode SIBs Ericsson CR Rel-15 38.331 15.3.0 0602 - F NR_newRAT-Core
=> Remove the change “The IE *Q-OffsetRange* is also used with cell ranking as IE *rangeToBestCell* in case of multi-beam operations as defined in TS 38.304 [20]”
=> Remove “applicable for inter-frequency neighbour cells” in SIB4 description.
=> Remove “or until PLMN selection is performed on request by NAS”
=> Offline discussion on remove “Editor's Note: FFS Confirm the number X of deprioritisation frequencies the UE shall be able to store.”
=> The CR is revised in R2-1818689. (offline#209, Ericsson)

R2-1818689 Miscellaneous corrections related to idle mode SIBs Ericsson CR Rel-15 38.331 15.3.0 0602 1 F NR_newRAT-Core
=> CR is agreed

R2-1817137 Correction to measurement quantity in multi-beam operations Ericsson CR Rel-15 38.304 15.1.0 0086 - F NR_newRAT-Core
=> Not pursued

R2-1817141 Clarification on cell reselection conditions during TreselectionRAT Ericsson CR Rel-15 38.304 15.1.0 0087 - F NR_newRAT-Core
=> Agreed

R2-1818065 Discussion on Ambiguous UE behavior with respect to Cell Ranking Samsung discussion

R2-1818066 Correction to Ambiguous UE behavior with respect to Cell Ranking_Solution 1 Samsung CR Rel-15 38.304 15.1.0 0100 - F NR_newRAT-Core

R2-1818067 Correction to Ambiguous UE behavior with respect to Cell Ranking_Solution 2 Samsung CR Rel-15 38.304 15.1.0 0101 - F NR_newRAT-Core

R2-1817144 Monitoring paging in Camped on Any Cell state Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817145 Correction to monitoring paging in Camped on Any Cell state Ericsson CR Rel-15 38.304 15.1.0 0089 - F NR_newRAT-Core
=> Agreed

R2-1817147 Correction to Q-RxLevMin and Q-QualMin value range Ericsson CR Rel-15 38.331 15.3.0 0604 - F NR_newRAT-Core
CB => Revised in R2-1818690 (Offline#210, Ericsson)
=> Postponed until getting more information from RAN4.

R2-1817149 Correction to P-Max value range for FR2 Ericsson CR Rel-15 38.331 15.3.0 0605 - F NR_newRAT-Core
CB on Friday:=> Postponed
=> offline#277 Ericsson

R2-1817663 Discussion on cell selection in case of state transition from RRC_INACTIVE Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817664 Correction to cell selection in case of state transition from RRC_INACTIVE Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0093 - F NR_newRAT-Core
=> Not pursued.

R2-1817665 Correction to Mobility in RRC_IDLE Huawei, HiSilicon CR Rel-15 38.300 15.3.0 0131 - F NR_newRAT-Core
=> Agreed

R2-1817666 Discussion on cell selection in case of state transition to RRC_INACTIVE Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1817667 Correction to cell selection in case of state transition to RRC_INACTIVE Huawei, HiSilicon CR Rel-15 38.304 15.1.0 0094 - F NR_newRAT-Core

=> Not pursued

R2-1817668 Correction to Mobility in RRC_INACTIVE Huawei, HiSilicon CR Rel-15 38.300 15.3.0 0132 - F NR_newRAT-Core
=> Not pursued

R2-1817671 Consideration on cell access barring alleviation in cell reselection Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
=> Noted

R2-1817673 Add t-ReselectionNR-SF in SIB2 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0682 - F NR_newRAT-Core
=> Agreed

R2-1817674 freqBandIndicatorNR correction in MultiFrequencyBandListNR-SIB Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0683 - F NR_newRAT-Core
=> Agreed

R2-1817675 Corrections to CellSelectionInfo in SIB1 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0684 - F NR_newRAT-Core
CBF: => Revised in R2-1818700 (offline#234, Huawei)

R2-1818043 Correction to offsetToPointA Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0731 - F NR_newRAT-Core
CB on Friday => Revised in R2-1818875 to simplify the description. (Offline#235, Huawei)

R2-1818044 Correction to cell selection parameters Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0732 - F NR_newRAT-Core
CB on Friday:=> Postponed until we get more information from RAN4.

R2-1818045 Correction to p-Max field description Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0733 - F NR_newRAT-Core
=> Not pursued

R2-1817912 Clarification of the values for RangeToBestCell Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0719 - F NR_newRAT-Core Revised

R2-1818501 Clarification of the values for RangeToBestCell Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0719 1 F NR_newRAT-Core R2-1817912 Late
=> Agreed

R2-1818407 Add p-Max for SUL in SIB2 and SIB4 CMCC CR Rel-15 38.331 15.3.0 0458 1 F NR_newRAT-Core R2-1815260 revised to R1818572

R2-1818572 Add p-Max for SUL in SIB2 and SIB4 CMCC CR Rel-15 38.331 15.3.0 0458 2 F NR_newRAT-Core R2-1818407

Others:

R2-1817125 Cell-specific priority based cell re-selection Ericsson discussion Rel-15 NR_newRAT-Core R2-1814510

R2-1817126 Cell-specific priority based cell re-selection Ericsson CR Rel-15 38.304 15.1.0 0058 1 F NR_newRAT-Core R2-1814511

R2-1817127 Cell-specific priority based cell re-selection Ericsson CR Rel-15 38.331 15.3.0 0343 1 F NR_newRAT-Core R2-1814512

R2-1817139 Scaling of cell reselection parameters based on mobility Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817136 Corrections to measurement quantity Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817140 Clarification on cell reselection conditions during TreselectionRAT Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817146 Q-RxLevMin and Q-QualMin value range Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817148 P-Max value range Ericsson discussion Rel-15 NR_newRAT-Core

R2-1816244 Mobility scaling for idle mode measurements Sequans Communications discussion R2-1814767

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R2-1816434 Any cell state from NR to LTE vivo discussion Rel-15 NR_newRAT-Core
Withdrawn

R2-1817124 Handling RAT priorities in low frequency NR deployment scenarios Ericsson discussion
Rel-15 NR_newRAT-Core R2-1814509

R2-1817128 Measurement threshold with different power class Ues Ericsson discussion Rel-
15 NR_newRAT-Core R2-1814520

R2-1817129 Correction for Pcompensation Ericsson CR Rel-15 38.304 15.1.0 0059 1
F NR_newRAT-Core R2-1814521

R2-1817669 Cell reselection with FR1 cells and FR2 cells on the same priority Huawei, HiSilicon
discussion Rel-15 NR_newRAT-Core

R2-1817670 Correction to cell reselection in multi-beam scenario Huawei, HiSilicon CR Rel-
15 38.304 15.1.0 0095 - F NR_newRAT-Core

10.4.5.3 Idle/inactive paging

Corrections to paging

R2-1816286 Clarification of Paging Monitoring Occasion Qualcomm Incorporated CR Rel-15
38.304 15.1.0 0047 3 F NR_newRAT-Core R2-1816005 Revised

R2-1816287 Miscellaneous Corrections in Paging Qualcomm Incorporated CR Rel-15 38.304
15.1.0 0075 - F NR_newRAT-Core Revised

R2-1818508 Miscellaneous Corrections in Paging Qualcomm Incorporated CR Rel-15 38.304
15.1.0 0075 1 F NR_newRAT-Core R2-1816287 Late
=> Agreed

R2-1816318 Correction to Skipping PDCCH monitoring occasions overlapping with UL symbols Samsung
Electronics Co., Ltd CR Rel-15 38.304 15.1.0 0077 - F NR_newRAT-
Core
CB on Friday:=> Postponed until we get more information from RAN1.
=> Revised in R2-1818994

R2-1816320 Correction to description of parameter nAndPagingFrameOffset Samsung Electronics Co., Ltd
CR Rel-15 38.331 15.3.0 0514 - F NR_newRAT-Core
=> Revised in R2-1818876 (Offline#238, Samsung)

R2-1818876 Correction to description of parameter nAndPagingFrameOffset Samsung Electronics Co., Ltd
CR Rel-15 38.331 15.3.0 0514 1 F NR_newRAT-Core
=> Remove the change on change
=> With this change, CR is agreed in R2-1818995

R2-1816321 Correction to description of parameter Ns Samsung Electronics Co., Ltd CR Rel-15
38.331 15.3.0 0515 - F NR_newRAT-Core
=> Agreed

R2-1816451 Correction to configuration of firstPDCCH-MonitoringOccasionOfPO Samsung Electronics
Co., Ltd CR Rel-15 38.331 15.3.0 0524 - F NR_newRAT-Core
CB Friday => Revised in R2-1818996, Offline#299 Samsung

R2-1816526 Correction on PCCH-Config vivo CR Rel-15 38.331 15.3.0 0539 - F
NR_newRAT-Core
=> Only the change of moving "***firstPDCCH-MonitoringOccasionOfPO***" and the second change are agreed
=> With these changes CR is agreed in R2-1818877

R2-1817150 Minor corrections to paging Ericsson CR Rel-15 38.300 15.3.0 0120 -
F NR_newRAT-Core
=> Agreed

R2-1817151 Minor clarifications for paging Ericsson discussion Rel-15 NR_newRAT-Core

R2-1817152 Minor clarifications for paging Ericsson CR Rel-15 38.304 15.1.0 0090 -
F NR_newRAT-Core

=> Only the change of adding the note “NOTE: A PO associated with a PF may start in the PF or after the PF.” . Other changes are not pursued
=> With this change CR is agreed in R2-1818878.

R2-1817695 Correction on firstPDCCH-MonitoringOccasionOfPO Futurewei Technologies CR Rel-15 38.331 15.3.0 0685 - F NR_newRAT-Core
=> Not pursued

R2-1817722 Discussion on PF formula Futurewei Technologies discussion Rel-15

R2-1817732 CR on PF formula Futurewei Technologies CR Rel-15 38.304 15.1.0 0098 - F NR_newRAT-Core
=> postponed

Offline discussion#288 (Huawei)
=> Not pursued

R2-1817735 38.331 CR on derivation of N for paging Futurewei Technologies CR Rel-15 38.331 15.3.0 0693 - F NR_newRAT-Core
=> Already covered by agreed CR.

R2-1817738 38.304 CR on derivation of N for paging Futurewei Technologies CR Rel-15 38.304 15.1.0 0099 - F NR_newRAT-Core
=> Agreed

R2-1817002 Discussion on Paging Monitoring in Camped on Any Cell state Samsung Electronics discussion R2-1815125

R2-1817714 CR on 38.304 corrections Intel Corporation CR Rel-15 38.304 15.1.0 0097 - F NR_newRAT-Core
=> Postpone the second change “1) UE may monitor only Short Message as specified in TS 38.331 [3];” until we got the decision from SA1.
=> Revised in R2-1818683 (Offline#201, Intel)
=> Remove the change of “1) UE may monitor only Short Message as specified in TS 38.331 [3];”
=> With this change, CR is agreed in R2-1818683.

R2-1817159 Paging duration in RAN Ericsson discussion Rel-15 NR_newRAT-Core R2-1814513
=> Noted

R2-1817160 LS on paging duration in RAN Ericsson LS out Rel-15 NR_newRAT-Core R2-1814514 To:RAN3, SA2

R2-1817322 Inactive State issues in NR-U Spreadtrum Communications discussion Rel-16

10.4.5.4 Idle mobility from LTE to NR

Corrections to LTE TS 36.304 on idle mobility from LTE to NR.

10.5 Late Drop

10.5.1 Stage 2 running CR

Including output of email discussion [103bis#09][NR/Late drop] 37.340 CR (ZTE)

R2-1816843 Agreements for MR-DC ZTE Corporation (Rapporteur) CR Rel-15 37.340 15.3.0 0073 3 F NR_newRAT-Core R2-1816017
=> Revised in R2-1819036 to capture the agreements from this meeting (Offline discussion 953)

R2-1819036 Agreements for MR-DC ZTE Corporation (Rapporteur) CR Rel-15 37.340 15.3.0 0073 4 F NR_newRAT-Core

✉ **[104#16][NR] MR-DC stage (ZTE)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

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R2-1816490 37.340 CR on SDAP configuraiton for MR-DC OPPO CR Rel-15 37.340 15.3.0 0056 1 F NR_newRAT-Core R2-1813789
=> Not agreed

R2-1816491 37.340 Text proposal on security for MR-DC OPPO CR Rel-15 37.340 15.3.0 0057 1 F NR_newRAT-Core R2-1813790

10.5.2 38.331 running CR

Including output of email discussion [103bis#10][NR/Late drop] 38.331 CR (Ericsson)
Including confirmation, or otherwise, of the working assumption on use of full RRCReconfiguration message to carry SCG configuration for NR-DC.

R2-1818399 Email discussion summary [104_10] - Late drop 38.331 CR Ericsson discussion Rel-15 NR_newRAT-Core

Agreements
1 The L2 handling options for bearer type change with key change should apply also for NE-DC, NGEN-DC and NR-DC.
2 UE is able to determine upon reception of measurement configuration whether the configuration is for MCG or SCG. FFS: How to capture this in 38.331.
3 ULInformationTransferMR-DC is introduced in 38.331 to carry SCG measurement reports.
4 The FFS in 5.7.3.3 can be removed: Editor's Note: FFS / TODO: Either use this section also for NR-DC or change section title (add "for EN-DC").

R2-1818400 Introduction of late drop NGEN-DC, NE-DC and NR-DC Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core
=> Endorsed as a baseline for further work

10.5.3 36.331 running CR

Including output of email discussion [103bis#11][NR/Late drop] 36.331 CR (Samsung)

R2-1817618 Report of [103bis#11][NR] Late drop 36.331 CR Samsung Telecommunications report Rel-15
=> Noted

R2-1817619 Introducing NR changes for late drop Samsung Telecommunications CR Rel-15 36.331 15.3.0 3771 - B NR_newRAT-Core
=> Endorsed as baseline for further work

R2-1817731 Late drop 36.331 CR - issues remaining from eMail 11 Samsung Telecommunications discussion Rel-15 NR_newRAT-Core Late
P2
- Ericsson prefer to use EN-DC internode message as baseline for NE-DC and they are NR RRC.

Agreements
1: Use SCG-ConfigPartSCG to cover the NE-DC configuration parameters i.e. as follows:
- Re-use existing fields for mobilityControlInfoSCG, RLC bearer (for DRBs), MAC-Main and the physical configuration (SCG cells)
- Introduce extensions for setup/ modification of RLC bearers (for SRB1/ 2), for release of RLC bearers (SRBs and DRBs) and for SN configured measurements
2: Specify inter-node signalling for NE-DC in NR RRC.

✉ **[104#33][NR/Late drop] INMs (Ericsson)**

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Progress the detail of the parameters that would need to be added to the INMs in NR RRC to support MR-DC.
Intended outcome: Report and draft CR to next meeting
Deadline: Monday 2018-02-07

R2-1817728 ASN.1 review of late drop Samsung Telecommunications discussion Rel-15 NR_newRAT-Core Late

10.5.4 Security

Including output of email discussion [103bis#25][NR/Late drop] Remaining security issues for MR-DC (Intel)

R2-1816751 Report of [103bis#25][NR] Remaining security issues for MR-DC Intel Corporation (rapporteur) report Rel-15 NR_newRAT-Core Late

Agreements
1: For MR-DC use the securityConfig in the RadioBearerConfig container for both MN and SN terminated bearers
2: Defer discussion on solutions for LTE or NR only algorithms that are applicable for MR-DC to a later release when the issue is relevant
3 DRB-IP (for PDU sessions where the policy is "preferred") can be reconfigured on PDCP re-establishment (i.e., termination point change, Reconfig with sync).

R2-1816752 Security updates for MR-DC Intel Corporation draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core Late
R2-1816810 Derivation of secondary key in MR-DC (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core
R2-1817789 Clarification on the security for MR-DC under 5GC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1817790 DRAFT reply LS on Dual Connectivity Huawei, HiSilicon LS out Rel-15 NR_newRAT-Core To:SA3
R2-1816421 Enabling and disabling integrity protection on a DRB in MR-DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT R2-1814222
R2-1816487 the security open issues for MR-DC OPPO discussion Rel-15 NR_newRAT-Core R2-1813786
R2-1816504 Enable or disable DRB IP without MAC reset vivo CR Rel-15 38.331 15.3.0 0538 - F NR_newRAT-Core R2-1811978
R2-1816505 Enable or disable DRB IP without MAC reset vivo discussion Rel-15 NR_newRAT-Core R2-1811979
R2-1816844 UP Security indication for split PDU session ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core R2-1814898
R2-1817801 User plane integrity protection check failure handling in SCG for NR-NR DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
R2-1817802 Stage 2 CR UP IP check failure handling in SCG for NR-NR DC Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 B NR_newRAT-Core
R2-1817803 CR on 38.331 to support UP IP check failure report Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core
R2-1816809 [DRAFT] Reply LS to SA3 on LS on Dual Connectivity Ericsson LS out Rel-15 NR_newRAT-Core To:SA3

10.5.5 UE capabilities and capability coordination

Including output of email discussion [103bis#26][NR/Late drop] NE DC capability parameters (Huawei)
Including output of email discussion [103bis#27][NR/Late drop] NR-DC capabilities (Nokia)

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Email discussion on [103bis#26][NR/Late drop] NE DC capability parameters

R2-1818001 Summary of E-mail discussion [103bis#26][NR/Late drop] NE DC capability parameters Huawei, Hisilicon report Rel-15 NR_newRAT-Core

Agreements
1 The parameters included in measAndMobParametersMRDC, measAndMobParametersMRDC-XDD-Diff and measAndMobParametersMRDC-FRX-Diff are reused for NGEN-DC and NE-DC except for sftd-MeasNR-Cell for NE-DC.
1-1 Add clarification in 38.306 sftd-MeasNR-Cell field that this is now only applied to EN-DC and NGEN-DC cases.
2: Reuse Phy-ParametersMRDC for NGEN-DC and NE-DC.
3-1: BandParameters, CA-ParametersEUTRA, CA-ParametersNR and power classes are reused for NGEN-DC and NE-DC.
3-2: FFS for MR-DC parameters and featureset until feedback from RAN1/RAN4.
4: GeneralParametersMRDC-XDD-Diff is in general reused for NGEN-DC and NE-DC except for v2x-EUTRA-v1530, and except for SRB3 for NE-DC
4-1: v2x-EUTRA-v1530 is only applied to EN-DC in Rel-15 and should be clarified in 38.306.
4-2: SRB3 is not applied to NE-DC and should be clarified in 38.306.
5: PDCP-ParametersMRDC is reused for NGEN-DC and NE-DC
6-1: limit the current ims-VoiceOverNR-PDCP-SCG-Bearer and ims-VoiceOverNR-PDCP-MCG-Bearer to EN-DC case only, and add one additional bit for NGEN-DC case for SCG bearer.
6-2: FFS: to introduce VoiceOverSCG-Bearer for NE-DC SCG bearer in either MR-DC capability or NR SA UE capability.
7: NGEN-DC-Add-UE-MRDC-Capabilities and NE-DC-Add-UE-MRDC-Capabilities can be added if RAN1/RAN4 confirms there is a need to differentiate UE capabilities for different options.

=> Send an LS to RAN4 asking whether they will use same BCS for NGEN-DC and NE-DC.

R2-1818273 Draft LS on BCS definition for MR-DC options Huawei, Hisilicon LS out Rel-15 NR_newRAT-Core To:RAN4
=> Modify the LS to ask specifically about the signalling requirements
=> Revised in R2-1819042 (Offline discussion 955)

R2-1819042 Draft LS on BCS definition for MR-DC options Huawei, Hisilicon LS out Rel-15 NR_newRAT-Core To:RAN4
=> Approved in R2-1819106

R2-1818002 Draft CR on supporting NE-DC specific UE capabilities Huawei, Hisilicon draftCR Rel-15 38.306 15.3.0 F NR_newRAT-Core
=> Agreed to be added to the running CR for 38.306

Agreements
1 For cases where we need to refer to both EN-DC and NGEN-DC use the term (NG)EN-DC.

Email discussion on [103bis#27][NR/Late drop] NR-DC capabilities (Nokia)

R2-1817245 Output of email discussion [103bis#27][NR/Late drop] NR-DC capabilities (Nokia) Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT-Core

Agreements
1 SupportedBandCombinationList in UE-NR-Capability is used to indicate whether NR-DC is supported or not for each supported NR CA band combination (i.e. the band combinations applicable for NR-DC are only repeated once i.e. signalled in the NR container in UE-NR-Capability IE and the distinction is made between the two).
2 For BC coordination, the MN can send all allowed NR BCs associated with the NR BCs (selected by the MN) to the SN.

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3 RAN2 confirms the following principle: NR-DC specific capabilities should be defined inside the UE-NR-Capability.
4: Reuse parameters from GeneralParametersMRDC-XDD-Diff, UE-MRDC-CapabilityAddXDD-Mode and UE-MRDC-CapabilityAddFRX-Mode (few exceptions like V2X ones should be removed and reflected in TS 38.306) and add them to UE-NR-Capability.
5: FeatureSetCombination required for NR-DC is already present in the UE-NR-Capability (no new impacts).
6: NR SA PDCP capability parameters to be reused for NR-DC.

R2-1817369 Discussion on UE capability coordination in NR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core
- Nokia prefer to avoid 2 parallel capability mechanisms. Samsung have the same view.
- Ericsson agree to add the MCG config to provide additional information but not an alternative to the existing mechanism.

=> Noted

R2-1817730 NR DC UE capabilities - CA/ DC differences Samsung Telecommunications discussion Rel-15 NR_newRAT-Core

R2-1818302 PDCCH blind decoding capability coordination in NR-DC Samsung Electronics GmbH discussion

R2-1818303 CR on PDCCH blind decoding capability coordination (approach 1) Samsung Electronics GmbH draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1818306 CR on PDCCH blind decoding capability coordination (approach 2-1) Samsung Electronics GmbH draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1816845 FR2 Impacts to power sharing ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1817370 CR on 37.340 for UE capability coordination result in NR-NR DC Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 B NR_newRAT-Core

R2-1817371 CR on 38.331 for UE capability coordination in NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1818404 Capability coordination for NR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818405 Capability coordination for NR-DC Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

Withdrawn

R2-1818304 CR on PDCCH blind decoding capability coordination (approach 1) Samsung Electronics GmbH draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core Withdrawn

R2-1818307 CR on PDCCH blind decoding capability coordination (approach 2-1) Samsung Electronics GmbH draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core Withdrawn

10.5.6 Measurements and measurement coordination

R2-1817589 Measurement identities and reporting in NR-DC Ericsson discussion
- Huawei think the 2 nodes can allocated meas identities independently. Think the MN and SN can configure the full range of identities to the UE and UE has to store them separately. ZTE have the same view as H/w and think in this is the same as EN-DC
- LG have the same view as Huawei and ZTE. Samsung also.
- OPPO wonder what the benefit is to make the meas ID per UE instead of per CG.

Agreements
1 MN and SN can each provide independent measurement configurations (separate measurement ID, meas object IDs, report config ID space for MN and SN)
2 UE sends measurement report to SRB3 if the measurement configuration was received on SRB3 or within he SN container from, otherwise it sends on SRB1.

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R2-1817590 Measurement identities and reporting in NR-DC Ericsson CR Rel-15 38.331 15.3.0 0671 - B NR_newRAT-Core

R2-1818300 Measurement report of SCG serving cells in MR-DC Samsung Electronics GmbH discussion

Agreements
For NE-DC,
1. The UE can report LTE serving cell measurements for reports triggered by Bx events configured by the MN and related to LTE measurements.
2. The LTE serving cell measurements included for reported triggered by Bx events configured by the MN include both PSCell and SCell.
3. UE sends available LTE serving cell measurements in measurement reports triggered by NR A3, 4 and 5 events configured by the MN only . Available measurements are always provided (not configurable)
4. UE sends available LTE best neighbour cell measurements for serving frequencies (in addition to NR best neighbour cell measurements) in measurement reports triggered by NR A3, 4 and 5 events only. (configurable and controlled by the NR configuration for best neighbour reporting).
5. The UE includes ARFCN and PCI of the LTE serving cells to identify the LTE serving cell measurements. SCellIndex is not used for this purpose.

For NR-DC,
1. UE sends available SCG serving cell measurements in MCG measurement reports triggered with A3, 4 and 5 events. Available measurements are always provided (not configurable)
2. UE sends available SCG best neighbour cell measurements in the serving frequencies in MCG measurement reports triggered with NR A3, 4 and 5 events. (configurable and controlled by MCG configuration for best neighbour reporting).
3. The UE includes ARFCN and PCI of the SCG serving cells to identify the SCG serving cell measurements. SCellIndex is not used for this purpose.

R2-1816569 Remaining issues of measurement in NE-DC Qualcomm Incorporated discussion Rel-15 NR_newRAT-Core

Agreements
1 For SFTD measurement for option 4 (NE-DC):
- PCell can configure SFTD to perform on PSCell
- At most one measID can be configured for one-shot SFTD reporting.
- MN can forward SFTD reporting to SN via SCG-ConfigInfo

R2-1816570 Remaining issues of measurement in NR-DC Qualcomm Incorporated discussion Rel-15

Agreements
1 SFTD/SSTD measurement of NR-DC is postponed to Rel16 because only synchronous NR-DC is considered in Rel15 late drop

R2-1817593 SCG measurement results and reporting for MR-DC Ericsson CR Rel-15 38.331 15.3.0 0672 - B NR_newRAT-Core R2-1814676

R2-1817594 SCG measurement results and reporting for NE-DC Ericsson CR Rel-15 36.331 15.3.0 3766 - B NR_newRAT-Core R2-1814677

R2-1817592 SCG measurement results and reporting for MR-DC Ericsson CR Rel-15 37.340 15.3.0 0075 1 B NR_newRAT-Core R2-1814675

R2-1817591 Open issues on SCG measurement results and reporting for MR-DC Ericsson discussion Rel-15 NR_newRAT-Core

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R2-1817028 Serving cell applicabiity for B event on EN-DC NG-EN-DC and NE-DC vivo discussion Rel-15 NR_newRAT-Core

R2-1817365 Discussion of CSI-RS measurement for NR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817366 CR on 38.331 for CSI-RS measurement in NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1817367 CR on 37.340 for measurement result clarification Huawei, HiSilicon draftCR Rel-15 37.340 15.3.0 B NR_newRAT-Core

R2-1817372 Support of measurement reporting of SN serving cell and non-serving cell Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817373 CR on 38.331 Reporting of E-UTRA measurements (serving and best non-serving cell) configured by SN in NE-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1817799 CR on 38.331 for B events in NE-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1817800 CR on 38.331 on measurement Aspects for NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1817804 discussion on the ambiguity issue for CSI-RS measurement results Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817850 CR to 38.331 on ambiguity about SpCell in Event A3 and A5 for NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1818324 Measurement reporting configured by SN in MR-DC LG Electronics Inc. discussion Rel-15 NR_newRAT-Core

R2-1818325 CR to 38331 on Measurement reporting configured by SN in MR-DC LG Electronics Inc. CR Rel-15 38.331 15.3.0 0752 - B NR_newRAT-Core

R2-1818326 CR to 36331 on Measurement reporting configured by SN in NE-DC LG Electronics Inc. CR Rel-15 36.331 15.3.0 3801 - B NR_newRAT-Core

10.5.7 Other aspects common to NG-EN DC, NE-DC and NR-DC

Any stage 2 and stage 3 aspects common to NG-EN DC, NE-DC and NR-DC and not addressed by earlier agenda items

R2-1816275 Bearer Type Negotiation for MR-DC with 5GC CATT discussion Rel-15 37.340 NR_newRAT-Core R2-1813839

R2-1816277 Discussion on LCID as primary path CATT discussion Rel-15 38.331 NR_newRAT-Core

R2-1816278 Draft LS to RAN3 on LCID as primary path CATT LS out Rel-15 NR_newRAT-Core To:RAN3

R2-1816422 QoS Flow Indication in DC Nokia, Nokia Shanghai Bell discussion Rel-15 NR_newRAT

R2-1816423 QoS Flow Indication in DC Nokia, Nokia Shanghai Bell LS out Rel-15 NR_newRAT To:RAN3

R2-1816488 the SDAP supporting for MR-DC OPPO discussion Rel-15 NR_newRAT-Core R2-1813787

R2-1816489 INACTIVE state supporting for MR-DC with 5GC OPPO discussion Rel-15 NR_newRAT-Core R2-1813788

R2-1816799 Discussion on MR-DC release Ericsson discussion Rel-15 NR_newRAT-Core

R2-1816801 Release of secondary cell group in NR-DC and NE-DC (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1816806 Release of bearers at MR-DC during fullConfig (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1816807 Configuration of SCG during RRC Resume in NE-DC and NR-DC (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1816846 Bearer type change for MR-DC with 5GC ZTE Corporation, Sanechips CR Rel-15 37.340 15.3.0 0080 - F NR_newRAT-Core
=> Offline discussion whether to the details
=> Revised in R2-1819039 (Offline discussion 954)

R2-1819039 Bearer type change for MR-DC with 5GC ZTE Corporation, Sanechips CR Rel-15 37.340 15.3.0 0080 1 F NR_newRAT-Core
=> To be considered as part of the email discussion on the MR-DC stage 2 CR

R2-1816847 RAN assisted codec adaptation in MR-DC ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core R2-1814896

R2-1816848 Remaining issues on RRC_INACTIVE for MR-DC ZTE Corporation, Sanechips discussion Rel-15 NR_newRAT-Core

R2-1817027 ANR in later drop vivo discussion Rel-15 NR_newRAT-Core

R2-1817513 QoS Aspects for MR-DC and NR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817514 CR on QoS Aspects for MR-DC and NR-DC Huawei, HiSilicon CR Rel-15 37.340 15.3.0 0083 - F NR_newRAT-Core

R2-1817515 In Order Delivery during QoS Flow Relocation in MR-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817747 Inability to comply with RRCReconfiguration in MR-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1817748 Support for inter-system MR DC HO (37.340) Ericsson draftCR Rel-15 37.340 15.3.0 B NR_newRAT-Core R2-1814670 Revised

R2-1817749 Support for inter-system MR-DC HO Ericsson discussion Rel-15 NR_newRAT-Core R2-1814669 Revised

R2-1817778 Support for inter-system MR DC HO (37.340) Ericsson CR Rel-15 37.340 15.3.0 0087 - B NR_newRAT-Core R2-1817748

R2-1817779 Support for inter-system MR-DC HO Ericsson discussion Rel-15 NR_newRAT-Core R2-1817749

R2-1817798 Handling of SN terminated bearer upon resume procedures Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817991 Discussion on the bearer type negotiation for MR-DC with 5GC Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core R2-1815094

R2-1817992 Discussion on SFTD measurements for late drop Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1817993 Draft CR on supporting SFTD mesurements for NE-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1817994 Discussion on the release and addition for NGEN-DC and NE-DC Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1817995 Draft CR on release and addition for NGEN-DC Huawei, Hisilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

R2-1817996 Draft CR on release and addition for NE-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1817997 Draft CR on release and addition for NE-DC Huawei, Hisilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

R2-1818035 UE overheating support for late drop Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818036 CR on UE overheating support for NGEN-DC Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3786 - F NR_newRAT-Core

R2-1818037 CR on UE overheating support for NE-DC and NR-NR DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1818038 Introduction of IDC mechanism for late drop Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1818272 Draft CR on release and addition for NGEN-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1818298 Management of SN-terminated DRBs Samsung Electronics GmbH discussion R2-1815312

R2-1818321 Discussion on SCG failure Information message in MR-DC Samsung R&D Institute India discussion Rel-15 38.331

R2-1818340 Introduction of SCG Failure information for MR-DC Samsung R&D Institute India draftCR Rel-15 38.331 15.3.0 C NR_newRAT-Core

R2-1818381 On full configuration operation for NG-EN DC and NE-DC SHARP Corporation discussion Rel-15 NR_newRAT-Core

R2-1818397 SCG failure handling in case of MR-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818398 SCG failure handling in case of MR-DC Ericsson CR Rel-15 37.340 15.3.0 0089 - B NR_newRAT-Core

R2-1818401 RRCReconfigurationComplete message in MR-DC Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1818403 Corrections for MR-DC procedures Ericsson CR Rel-15 37.340 15.3.0 0090 - F NR_newRAT-Core

R2-1818414 RRC Re-establishment Enhancement in MR-DC LG Electronics Inc. discussion Rel-15 NR_newRAT-Core R2-1815436

R2-1818465 Layer 2 handling for bearer type change in MR-DC Samsung CR Rel-15 37.340 15.3.0 0091 - F NR_newRAT-Core

R2-1818495 Paging and Mobility for MR-DC with RRC_INACTIVE Qualcomm CDMA Technologies discussion

Withdrawn

R2-1818427 Paging and Mobility for MR-DC with RRC_INACTIVE Qualcomm Incorporated discussion Withdrawn

10.5.8 Other aspects specific to NG-EN DC

Any stage 2 and stage 3 aspects specific to NG-EN-DC and not addressed by earlier agenda items

R2-1817596 Configuration of SCG during RRC Resume in NGEN-DC Ericsson CR Rel-15 36.331 15.3.0 3767 - B NR_newRAT-Core

R2-1817915 Security codepoints for NGEN-DC Ericsson CR Rel-15 38.331 15.3.0 0720 - B NR_newRAT-Core

10.5.9 Other aspects specific to NE-DC

Stage 2 and stage 3 aspects specific to NE-DC and not addressed by earlier agenda items

R2-1816282 Discussion on IEs included in the embedded RRC message CATT discussion Rel-15 38.331 NR_newRAT-Core

R2-1816506 CA duplication on SN terminated MCG bearer vivo discussion Rel-15 NR_newRAT-Core

R2-1816507 CA duplication on SN terminated MCG bearer vivo CR Rel-15 37.340 15.3.0 0078 - F NR_newRAT-Core

R2-1816800 Release of secondary cell group in NE-DC (36.331) Ericsson draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1816802 Configuration of SCG DRBs and split bearers in NE-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1816803 Configuration of SCG DRBs and split DRBs in NE-DC (36.331) Ericsson draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1816804 Configuration of split SRBs in NE-DC (36.331) Ericsson draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1817717 LTE RRC configuration for NE-DC Intel Corporation discussion Rel-15 NR_newRAT-Core

R2-1817791 details on RRC procedures for NE-DC Huawei, HiSilicon discussion Rel-15 NR_newRAT-Core

R2-1817792 CR on RRC procedures for NE-DC Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1817794 CR on 36.331 on SCG failure in NE-DC Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1817795 CR on 38.331 on SCG failure in NE-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1817796 Inter-node messages for NE-DC Huawei, HiSilicon discussion Rel-15

R2-1817797 CR on 36.331 for inter-node messages for NE-DC Huawei, HiSilicon draftCR Rel-15 36.331 15.3.0 B NR_newRAT-Core

R2-1817998 Discussion on support of single UL transmission for NE-DC Huawei, Hisilicon discussion Rel-15 NR_newRAT-Core

R2-1817999 Draft CR on support single UL transmission for NE-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1818000 Draft CR on support single UL transmission for NE-DC Huawei, Hisilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

R2-1818005 Draft CR on support RLC failure report for NE-DC Huawei, Hisilicon draftCR Rel-15 38.331 15.3.0 F NR_newRAT-Core

R2-1818006 Draft CR on support RLC failure report for NE-DC Huawei, Hisilicon draftCR Rel-15 36.331 15.3.0 F NR_newRAT-Core

R2-1818159 B1 and B2 event handling for NE DC Ericsson CR Rel-15 38.331 15.3.0 0738 - B NR_newRAT-Core

R2-1818320 LTE signalling support for bearers in NE-DC Samsung R&D Institute India discussion

R2-1818338 Draft CR on SCG RLC bearer handling in NE-DC Samsung R&D Institute India draftCR Rel-15 36.331 15.3.0 NR_newRAT-Core Late

R2-1818391 Inter-node RRC messages for NE-DC Ericsson discussion Rel-15 NR_newRAT-Core

R2-1818392 Inter-node RRC messages for NE-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

R2-1818394 SCG failure handling in case of NE-DC Ericsson draftCR Rel-15 36.331 15.3.0 NR_newRAT-Core

R2-1818395 SCG failure handling in case of NE-DC Ericsson draftCR Rel-15 38.331 15.3.0 NR_newRAT-Core

10.5.10 Other aspects specific to NR-DC

Stage 2 and stage 3 aspects specific to NR-DC and not addressed by earlier agenda items

R2-1816761 SCG failure reporting of NR configured CSI-RS measurement (for NR-NR DC late drop) Intel Corporation draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1816805 Configuration of split bearers in NR-DC (38.331) Ericsson draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1817368 CR on 38.331 for SCG failure in NR-DC Huawei, HiSilicon draftCR Rel-15 38.331 15.3.0 B NR_newRAT-Core

R2-1818158 A3 and A5 event handling for NR DC Ericsson CR Rel-15 38.331 15.3.0 0737 - B NR_newRAT-Core

R2-1818160 On timing reference for SMTC configuration in NR DC Ericsson CR Rel-15 38.331 15.3.0 0739 - B NR_newRAT-Core

R2-1818301 QoS flow handling in NR-DC Samsung Electronics GmbH discussion R2-1815319

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R2-1818393	Inter-node RRC messages for MR-DC - B NR_newRAT-Core	Ericsson	CR	Rel-15	37.340	15.3.0	0088
R2-1818396	SCG failure handling in case of NR-DC NR_newRAT-Core	Ericsson	draftCR	Rel-15	38.331	15.3.0	

11 Rel-16 NR Work Items

11.1 Study on Integrated Access and Backhaul for NR

(FS_NR_IAB; leading WG: RAN2; REL-16; started: Mar. 17; target: Dec. 18: SID: RP-181349)
Time budget: 2 TU
Documents in this agenda item will be handled in a break out session

11.1.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

Closing of the SI

⇒ **From RAN2 point of view the SI can be closed**

LS in

R2-1818931 Reply on LS on IAB security (S3-183711; contact: Ericsson) SA3 LSin

- Chair wonders if answer to Q1 means that we can have an option where security is not there. Ericsson think it must be there but up to the operator if to turn it on. Intel think it is unclear what “other means” means. LG agrees it is vague. QC think this means that the operator can choose whatever method.
- Chair: this seems like a quite positive reply. If we receive more input from SA3 in the WI we can act then, but see no reason to change anything based on the SA3 reply. Samsung and AT&T support this view.
- Nokia think that in the TR it would be sufficient to say that security is required.

⇒ **Noted**

TS

R2-1816872 TR 38.874 v060 Qualcomm Inc. (Rapporteur) draft TR Rel-15 38.874 0.6.0 FS_NR_IAB
=> Revised in R2-1818534

R2-1818534 TR 38.874 v061 Qualcomm Inc. (Rapporteur) draft TR Rel-15 38.874 0.6.1 FS_NR_IAB
=> Revised in R2-1818568

R2-1818568 TR 38.874 v062 Qualcomm Inc. (Rapporteur) draft TR Rel-15 38.874 0.6.2 FS_NR_IAB R2-1818534

- The TR was updated with some TPs.

⇒ **Endorsed**

✉ **[104#26][IAB] TR 38.874 (Qualcomm)**
Intended outcome: Agreed TR. Inclusion of all agreed TPs. Email discussion for checking details such as editorials. Joint R1 R2 R3 Email discussion
Deadline: Monday 2018-11-26

Offline (106), Capture agreements that do not have their own TPs, TP in R2-1818747 (QC)

R2-1818747 IAB agreements without TP Qualcomm Inc. Discussion

- Nokia wonders if we need the list, as some of these aspects were not looked at by RAN2.
- Samsung think we should mention both RAN1 and RAN3 in the editors note, and we should put the non-RAN2-items within square brackets, to be removed by R1 and R3 ..

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⇒ **Put the following items within sq brackets (to be confirmed/removed by R1 and R3): In-band and out-of-band scenarios, SA and NSA mode for the UE and for the IAB-node, Operation with EPC and NGC, Network synchronization of IAB-nodes.**

⇒ **Add RAN1 in the editors note.**

⇒ **Revised in R2-1818762, which is agreed unseen.**

R2-1816881 Text proposal for FFS resolution KDDI Corporation discussion

- KDDI indicate that there are opinions on L2 L3 relaying, point 1.
- LG think we should discuss based on contributions.
- Chair think that the removal of FFS doesn't mean that we close the discussion and cannot discuss in the WI. It is mainly a "cosmetical" change.
- Huawei wonders if 1 is really in the scope of R2 or R3. QC think R2 added this.
- Huawei think that it need to be updated to be based on 0.6.2 instead of 0.4.0.
- Offline (100), to resolve the green marked RAN2 items, (and others not treated), revision in R2-1818741 (KDDI)

R2-1818741 Text proposal for FFS resolution KDDI Corporation discussion

- On point 10 LG wonders if we can only modify BSR then in the WI. Chair think it is open and we can consider other changes as well, e.g. SR triggering etc.
- Huawei think point 26 should be RAN3.

⇒ **Change point 26 to be RAN3**

⇒ **Change point 10 to "Enhancements to BSR reporting may be required"**

⇒ **Revised in R2-1818763, which is agreed unseen (i.e. RAN2 agrees to the points marked RAN2)**

11.1.2 User plane aspects

Including consideration of adaptation layer, multi-hop RLC ARQ, scheduler and QoS impacts
Including output of email discussion [103bis#30][NR - IAB] Adaptation layer non-IP or IP (Ericsson)
Including output of email discussion [103bis#31][NR - IAB] Adaptation layer in MT (Qualcomm)
Including output of email discussion [103bis#32][NR - IAB] Unified design (Qualcomm)

General Arch

R2-1818099 pCR IAB_Arch_recommnedation(1a,1b and 2a) KDDI Corporation discussion

R2-1816565 Way forward on CU-DU separation Ericsson, AT&T, KDDI discussion Rel-15 FS_NR_IAB

R2-1817349 Downselection consideration on IAB architecture group 1 ZTE Corporation discussion

R2-1818544 IAB QoS implementation options and roadmap Telstra Corporation Limited discussion

Bearer Mapping

R2-1816874 Email discussion [103bis#32][NR - IAB] Unified Design Qualcomm Inc. (Rapporteur) report Rel-15

- Chair think that 1 is equivalent to "Adapt above RLC", and 2 is equivalent to "adapt above MAC".

⇒ **TP is agreed.**

R2-1817769 Comparison of Consolidated Unified Design Examples for Architecture 1a AT&T discussion

- Intel and LG think LCID extension need further discussion.
- LG think that 1:1 mapping can be supported by the solution which is ok, about the actual extension is maybe not needed in this release.
- LG want to confirm that UEs don't need to implement LCID extension. Several companies confirms that this is the case.

Show of hands:

1: 15
2: 4

⇒ **We go for the consolidated example 1, "adapt above RLC" + "LCID ext"**

⇒ **We keep LCID extension in the solution description, as this is a method to achieve 1:1 mapping**

⇒ **Confirm that UE is not expected to need to implement the LCID extension.**

R2-1817341 TP for TR 38.874 on bearer mapping for the unified design Samsung R&D Institute UK discussion
- LG has some comments on LCH.
- Ericsson think that for SRB we should not have the 1:1 mapping.

Offline (103), revision in R2-1818744 (Samsung).
- Samsung reports that the offline was not successful

⇒ **Revision is cancelled.**

⇒ **Noted**

R2-1817344 Bearer mapping for the unified design Samsung R&D Institute UK discussion
R2-1817413 Discussion on user plane many-to-one bearer mapping ZTE Corporation discussion
R2-1817394 Consideration on IAB unified design ZTE Corporation discussion
R2-1816885 Unified design and QoS Handling for IAB CATT discussion
R2-1818374 Unified design for IAB Futurewei Technologies discussion
R2-1816299 Unified design for IAB CP and UP Samsung discussion Rel-16 FS_NR_IAB

ARQ and Reliability

R2-1817916 Way Forward on RLC termination Ericsson, AT&T, KDDI, CATT, LG, Intel, Lenovo, Motorola Mobility, Kyocera, ZTE, Sony, Verizon discussion Rel-15 FS_NR_IAB
- Nokia think that e2e ARQ could be between IAB nodes.
- Samsung think that for 1:1 mapping, this is for free. Huawei agrees. AT&T disagrees that this is for free. Ericsson too.

Show of hands:
1 Only Hop-by-hop 15
2 Stick with agreement from last meeting 4

⇒ **Only Hop-by-hop ARQ in Rel-16**

R2-1816887 RLC ARQ comparison for IAB CATT discussion
R2-1817421 Solutions for reliable IAB end-to-end transmission for the hop-by-hop RLC ARQ case Samsung R&D Institute UK discussion
R2-1818105 Flexible hop-by-hop RLC ARQ LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1815132
R2-1817814 Discussion on reassembly function for architecture 1a Futurewei Technologies discussion R2-1815547
R2-1818286 Way forward on ARQ mode Futurewei Technologies discussion
R2-1818062 Consideration on SN length for multi-hop RLC ARQ LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1815176

Adaptation Layer Placement

R2-1817830 Way Forward on Adaptation Layer Placement for IAB Network Ericsson, AT&T, KDDI, CATT, LG, Intel, Lenovo, Motorola Mobility, Kyocera, ZTE, Sony, Verizon discussion Rel-15

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R2-1818371 Adapt function for unified design Futurewei Technologies discussion

gNB transport - General

R2-1816560 Summary of email discussion [103bis_30][NR-IAB] Adaptation layer non-IP or IP discussion Rel-15 FS_NR_IAB Late Ericsson

R2-1818834 Operators' joint proposal on IP termination for the IAB architecture KDDI, AT&T, NTT DOCOMO, Softbank discussion Rel-16 FS_NR_IAB Late

- KDDI indicate that this proposal is intended for both CP and UP.
- LG wonder if we need to discuss the security issue.
- Sequans wonders if this is the access IAB node.
- Intel wonders about the overhead. AT&T think that for non-mobile IAB nodes there is no problem because the backhaul link need to be good.
- Samsung wonders what the second sentence means. Chair proposes to not attempt to agree the second part.
- Nokia would like to keep the option of PDCP security. KDDI think that the main part of the proposal is IP, and had assumed IP security solution, but could consider other if needed. AT&T would like to go with NDS for the IP solution. Verizon also support AT&T.
- Huawei would like to not make any decisions as they are in scope of other groups.

⇒ **The Rel.16 IAB WI focuses on only "IP termination at Access IAB node"**

R2-1817273 Further discussion on unified design Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

- Chair suggest to only discuss P1 and P2
- ZTE think that if GTP is used and IPSEC encrypts the GTP header flow control cannot be used. Huawei still think end-to-end flow control can make use of GTP.
- Nokia think that maybe P2 will not fly as GTP then will be encrypted.
- AT&T think that with the IP solution, there will for sure be GTP on top.

⇒ **Confirm that GTP-U is included in the UP stack for F1-U**

R2-1817809 Harmonizing UP alternatives for architecture group 1a discussion Rel-15 FS_NR_IAB Ericsson, AT&T, KDDI, KT

gNB transport - CP

R2-1818317 Comparisons of C-plane alternatives Huawei Technologies France discussion R2-1815551

R2-1816563 Mapping of CP data over backhaul links Ericsson discussion Rel-15 FS_NR_IAB

R2-1816566 Considerations on SCTP overhead Ericsson discussion Rel-15 FS_NR_IAB

R2-1818277 SRB Types for Control Plane Alternative 2 Huawei Technologies France discussion R2-1815544

gNB transport – Security

R2-1818516 Securing F1-U in IAB arch 1a Qualcomm Inc. (Rapporteur) discussion
=> Revised in R2-1818569

R2-1818569 Securing F1-U in IAB arch 1a Qualcomm Inc. (Rapporteur) discussion

- Huawei wonders if the protocol figure with IPSEC is correct.
- QC clarifies that the conclusion is that whatever SA3 requires, it can likely be met by both IP and non-IP solution.
- Huawei wonders if these are the only options. Is GTP the only option? Chair think that the intention is not to show GTP but mainly the security solutions. Ericsson think this is generic.

⇒ **Will have a TP**

Offline (101), final TP (QC), revision in R2-1818742

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R2-1818742 Securing F1-U in IAB arch 1a Qualcomm Inc. (Rapporteur)

⇒ **TP is agreed**

R2-1817420 Control plane signaling delivery in NSA deployment ZTE Corporation discussion

R2-1817917 Using NDS for IAB_NB Ericsson discussion Rel-15 FS_NR_IAB

R2-1818836 DRAFT LS on IAB security Ericsson LS out to: SA3

- LG wonders what is routing. QC and Ericsson think this is explaines in the beginning paragraphs.
- Samsung have comments but they are editorial.
- Ericsson want to send the LS today. Huawei want some changes.

⇒ **Revised**

Offline (102), revision in R2-1818743 (Ericsson)

R2-1818743 DRAFT LS on IAB security Ericsson LS out to: SA3

- Treated in main session

⇒ **Revised to R2-1818862**

R2-1818862 DRAFT LS on IAB security Ericsson LS out to: SA3

- Nokia want to know how we will act if SA3 think we cannot use NDS over wireless.
- Chair suggest that we act when the reply is available.
- Nokia think we should clarify the non-IP figures in the LS. Nokia are ok with the question.
- Samsung don't understand what is Nokia's concern, and think we could add a note that the figures are informative. Ericsson think it is clear in the LS that the figures are just examples.
- Chair think that if SA3 says no to one protocol architecture example it doesn't mean that we select a solution with all the details of the other example.

⇒ **Release should be Rel-16**

⇒ **LS is approved, final version in R2-1818748**

Adaptation layer in MT

R2-1816873 Email discussion [103bis#31][NR - IAB] Adaptation layer in MT Qualcomm Inc. (Rapporteur) report Rel-15

- Samsung wonders if we shall take a closer look at this in the light of decisions taken today.

⇒ **TP is agreed**

Flow Control and congestion handling

R2-1816298 Overview of flow control solutions for architecture 1 and 2 Samsung discussion Rel-15 FS_NR_IAB R2-1814593

R2-1816558 End to end flow control for IAB networks Ericsson discussion Rel-15 FS_NR_IAB

R2-1816559 Hop by hop flow control for IAB networks Ericsson discussion Rel-15 FS_NR_IAB

R2-1816710 E2E flow control based on ARQ mechanism PANASONIC R&D Center Germany discussion R2-1814378

R2-1816888 Consideration of flow control CATT discussion

R2-1817337 Queue Management vs Flow Control for Congestion Handling Sequans Communications discussion Rel-16 FS_NR_IAB R2-1815083

R2-1817409 Discussion on flow control in IAB ZTE Corporation discussion

R2-1817697 Downlink Flow Control and Congestion Control for IAB Intel Corporation discussion Rel-15 FS_NR_IAB

R2-1817698 Uplink Flow Control and Congestion Control for IAB Intel Corporation, Convida discussion Rel-15 FS_NR_IAB

R2-1818059 Further consideration on uplink data congestion handling LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1815172

R2-1818060 Further consideration on downlink data congestion handling LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1815173

R2-1818071 Some considerations about flow control for IAB networks Huawei Technologies France discussion R2-1815513

R2-1818166 Some considerations about congestion handling for IAB networks Huawei Technologies France discussion R2-1815509

R2-1818209 Discussion on flow control ITL discussion

Scheduling etc

R2-1816575 Scheduling in IAB networks Ericsson discussion Rel-15 FS_NR_IAB

R2-1817072 Resource allocation in IAB Sony discussion Rel-16 FS_NR_IAB R2-1811417

R2-1816576 User plane latency in IAB networks Ericsson discussion Rel-15 FS_NR_IAB

R2-1817700 Uplink Latency in IAB networks Intel Corporation discussion Rel-15 FS_NR_IAB

R2-1817617 Resource allocation and coordination for IAB Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

UE user plane

R2-1816577 PDCP Design Aspects for hop-by-hop Ericsson discussion Rel-15 FS_NR_IAB

R2-1816578 RLC UM design aspects Ericsson discussion Rel-15 FS_NR_IAB

R2-1818061 Consideration on disorder of data arriving at the PDCP layer in IAB LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1815174

Other

R2-1816508 Duplication support in IAB vivo discussion Rel-15 FS_NR_IAB

Not available:

R2-1817939 LTE Access Impact on UP architectures Sequans Communications discussion Rel-16 FS_NR_IAB R2-1815081 Late

R2-1818386 Comparison of IP vs non-IP routing for Arch 1a Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB Late

11.1.3 Control plane aspects

Including consideration of control plane protocol stack and control plane procedures (e.g. topology management, route management, etc)

Configuration

R2-1817411 Discussion on backhaul bearer setup in IAB network ZTE Corporation discussion

- ZTE think that the description in the TR is not sufficient. We should describe more details.
- Ericsson think that the adaptation layer need to be configured before the DU part.

⇒ **Confirm that at setup of backhaul bearer, the bearer is setup by RRC and QoS info is provided by the associated F1-AP signalling, i.e. we reuse current CP.**

R2-1817931 QoS parameters for IAB QoS handling Huawei Technologies France discussion R2-1815518

- Nokia think that this should be captured.
- ZTE think we don't need to inform the intermediate nodes the GFBR.

Offline (104), TP on QoS parameters and signaling for backhaul bearer setup based on TPs in above two docs, Revision in R2-1818745 (Huawei)

R2-1818745 TP on QoS parameters and backhaul bearer setup Huawei Technologies France discussion

- ZTE think that we may need a definition if to use "RLC bearer" as we used "RLC channel". Ericsson agrees we used "RLC channel". Ericsson also think that the figure only applies to 1:1 bearer mapping. Huawei think it is clear that this is only an example.
- LG wonders about ARP and admission control. Is this done only in donor or in all nodes? Huawei think we don't normally specify which node performs admission control, and this is a R3 topic.

⇒ **For ARP, change the last column to "Yes"**

⇒ **Add "NOTE: with N:1 bearer mapping, UE bearers and backhaul bearers may not be set up or modified at the same time"**

⇒ **Change to "RLC channel" everywhere**

Offline (104), Review the detailed text further, revision in R2-1818764 (Huawei)

R2-1818764 TP on QoS parameters and backhaul bearer setup Huawei Technologies France discussion

⇒ **Change "maps to" to "corresponds to", remove and "and", remove in the table the "congestion control"**

⇒ **Revision in R2-1818790, which is agreed unseen.**

R2-1816580 Setup Procedure for the Adaptation Layer of an IAB Network Ericsson discussion Rel-15 FS_NR_IAB

- QC think that the adaptation layer is in fact "routing functionality" and it is described in the TR how this is configured.
- Huawei think we don't capture anything now.

⇒ **Noted.**

R2-1817419 Consideration on Routing in IAB ZTE Corporation discussion

R2-1817906 IAB bearer mapping decisions Huawei Technologies France discussion Rel-15 R2-1815520

Selection etc

R2-1818292 Discussion on cell reselection of IAB nodes LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1815449

⇒ **Noted**

R2-1817418 Discussion on IAB node discovery and selection ZTE Corporation discussion

DISC on the two papers above

- AT&T think this has been discussed in R1 and R3.
- Samsung think that Idle and Inactive is not a main case and it would be good to not do so much.
- QC think that no mobility control is needed in Idle. All control will be in connected.
- Ericsson think this doesn't need to be optimized.
- Sony have some sympathy for this.
- Huawei think this is not important

⇒ **Noted**

R2-1816509 Selection of Parent for IAB-Node vivo discussion Rel-15 FS_NR_IAB R2-1811779

R2-1816561 IAB node selection and reselection in RRC_IDLE Ericsson discussion Rel-15 FS_NR_IAB

R2-1817169 Parent node selection for IAB access Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IAB R2-1814819

R2-1817543 Which cell/IAB node support child IAB access Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IAB R2-1814483

R2-1817616 Discovery and measurements for IAB Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

Topology

R2-1818377 IAB routing and topology management for Architecture 1a Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

R2-1816562 IAB node relocation Ericsson discussion Rel-15 FS_NR_IAB

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R2-1817271 Topology Management for Spanning Tree topologies Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB

R2-1817520 Topology in IAB system Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IAB

R2-1817775 Route selection method for architecture 1a Huawei Technologies France discussion Rel-15 R2-1815506

R2-1817990 Service Interruption Minimization during Topology Adaptation ITRI discussion Rel-15 FS_NR_IAB R2-1815112

R2-1817073 Route management in IAB Sony discussion Rel-16 FS_NR_IAB R2-1811418

RLF Handling

R2-1817699 Route Adaptation Upon Backhaul Failure Intel Corporation discussion Rel-15 FS_NR_IAB

DISCUSSION

- AT&T think RAN1 has already decided this.
- QC think that we need to propagate the RLF/broken link information up- and Downstream.
- Nokia think that sequence approach is maybe not needed.
- KDDI wonders what is advance preparation, does it include measurement? Preparation of DC nodes etc. Intel confirms.
- LG think that the single conn case need first to be addressed.
- AT&T think R1 is enhancing RLF.
- Intel think we can conclude something, e.g. describe the problem. Nokia agrees, and think we haven't captured anything.
- QC think that R3 has captured everything on RLF and RLF recovery.
- Huawei and Nokia think this is complementary.

Offline (105), figure out what/if anything need to be captured, Revision in R2-1818746 (Intel)

R2-1818746 Route Adaptation Upon Backhaul Failure Intel Corporation discussion Rel-15 FS_NR_IAB

- Ericsson wonders how hierarchical recovery would work, and what is the "upstream"
- Nokia think we should remove "for some cases" and "in some cases" words.

⇒ **Remove bullets 2 and 4**

Offline (105), address the comment above on "for some cases" etc, revision in R2-1818765 (Intel)

R2-1818765 Route Adaptation Upon Backhaul Failure Intel Corporation discussion Rel-15 FS_NR_IAB

⇒ **Agreed**

R2-1817716 Text proposal for Route Adaptation Upon Backhaul Failure Intel Corporation discussion Rel-15 FS_NR_IAB

R2-1816579 Suspension of Transmission upon Failure of Backhaul links Ericsson discussion Rel-15 FS_NR_IAB

R2-1817170 RLF in backhaul link Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IAB R2-1814501

R2-1817573 Consideration of RLF recovery in IAB Kyocera discussion

R2-1818367 Handling of the RLF on wireless backhaul link LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1812820

R2-1818231 Consideration on backhaul link enhancement for IAB LG Electronics France discussion Rel-16 FS_NR_IAB R2-1815366

IAB without CN

R2-1816564 Minimumizing CN functionalities for IAB network Ericsson discussion Rel-15 FS_NR_IAB

Network slicing

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R2-1816567 Network slicing in IAB networks Ericsson discussion Rel-15 FS_NR_IAB

NSA

R2-1817836 CP signalling transmission in IAB NSA Futurewei Technologies discussion

Start

R2-1817074 Open issues related to IAB power on procedure Sony discussion Rel-16 FS_NR_IAB R2-1811419

Other

R2-1818336 Support of Multiple connectivity for IAB nodes Futurewei Technologies discussion R2-1815532

R2-1818415 Access Control for IAB node LG Electronics Inc. discussion Rel-16 FS_NR_IAB R2-1815437

11.1.4 Other

R2-1817903 Support of LTE Access over NR backhaul in Architecture 1a Futurewei Technologies discussion

R2-1818388 Overview of changes required for Arch1a to support non 3GPP access and LTE Access Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IAB Late

11.2 Study on NR-based Access to Unlicensed Spectrum

(FS_NR_unlic; leading WG: RAN1; REL-16; started: Mar. 17; target: Jun. 18: SID RP-181339)
Time budget: 1 TU
Documents in this agenda item will be handled in a break out session

LS in

R2-1816214 LS on wideband carrier operation for NR-U (R1-1812026; contact: Ericsson) RAN1 LS in Rel-16 FS_NR_unlic To:RAN2, RAN4

- Oppo think there are two modes of operation, single and multiple BWP. Oppo wonders if we will consider multiple BWP.
- Ericsson think R2 can evaluate the alternatives
- Mediatek think we should wait for further progress in R1.
- LG think R2 can discuss the options.
- QC think R2 can wait.

⇒ **Noted**

R2-1816232 Reply LS on requesting study of system level aspects of NR-U (S2-1811023; contact: Nokia) SA2 LS in FS_Vertical_LAN, FS_NR_unlic To:RAN2 Cc:RAN1, RAN3, RAN, SA

- Vivo wonders what is the impact of non-public in R2.
- Nokia think that if SA2 work results in R2 impact it might be handled in a general WI in R2.

⇒ **Noted**

System Level Aspects

R2-1818491 TP for System Level Aspects of NR-U Qualcomm Incorporated discussion

- Mediatek wonders if there really is not an impact.

⇒ **Agreed**

TR

R2-1818766 TP for RAN2#104 CP agreements and Conclusion Qualcomm

- Ericsson didn't have time to check, but would like to remove the part on gNB scanning as the only solution for PCI collision.

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⇒ **Revert the text to indicate that gNB scanning is just a solution for PCI collision.**

⇒ **Add remaining agreements (from today)**

Offline (129), revision in R2-1818784 (QC)

R2-1818784 TP for RAN2#104 CP agreements and Conclusion Qualcomm

- Vivo think that NR-U NR-U DC should be mentioned in conclusions. Intel think that R1 hasn't agreed to any DC scenario where NR-U is MN. Ericsson think this is indeed agreed in R1 to be included and is in the TP from R1. Intel think that we can just say it is not precluded.
- Chair wonders if we should state something separately on LAA vs SA.
- Oppo think we should not say that 2-step RACH resolved contention resolution in the 2'nd step. Chair suggest that we keep the text and observes that we can decide later if there are more than one transmission per step. IDT think we don't need to change anything.
- LG think we should describe 2-step RACH without LBT as 2-step RACH is general

⇒ **Revised in R2-1818785**

⇒ **Add "NOTE: 2-Step RACH if applied to licensed operation would not take into account LBT", in the final version of the TR.**

⇒ **Removed "(with LTE or NR licensed as MN and gNB using NR-U as SN)", in the final version of the TR.**

⇒ **In the first addition, add a "for", in the final version of the TR.**

R2-1818785 TP for RAN2#104 CP agreements and Conclusion Qualcomm

⇒ **Agreed**

Closing of the SI

⇒ **From RAN2 point of view the SI can be closed.**

11.2.1 User plane

11.2.1.2 MAC

MAC impacts other than RACH

General

R2-1818216 Transmission counting in MAC with LBT LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1815194

SR

R2-1816775 Text Proposal for Scheduling Request in NR-U InterDigital, Qualcomm, Panasonic, ZTE, Charter Communications Inc. discussion Rel-16 FS_NR_unlic

⇒ **Noted**

R2-1817974 Scheduling request for NR-U Ericsson discussion FS_NR_unlic

⇒ **Noted**

DISCUSSION on the two docs above

- Vivo think that SR prohimit timer shold be started but the stopped of LBT fails, as otherwise multiple SRs will be generated.
- LG think SR prohibit timer should be started.
- Nokia think that multiple PUCCH Scell is a R1 issue. Ericsson thikn R2 can recognize that there are benefits.

⇒ **If SR is not transmitted due to LBT failure, the UE should not be prohibited from trying again by the prohibit timer.**

R2-1816260 SR transmission and procedure for NR-U and corresponding TP OPPO discussion R2-1813585
R2-1817095 Discussion on SR transmission for NR-U Google Inc. discussion Rel-16 FS_NR_unlic R2-1815412
R2-1816708 Scheduling Request enhancement for NR-U Intel Corporation discussion Rel-16 FS_NR_unlic
R2-1816686 LBT impact on SR transmissions MediaTek Inc. discussion Rel-16 FS_NR_unlic
R2-1816833 Consideration on SR enhancement for NR-U ZTE Corporation discussion
R2-1818261 Discussion on SR procedure vivo discussion R2-1814264
R2-1816603 Discussion on SR for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic

Usage of COT

R2-1817182 SR in NR-U PANASONIC R&D Center Germany discussion R2-1814331
R2-1818266 Ignored LBT impacts on the MAC vivo discussion

CG

R2-1818232 Autonomous uplink transmission for NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1815284
R2-1816601 Transmission with configured grant for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1818223 HARQ process ID selection for NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic
R2-1816683 Multiple configured grants for NR-U MediaTek Inc. discussion Rel-16 FS_NR_unlic R2-1813966
R2-1816707 Configured Grant enhancement for NR-U Intel Corporation discussion Rel-16 FS_NR_unlic R2-1814059
R2-1816830 Considerations on configured grant ZTE Corporation discussion
R2-1817320 Autonomous Uplink Transmission in NR-U Spreadtrum Communications discussion Rel-16 R2-1813875
R2-1817972 On Autonomous UL Transmissions for NR-U Ericsson discussion FS_NR_unlic
R2-1818262 Discussion on the configurations of configured grant vivo discussion R2-1814265
R2-1817964 Coexistence Between Configured and Dynamically Scheduled UL Grants Ericsson discussion FS_NR_unlic

BWP

R2-1816598 Discussion on wideband operation for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic

Moved from 11.2.1.3:

R2-1817975 Discussions on wideband operation and bandwidth part Ericsson discussion FS_NR_unlic
R2-1817970 MAC Impact with Multiple Active BWPs Ericsson discussion FS_NR_unlic
R2-1818265 Discussion on the support of multiple active BWP vivo discussion R2-1814271
Proposal 1: We prefer multiple BWPs activated, multiple LBT and transmission of PDSCH on single BWP.

Moved from 11.2.1.3:

R2-1818068 Discussion on multiple active BWP support in NR-U Samsung discussion
R2-1816828 considerations on BWP for NR-U ZTE Corporation discussion
R2-1818129 Considerations on BWP switching and multi-activation for NR-U CMCC agenda R2-1815251

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R2-1818161 Considerations on BWP operation for NR-U LG Electronics Inc. discussion FS_NR_unlic R2-1815150
R2-1818220 BWP selection based on HARQ process ID in NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1815309
R2-1816265 BWP switching due to LBT OPPO discussion Late

Enhanced dynamic scheduling

R2-1818136 UL Scheduling with Multiple TTIs for PUSCH in NR-U CMCC discussion R2-1815273
R2-1818106 UL scheduling enhancement in NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1815133

Other

R2-1818268 Wake-UP-Signal and LBT vivo discussion
R2-1818142 Considerations on channel busy level in NR-U LG Electronics Inc. discussion FS_NR_unlic
R2-1817963 BSR/PHR report for NR-U Ericsson discussion FS_NR_unlic
R2-1816602 Discussion on HARQ and PHR for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic

Beam Failure

R2-1818157 Considerations on Beam Failure Detection for NR-U LG Electronics Inc. discussion FS_NR_unlic R2-1815147
R2-1818267 LBT impacts on BFD in NR-U vivo discussion

DRX

R2-1816266 DRX operation for NR-U OPPO discussion
R2-1816599 Discussion on DRX for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816780 TP on DRX for NR-U InterDigital discussion Rel-16 FS_NR_unlic
R2-1817103 DRX for NR-U Samsung discussion Rel-15 FS_NR_unlic R2-1813641
R2-1817181 DRX Procedure for NR-U PANASONIC R&D Center Germany discussion R2-1811920
R2-1817190 Discussion on DRX for NR-U Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic R2-1814290
R2-1817967 DRX enhancement for NR-U Ericsson discussion FS_NR_unlic
R2-1818264 Discussion on single or muliple DRX configurations for NR-U vivo discussion R2-1814270

Moved from 11.2.1.1

R2-1818355 DRX for unlicensed operation LG Electronics Inc. discussion FS_NR_unlic

11.2.1.1 RACH

Including RACH 4-step, RACH 2-step

RACH - General

R2-1816618 Impact of LBT on counters and windows for 4-step RACH Huawei, HiSilicon discussion Rel-15 FS_NR_unlic

DISCUSSION

- LG think that MAC can be transparent wrt LBT outcome.

P1:

- Oppo think raresponsewin has already been agreed, but support for contention res timer
- LG support P1, and think we expect impact to RA-RNTI calculation. QC think that if we stay < 20ms we might not need to change.
- Fujitsu think the current range is enough. Huawei think the current value

P2

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- Lenovo++ support this

P3
- Intel support this. LG support this.
- Oppo think this is not so clear. What about the initial transmission.
- Mediatek think this should be related to actual transmission of MSG3. Convida agrees.

P4
- Oppo think we need a counter for systematic failures. Ericsson agrees.
- Huawei wonders what are the systematic failures, and think the reasons may be different.

Chair: there seems to be two options:
- Counter works as today (not taking into account LBT)
- Counter only counts actual transmissions + we introduce another counter to count RACH LBT failures, and can trigger RACH failure.

⇒ **RAN2 assumes that *ra-ContentionResolutionTimer* may need to be extended to overcome the LBT impact in NR-U. Detailed value should be studied during the WI.**

⇒ ***ra-ResponseWindow* is not started when the preamble is not transmitted due to LBT failure.**

R2-1816261 Enhancements of 4-steps RACH in NR-U OPPO discussion

DISCUSSION

P1:
- IDT, Fujitsu, LG support this.
- Sony would like to keep the option of multiple parallel RACH procedures.

P2/3:
- LG think this impacts the RAR format, and LG don't think this is a good ideas.
- Lenovo think there could also be multiple RAR messages.
- Samsung think that for FDD we anyway have this possibility.
- Intel support 2/3.
- SoH: Yes: 13 No: 3
- Nokia think we need to understand how it works.
- Vivo think the text gets wrong when we consider beam sweeping.

⇒ **For NR-U, the MAC entity does not support multiple RACH procedure in parallel as the current NR**

⇒ **For NR-U, RACH can be enhanced by additional opportunities. The additional opportunities should apply to msg1 and msg3.**

R2-1816696 Random Access procedure in NR-u Intel Corporation discussion Rel-16 FS_NR_unlic R2-1813987

R2-1816312 Random Access Response Reception in NR-U Samsung Electronics Co., Ltd discussion Rel-16 FS_NR_unlic

R2-1818356 Fast preamble transmission in NR-U LG Electronics Inc. discussion FS_NR_unlic

R2-1816776 Random Access for NR-U InterDigital discussion Rel-16 FS_NR_unlic

R2-1817966 Discussions on RACH enhancements for NR-U Ericsson discussion FS_NR_unlic

R2-1817758 Further details on RACH for NR-U Qualcomm Incorporated discussion Revised

R2-1818503 Further details on RACH for NR-U Qualcomm Incorporated discussion R2-1817758 Late

R2-1818258 Enhance RACH with Additional Transmission Opportunities vivo discussion R2-1814262

R2-1816435 Modifications to RACH procedure due to LBT Motorola Mobility, Lenovo discussion R2-1814438

R2-1818259 Counter for Preamble Transmission Attempt vivo discussion

R2-1816688 Random access backoff and timers in NR-U MediaTek Inc. discussion Rel-16 FS_NR_unlic R2-1813964

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R2-1816829 Considerations on 4-step RACH procedure for NR-U ZTE Corporation discussion
R2-1816769 NR-U LBT Impact on Preamble Transmission Counting Convida Wireless discussion Rel-16 FS_NR_unlic
R2-1818141 Consideration of RACH procedure in NR-U system CMCC discussion
R2-1816831 LBT outcome indication ZTE Corporation discussion
R2-1816832 Considerations on RAR window size for NR-U ZTE Corporation discussion
R2-1817075 Considerations on initial access procedures for NR unlicensed operations Sony discussion Rel-16 FS_NR_unlic R2-1814736
R2-1817319 Random Access Procedure in NR-U Spreadtrum Communications discussion Rel-16 R2-1813874
R2-1817473 RACH Enhancement in NR-U Apple Inc. discussion Rel-16 FS_NR_unlic
R2-1817777 Diversity in RACH transmissions Lenovo, Motorola Mobility discussion FS_NR_unlic R2-1814836
R2-1817968 Handling of RA counters and timers in NR-U Ericsson discussion FS_NR_unlic
R2-1818100 Enhanced RACH procedure for NR-U LG Electronics Inc. discussion FS_NR_unlic R2-1815153
R2-1818187 Analysis of RA issues Potevio discussion Rel-16
R2-1816616 Four-step RACH procedure for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816478 LBT for RACH in NR-U MediaTek Inc. discussion Rel-16 R2-1813680

Moved from 11.2.1.3

R2-1817276 On CFRA in NR-U Fujitsu discussion Rel-15 FS_NR_unlic R2-1815447

RACH 2-step

R2-1817756 TP for 2-step RACH in NR-U Qualcomm Incorporated, Ericsson, Charter Communications, Interdigital, ZTE, Apple discussion Revised
R2-1818504 TP for 2-step RACH in NR-U Qualcomm Incorporated, Ericsson, Charter Communications, Interdigital, ZTE, Apple discussion R2-1817756 Late

⇒ **Agreed**

R2-1816685 2-step RACH msgA and msgB contents MediaTek Inc. discussion FS_NR_unlic
R2-1817064 Msg2 payload contents for 2-step RACH ZTE, Sanechips discussion FS_NR_unlic R2-1814034
R2-1816262 3-steps RACH procedure OPPO discussion
R2-1816263 2-steps contention based RACH procedure for NR-U OPPO discussion
R2-1816604 Timers and counters for two-step RACH Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816605 Consideration on 2-step RACH parameters and grant Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816606 Consideration on UE ID for 2-step RACH Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816607 Consideration on grant size for 2-step RACH Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816617 Two-step RACH procedure for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816687 2-step RACH msgB addressing and HARQ MediaTek Inc. discussion Rel-16 FS_NR_unlic
R2-1816697 Further consideration of 2-Step RACH Intel Corporation discussion Rel-16 FS_NR_unlic R2-1813988

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R2-1817192 2-step RACH resource assignment and fall-back operation for NR-U Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic
R2-1817195 Network control of 2-step CBRA procedure Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic
R2-1818098 2-Step CBRA procedure for NR-U LG Electronics Inc. discussion FS_NR_unlic R2-1815157
R2-1818128 Discussion on UE ID for msgA CMCC discussion
R2-1818138 The content of the two messages of 2-step RACH for NR-U CMCC discussion
R2-1818162 Considerations on Common 2-Step RACH III discussion Rel-16 FS_NR_unlic
R2-1818260 RAN2 impacts of 2-step RACH vivo discussion R2-1814263

11.2.1.3 Other

User plane impacts other than MAC

LBT Type and CAPC

R2-1816568 TP for Channel Access Priority Class in NR-U Charter Communications Inc., Qualcomm, ZTE, Nokia, Nokia Shanghai Bell, InterDigital discussion Rel-15 38.889 FS_NR_unlic DISC
- Ericsson wonders if we are in charge of this.
- Mediatek think that for LTE LAA this was done by RAN1 but think it would be ok for R2 to express opinions.
- Mediatek wonders if we would like to take into account e.g. PUCCH?
- Charter think we can remove “and channel access mechanisms”.
- LG wonders if LCP will be impacted. Mediatek think LCP is not impacted.

⇒ **agreed**

R2-1816600 Consideration on channel access priority class Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816723 CAPC for data transmission in NR-U MediaTek Inc. discussion Rel-16 FS_NR_unlic R2-1813675
R2-1816479 LBT for PUCCH in NR-U MediaTek Inc. discussion Rel-16 R2-1813679
R2-1818263 Discussion on the service based channel access priority vivo discussion R2-1814269
R2-1817094 LBT types for NR-U Samsung discussion Rel-15 FS_NR_unlic R2-1813639
R2-1817965 Discussions on channel access priority in NR-U Ericsson discussion FS_NR_unlic

Other

R2-1817472 QoS Flow based Data Split between Licensed and Unlicensed Spectrum Apple Inc. discussion Rel-16 FS_NR_unlic
R2-1816840 Considerations on PDCP duplication and data split for NR-U ZTE Corporation discussion R2-1813746
R2-1818130 NR-U impacts on DRB mapping CMCC agenda R2-1815252
R2-1818354 Multi-path packet duplication for NR-U LG Electronics Inc. discussion FS_NR_unlic
Moved from 11.2.1.2

11.2.2 Control plane

R2-1818289 Mobility in NR-U MediaTek Inc. discussion R2-1813681

11.2.2.1 Inactive and Idle mode

Impacts to 38.304: mobility, paging in idle and inactive modes, system information

System Information Scheduling

R2-1816835 Enhancements for SI transmission on NR-U ZTE Corporation discussion

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⇒ **Noted**

R2-1816700 SI scheduling in NR-u Intel Corporation discussion Rel-16 FS_NR_unlic

⇒ **Noted**

R2-1816317 Mapping between SI Messages and SI Windows in NR-U Samsung Electronics Co., Ltd
discussion Rel-16 FS_NR_unlic
CLARIFICATION DISC
- LG wonders how different periodicity can be supported with multiple SI message for same SI-window. Samsung clarifies that all messages have the same period
- ZTE wonders if the UE can selectively receive a specific SI message with this method. Samsung think they use the same RNTI.

⇒ **Noted**

R2-1817977 Extended, overlapping SI-windows in NR-U Ericsson discussion FS_NR_unlic

⇒ **Noted**

R2-1816267 System information enhancements in NR-U OPPO discussion

⇒ **Noted**

DISCUSSION on the 5 tdocs above
- QC think that extending the Si window can already be done, and think that selective reception of a specific SI message should be supported. QC think we should consider overlapping windows.
- LG also think we need more than we have today, and think the Ericsson and Samsung proposals could be considered, and would prefer the Ericsson proposal.
- Nokia think the ZTE proposal would be sufficient. The need for other proposals is not clear. Lenovo agrees, and think that the UE impact to receive and accumulate SI messages in parallel is not desired.
- Charter think some new mechanism is needed.
- Ericsson think that it is desirable to be able to transmit several SI messages at the same time.
- QC think we capture these proposals as beneficial, and not exclude anything for the moment.
- Intel think we need to prove the need for enhancements
- Nokia think for the moment NR-U would typically work with a single SI message, and no enhancement is needed. QC think this is a full system.
- vivo also support multiple windows / reception is parallel.

Offline (112), TP on proposals on-the-table and their main beneficial characteristics (Ericsson), in R2-1818750

R2-1818750 TP on SI scheduling Ericsson

⇒ **Agreed**

R2-1817325 SI design in NR-U Spreadtrum Communications discussion Rel-16 R2-1813872

⇒ **Noted**

R2-1816316 Frequency Domain Aspects of SI Message TX/RX in NR-U Samsung Electronics Co., Ltd
discussion Rel-16 FS_NR_unlic
- LG think we should avoid this, as we care about UE power consumption, and think dynamic scheduling would be bad.
- QC agrees with LG and think that FDM method should be avoided.
- Nokia think it is not clear what consumes more power, wider bandwidth or longer on time
- Chair: there seems to be less interest for FDM solutions than for TDM solutions for SI scheduling

⇒ **Noted**

SI Update

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R2-1816314 SI Update in NR-U Samsung Electronics Co., Ltd discussion Rel-16 FS_NR_unlic

⇒ **Noted**

R2-1817978 How to handle failure to transmit SI update notification in NR-U Ericsson discussion FS_NR_unlic

- Ericsson clarifies: SI change indication may span time both before and after the actual SI change.

⇒ **Noted**

DISCUSSION 2 docs above

- LG think we already enhance paging, and do we then need additional method.
- Ericsson agrees that paging enhancements are beneficial.
- Nokia would like to understand the issue, Modification period is long and the UE should be able to acquire the change indication. ZTE also don't think there is any issue

On Demand SI

R2-1816315 On Demand SI in NR-U Samsung Electronics Co., Ltd discussion Rel-16 FS_NR_unlic

R2-1817976 Dedicated RRC signaling for request and delivery of on-demand SI in NR-U Ericsson discussion FS_NR_unlic

R2-1816608 Consideration on SI for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic

R2-1817979 Indication of duration of broadcast of requested on-demand SI in NR-U Ericsson discussion FS_NR_unlic

Paging

R2-1816706 Paging enhancement for NR-U Intel Corporation discussion Rel-16 FS_NR_unlic

⇒ **Noted**

R2-1816446 Paging enhancements in NR Unlicensed band LG Electronics Inc. discussion FS_NR_unlic R2-1815339

⇒ **Noted**

DISCSUSSION on the two docs above

- QC think we can discuss longer PO or multiple PO.
- LG additionally propose a dynamic PO extension variant.

Offline (113) TP on TDM solutions on-the-table for increased paging opportunities, in R2-1818751 (QC)

R2-1818751 TP on Paging Qualcomm Inc.

⇒ **Agreed**

R2-1816313 Paging in NR-U Samsung Electronics Co., Ltd discussion Rel-16 FS_NR_unlic

- LG has concerns to use frequency > 20MHz in Idle / Inactive.
- Chair: There seems to be little interest in the FDM approach for paging

⇒ **Noted**

R2-1817759 Idle/Inactive mode issues for NR-U Qualcomm Incorporated discussion Revised

R2-1818502 Idle/Inactive mode issues for NR-U Qualcomm Incorporated discussion R2-1817759 Late

R2-1816268 Paging enhancements in NR-U OPPO discussion

R2-1816597 Issue with NR-U Paging in Unlicensed Spectrum Charter Communications, Inc discussion Rel-15 38.889 FS_NR_unlic

R2-1816768 Paging For NR-U Convida Wireless discussion Rel-16 FS_NR_unlic

R2-1816777 TP for Paging in NR-U InterDigital discussion Rel-16 FS_NR_unlic

R2-1816837 Discussion on paging on NR-U ZTE Corporation discussion R2-1813724

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R2-1817471 Considerations on NR-U Paging Apple Inc. discussion Rel-16 FS_NR_unlic
R2-1817962 Additional paging transmission opportunities in NR-U Ericsson discussion FS_NR_unlic
R2-1818269 Paging enhancements for NR-U vivo discussion R2-1814266
R2-1816609 Consideration on paging for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic

Cell reselection

R2-1817904 Use of channel occupancy metric for cell reselection in NR-U InterDigital, Inc., Charter Communications, Inc., ASUSTeK, Ericsson, ZTE Corporation, OPPO discussion Rel-16 FS_NR_unlic

⇒ **Noted**

R2-1818416 Cell Reselection in NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic R2-1815438

⇒ **Noted**

DISCSUSSION on the 2 docs above
- Nokia wonders how the CO works. IDT think this can be specified in the WI.
- QC wonders how something unknown is useful, and think that UE need to measure a long time to know this, and thus it will consume lot of power. QC think we shouldn't do this.
- Chair: It seems difficult to make an assumption now that CO can be used in Idle / Inactive, due to quite a lot of concerns on power consumption and that the measurement has not been specified.

R2-1817935 Supporting Inter-frequency Redistribution for NR-U Samsung discussion FS_NR_unlic
- QC think we can do this if it is introduced for NR (licenced). Kyocera agrees. LG also agrees.
- Huawei think this is already supported in R15.
- Nokia think that the arguments are general and this should not be NR-U specific.
- ZTE think that the use case wold be somewhat different for NR-U
- QC wonders if we should capture that it is beneficial. Nokia think we have not concluded that.
- Chair: there seems to be some interest to handle load spreading between frequencies

⇒ **Noted**

R2-1818329 Reading MIBSIB1 from non-best cells LG Electronics Inc. discussion Rel-16 FS_NR_unlic
R2-1816610 Discussion on mobility in idle and inactive mode for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic
R2-1816834 The impact of non-best cell on cell reselection for NR-U ZTE Corporation discussion
R2-1817188 Conditions on camping on a non-best cell Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic R2-1814286
R2-1817576 Reselection considerations for NR-U Kyocera discussion
R2-1818291 Cell Selection Reselection in NR-U MediaTek Inc. discussion
R2-1816425 Cell re-selection considerations Gemalto N.V. discussion R2-1811251
R2-1817933 Introducing issues for NR-U Idle mode operation Samsung discussion FS_NR_unlic *Withdrawn*
R2-1816481 Cell Selection and Reselection in NR-U MediaTek Inc. discussion Rel-16 Withdrawn

Other

Moved from R-15 AI:

R2-1817322 Inactive State issues in NR-U Spreadtrum Communications discussion Rel-16

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11.2.2.2 Connected mode and RRC

General Mobility Aspects: How to find and identify NR-U target cell(s).
Impact to 38.331: RLM/RLF, mobility in connected mode (note that mobility solutions to be covered by the NR Mobility Enh WI are not to be discussed).

PCI collision and confusion

R2-1817193 Available tools for PCI confusion and collision in NR-U Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_unlic

- Ericsson think there are some issues that are specific to NR-U and think we should not agree to P1.

⇒ **gNB are expected to scan their frequency at switch on and identify neighbour cells' PCI.**

⇒ **ANR will be available for NR-U and will help for PCI de-ambiguation.**

R2-1817470 Considerations on UE Mobility in NR-U Apple Inc. discussion Rel-16 FS_NR_unlic

R2-1816699 Neighbour cell detection for handover and cell reselection Intel Corporation discussion Rel-16 FS_NR_unlic

R2-1816773 Considerations on PCI Confusion Issue Charter Communications, Inc discussion Rel-15 38.889 FS_NR_unlic

R2-1817971 Managing PCI collisions in NR-U Ericsson discussion FS_NR_unlic

R2-1818289 Mobility in NR-U MediaTek Inc. discussion R2-1813681

Measurements

R2-1818069 Discussion on connected mode RRM measurement framework in NR-U Samsung discussion R2-1815165

P1/P2

- Samsung proposes to have the RRM model figure in the TR. Chair wonders why as there is no change compared to 38300.
- Panasonic think P2 is discussed in R1.
- Mediatek think we assumed that for Idle LBT failure had no impact in R2. Could we make this assumption also for Connected mode?
- IDT would like to not agree P2
- Chair: For the moment it seems RAN2 has no reason to assume that LBT impact to measurements would need to be taken into account in RAN2

P3

- Mediatek think we cannot agree to proposal 3 now, unless we know more what the CO measurement is.
- Chair: we can come back and discuss how the CO measurement is used once it is better specified.

⇒ **Confirm that NR RRM model (figure in 38.300) is reused for NR-U**

R2-1818328 Channel occupancy measurement enhancements for NR-U LG Electronics Inc. discussion Rel-16 FS_NR_unlic

R2-1816782 TP on Measurements for NR-U InterDigital discussion Rel-16 FS_NR_unlic

R2-1816839 Measurement in Connected Mode for NR-U ZTE Corporation discussion

R2-1816613 Discussion on measurements for NR-U Huawei, HiSilicon discussion Rel-15 FS_NR_unlic

R2-1817973 RRM framework in NR-U Ericsson discussion FS_NR_unlic

R2-1816711 The impact of the inaccurate measurement due to LBT failure PANASONIC R&D Center Germany discussion

RLM RLF

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R2-1817934	On indicating LBT failure for NR-U	Samsung	discussion	FS_NR_unlic	
R2-1816612	Discussion on RLF for NR-U	Huawei, HiSilicon	discussion	Rel-15	FS_NR_unlic
R2-1816781	TP on RLM for NR-U	InterDigital	discussion	Rel-16	FS_NR_unlic
R2-1818271	Text proposals for the evaluation resultsof the RLM in NR-U	vivo	discussion	R2-1814268	
R2-1817969	Handling LBT failures	Ericsson	discussion	FS_NR_unlic	
R2-1817194	On the impact of LBT on RA, SR and RLF procedure	Nokia, Nokia Shanghai Bell	discussion	Rel-16	FS_NR_unlic
R2-1816684	Handling systematic LBT failures in Random Access	MediaTek Inc.	discussion	Rel-16	FS_NR_unlic
R2-1816698	Consideration of RLM/RLF in NR-u	Intel Corporation	discussion	Rel-16	FS_NR_unlic R2-1813989
R2-1816836	Discussion on RLM RLF for NR-U	ZTE Corporation	discussion		
R2-1817191	RLM/RLF measurement on NR-U	Nokia, Nokia Shanghai Bell	discussion	Rel-16	FS_NR_unlic R2-1814294
R2-1818270	Evaluation of the RLM in NR-U	vivo	discussion	R2-1814267	

Mobility Connected mode

R2-1817189	RRC connected mode mobility for NR-U	Nokia, Nokia Shanghai Bell	discussion	Rel-16	FS_NR_unlic R2-1814289
R2-1818257	Open issues for NR-U connected mode mobility	CMCC	discussion	Rel-16	
R2-1816611	Discussion on mobility in connected mode for NR-U	Huawei, HiSilicon	discussion	Rel-15	FS_NR_unlic
R2-1817575	Connected mobility considerations for NR-U	Kyocera	discussion		

Other

R2-1816838	Consideration on SRB enhancement for NR-U	ZTE Corporation	discussion	R2-1813729	
R2-1817099	Group BWP switching in unlicensed band	Samsung	discussion	Rel-15	FS_NR_unlic R2-1813640

Withdrawn

R2-1816480	Mobility in NR-U	MediaTek Inc.	discussion	Rel-16	R2-1813681	Withdrawn

11.2.2.3 Other

E.g. system topics for Stand Alone, if any.

R2-1816614	NR-U with SUL	Huawei, HiSilicon	discussion	Rel-15	FS_NR_unlic
R2-1816615	IDC for NR-U	Huawei, HiSilicon	discussion	Rel-15	FS_NR_unlic
R2-1817469	Discussion on NR-U Cell Access Solution	Apple Inc.	discussion	Rel-16	FS_NR_unlic

11.2.3 Other

Including general topics covering both CP and UP, organisational

IDC

R2-1818131	In-device coexistence for NR-U	CMCC	agenda R2-1815253		
R2-1816615	IDC for NR-U	Huawei, HiSilicon	discussion	Rel-15	FS_NR_unlic
R2-1818070	Discussion to support IDC indication in NR-U	Samsung	discussion	R2-1815166	
R2-1818190	Discussion on IDC problems in NR-U	ASUSTeK	discussion	Rel-16	FS_NR_unlic R2-1815228

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11.3 Study on Self Evaluation towards IMT-2020 submission

(FS_5G_eval; leading WG: RAN; REL-16; started: Mar. 17; target: Jun. 19: SID: RP-171451)
This agenda item is for submission of any contributions related to the RAN2 aspects of the self-evaluation for the IMT-2020 submission.

R2-1818447 IMT-2020 self-evalution: CP latency Ericsson discussion Rel-15 FS_5G_eval Late

11.4 Study on NR V2X

(FS_NR_V2X; leading WG: RAN1; REL-16; started: Jun 18; target; Mar 19; SID: RP-182111)
Time budget: 1 TU
Documents in this agenda item will be handled in a break out session

11.4.1 General

Including incoming LSs, work plan, rapporteur inputs, skeleton TR
Including output of email discussion [103bis#35][NR/V2X] V2X agreements (Huawei)

R2-1816217 LS on Uu control of NR sidelink (R1-1812057; contact: Huawei) RAN1 LS in Rel-16 FS_NR_V2X To:RAN2
=> Noted.

R2-1816218 Multiple active configured UL grants for NR V2X (R1-1812058; contact: Ericsson) RAN1 LS in Rel-16 FS_NR_V2X To:RAN2

[OPPO]: It is also discussed in other WI. [Ericsson]: It is more WI phase discussion so we do not need to study in our SI. [LG]: We do not need to discuss details in our SI and during WI phase, we can discuss details and difference compared to other use cases.
=> Only V2X specific and stage 2 level issues will be studied during SI phase.

R2-1818196 Email discussion-[103bis#35][NR/V2X] V2X agreements Huawei, HiSilicon discussion Rel-16 Late

R2-1818546 Email discussion-[103bis#35][NR/V2X] V2X agreements Huawei, HiSilicon discussion Rel-16 Late

[Inter Digital]: The only difference between scenario 3 and 4 is connection to the different core NW? [Huawei]: Yes [LG]: Wants to capture LTE standalone which connected to EPC, but still we deprioritze the case as we deprioritize the scenario 3.
=> Add the scenario that LTE standalone connected to EPC, but we will add note that we will deprioritize this scenario (similar to a note for scenario 3/4).
=> TP is agreed with the above change and include it in the LS to RAN1 and SA2.
=> [Offline discussion#714]: Draft LS to RAN1 and SA2 (Huawei, R2-1818727 for LS and R2-1818728 for TP)
=> TP is agreed with the change from “Multi-RAT Dual Connectivity” into “Multi-Radio Dual Connectivity” in R2-1818737.
=> LS is approved with adding RAN3 to “To:” (R2-1818738)

11.4.2 Sidelink design

11.4.2.1 Scenarios

Including scenarios to be considered in SI

R2-1817466 Support of Vulnerable Road User Apple Inc., Samsung Electronicsdiscussion Rel-16 FS_NR_V2X

R2-1816337 Discussion on target scenarios for NR-V2X OPPO discussion Rel-16 FS_NR_V2X

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R2-1816701 On overall sidelink design principles for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1816894 Resource Allocation in case of Cross-RAT Control CATT discussion
R2-1816895 Scenarios of Mode 1 for sidelink unicast/groupcast CATT discussion
R2-1817008 Sidelink Scenarios for NR V2X Samsung Electronics GmbH discussion Rel-16 R2-1815149
R2-1817107 NR V2X scenario for PDCP duplication supporting vivo discussion R2-1813920
R2-1817113 Discussion on the support of NR mode1 and LTE mode3 for the cross-RAT control vivo discussion
R2-1817684 Cross-RAT V2X support Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X
R2-1817768 UE minimum RAT capability in NR V2X Lenovo, Motorola Mobility discussion FS_NR_V2X
R2-1817770 Multi-Connectivity scenarios for Vehicle to Everything (V2X) AT&T discussion
R2-1817771 UE minimum RF capability in NR V2X Lenovo, Motorola Mobility discussion FS_NR_V2X
R2-1817951 On Inter-RAT Network Control of Sidelink Ericsson discussion FS_NR_V2X
R2-1818417 Adding EPC based eNB controlling NR SL in Scenario 2 LG Electronics Inc. discussion Rel-16 FS_NR_V2X
R2-1818418 TP to EPC based eNB controlling NR SL in Scenario 2 LG Electronics Inc. discussion Rel-16 38.885 FS_NR_V2X
R2-1818419 Proposed LS on cross-RAT sidelink control LG Electronics Inc. LS out Rel-16 FS_NR_V2X To:SA2, RAN3 Cc:RAN1
R2-1817001 Discussion on Support of Vulnerable Road User Samsung Electronics discussion R2-1815127
R2-1817460 Clarification on supported scenarios for NR V2X SI Huawei, HiSilicon discussion Rel-16 FS_NR_V2X Late

11.4.2.2 L2/3 Protocol design common for unicast, groupcast and broadcast

Including common L2/3 protocol impacts (other than resource allocation aspect) for SL unicast, groupcast and broadcast
Including output of email discussion [103bis#36][NR/V2X] SL broadcast, UP aspects (LG)
Including output of email discussion [103bis#37][NR/V2X] NR SL broadcast, CP aspects (Huawei)

R2-1816515 Summary of Email Discussion [103bis#36][NR/V2X] CP aspects for NR sidelink design Huawei (Rapporteur) discussion Rel-16 FS_NR_V2X Late

Proposal 1: NR V2X sidelink communication is supported for all RRC_CONNECTED UEs, RRC_IDLE UEs and RRC_INACTIVE UEs (if supported).
Proposal 1a: A UE in RRC_INACTIVE (if supported) performs V2X sidelink communication following the same way as RRC_IDLE UEs, i.e. using cell-specific configurations included in SIB.
[LG]: In scenario 3, we don't have RRC_inactive. [LG]: Do we need to consider eLTE state?
=> Proposal 1 and 1a are agreed.

Proposal 2: As in LTE, V2X-specific SIB(s) is needed for NR V2X.
Proposal 2c: It is FFS by RAN2 whether V2X-specific SI should be on-demand SI or not for a cell supporting V2X sidelink communication in NR.
=> Proposal 2 and 2c are agreed.

Proposal 3: For RRC connection establishment for NR V2X sidelink communication, the RRC connection establishment condition for LTE V2X sidelink communication (i.e. concerned frequency included in SIB without Tx pool) is taken as the baseline.
Proposal 3a: It is FFS whether/what new RRC connection establishment condition(s) for V2X sidelink communication are needed in NR, on top of the LTE baseline.
=> Proposal 3 and 3a are agreed.

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Proposal 4: RAN2 will support the case a UE can be configured to perform both mode-1 and mode-2 at the same time assuming RAN1 does not have concern on it. FFS on the scenario which it is applicable.
[LG]: Is it applicable to only intra-carrier or both intra-carrier and inter-carrier? [Huawei]: We can consider that aspect during WI phase.
=> Proposal 4 is agreed.

Proposal 5: For NR V2X sidelink communication during handover, the Tx and Rx operations and configurations during handover in LTE V2X sidelink communication (i.e. using Rx pool and exceptional Tx pool of the target cell configured in HO command) are taken as the baseline.
Proposal 5a: Enhancements for the Tx/Rx operations and configurations during handover are needed for NR V2X sidelink communication, on top of the LTE baseline. Details are FFS.
Proposal 5b: For cell (re)selection in NR V2X sidelink communication, the cell reselection criterion (i.e. prioritizing frequency giving inter-carrier V2X SL configuration) and configuration (i.e. SL-AnchorCarrierFreqList-V2X) in LTE V2X sidelink communication are taken as the baseline.
Proposal 5c: Regarding the cell (re)selection for V2X sidelink communication in NR, it is FFS whether/what new criterion/configuration is needed on top of the LTE baseline.
Proposal 5d: It is up to UE implementation how to minimize the transmission/reception interruption for NR V2X sidelink communication during cell (re)selection.
=> Proposal 5, 5a, 5b, 5c and 5d are agreed.

Proposal 6: For NR V2X sidelink communication, the reporting of sidelink UE information is needed. The sidelink UE information reporting mechanism in LTE is taken as the baseline.
Proposal 6a: For sidelink UE information in NR, it is FFS what information needs to be included.
=> Proposal 6 and 6a are agreed.

Proposal 7: For sidelink related measurement and reporting in NR, CBR measurement and reporting as well as location reporting are needed. The CBR measurement/reporting mechanism and location reporting mechanism (FFS whether NR signaling supports it) for LTE V2X sidleink communication are taken as the baseline.
Proposal 7b: RAN2 may decide whether any enhancements are needed for sidelink related measurement and reporting mechanism in NR on top of the LTE baseline depending on RAN1 progress.
=> Proposal 7 and 7b are agreed.

Proposal 8: To report the traffic pattern(s) for NR V2X sidelink communication, UE assistance information reporting is needed (at least for periodic traffic pattern). The UE assistance reporting mechanism for LTE V2X sidelink communication is taken as the baseline.
Proposal 8a: RAN2 to further discuss whether/what new information is needed in UE assistance information for NR V2X sidelink communication, on top of the LTE baseline, based on the conclusion of QoS discussion.
=> Proposal 8 and 8a are agreed.

Proposal 9: RAN2 wait for RAN1 conclusions on SL synchronization design before working on the MIB-SL-V2X design in NR PC5 RRC.
=> Proposal 9 is agreed.

Proposal 10: In NR, PC5-C protocol stack includes at least RRC, RLC, MAC and PHY sub-layers. Whether to have PDCP sub-layer depends on whether any new PC5 RRC message other than MIB-SL is introduced (e.g. outcome of [103bis#38]).
=> Proposal 10 is agreed.

Agreements

1: NR V2X sidelink communication is supported for all RRC_CONNECTED UEs, RRC_IDLE UEs and RRC_INACTIVE UEs (if supported). A UE in RRC_INACTIVE (if supported) performs V2X sidelink communication following the same way as RRC_IDLE UEs, i.e. using cell-specific configurations included in SIB.

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2: As in LTE, V2X-specific SIB(s) is needed for NR V2X. It is FFS by RAN2 whether V2X-specific SI should be on-demand SI or not for a cell supporting V2X sidelink communication in NR.

3: For RRC connection establishment for NR V2X sidelink communication, the RRC connection establishment condition for LTE V2X sidelink communication (i.e. concerned frequency included in SIB without Tx pool) is taken as the baseline. It is FFS whether/what new RRC connection establishment condition(s) for V2X sidelink communication are needed in NR, on top of the LTE baseline.

4: RAN2 will support the case a UE can be configured to perform both mode-1 and mode-2 at the same time assuming RAN1 does not have concern on it. FFS on the scenario which it is applicable.

5: For NR V2X sidelink communication during handover, the Tx and Rx operations and configurations during handover in LTE V2X sidelink communication (i.e. using Rx pool and exceptional Tx pool of the target cell configured in HO command) are taken as the baseline. Enhancements for the Tx/Rx operations and configurations during handover are needed for NR V2X sidelink communication, on top of the LTE baseline. Details are FFS.

6: For cell (re)selection in NR V2X sidelink communication, the cell reselection criterion (i.e. prioritizing frequency giving inter-carrier V2X SL configuration) and configuration (i.e. SL-AnchorCarrierFreqList-V2X) in LTE V2X sidelink communication are taken as the baseline. Regarding the cell (re)selection for V2X sidelink communication in NR, it is FFS whether/what new criterion/configuration is needed on top of the LTE baseline. It is up to UE implementation how to minimize the transmission/reception interruption for NR V2X sidelink communication during cell (re)selection.

7: For NR V2X sidelink communication, the reporting of sidelink UE information is needed. The sidelink UE information reporting mechanism in LTE is taken as the baseline. For sidelink UE information in NR, it is FFS what information needs to be included.

8: For sidelink related measurement and reporting in NR, CBR measurement and reporting as well as location reporting are needed. The CBR measurement/reporting mechanism and location reporting mechanism (FFS whether NR signaling supports it) for LTE V2X sidleink communication are taken as the baseline. RAN2 may decide whether any enhancements are needed for sidelink related measurement and reporting mechanism in NR on top of the LTE baseline depending on RAN1 progress.

9: To report the traffic pattern(s) for NR V2X sidelink communication, UE assistance information reporting is needed (at least for periodic traffic pattern). The UE assistance reporting mechanism for LTE V2X sidelink communication is taken as the baseline. RAN2 to further discuss whether/what new information is needed in UE assistance information for NR V2X sidelink communication, on top of the LTE baseline, based on the conclusion of QoS discussion.

10: RAN2 wait for RAN1 conclusions on SL synchronization design before working on the MIB-SL-V2X design in NR PC5 RRC.

11: In NR, PC5-C protocol stack includes at least RRC, RLC, MAC and PHY sub-layers. Whether to have PDCP sub-layer depends on whether any new PC5 RRC message other than MIB-SL is introduced (e.g. outcome of [103bis#38]).

R2-1818547 TP to TR 38.885 on NR SL design, CP aspects Huawei, HiSilicon
=> [Offline discussion#715]: Revise the TP according to the above agreements. We will avoid to capture all FFS in the above agreements, i.e. we will capture new one into TR once agreed (R2-1818729).
=> Update a note into “Editor's note: Whether to support CBR measurement and reporting, and simultaneous configuration of mode 1 and mode 2 for resource allocation for the UE has RAN1 dependency.”

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=> Update “(if applicable)” to “(if supported)” in the first sentence.
=> With the above changes, TP is agreed in R2-1818739.

R2-1818420 Report of [103bis#36][NR/V2X] SL broadcast, UP aspects (LG) LG Electronics Inc.
discussion Rel-16 FS_NR_V2X Late

Proposal M1: RAN2 sends a LS to ask RAN1 if a full Destination ID can be provided by L1 signalling to determine need for packet filtering in NR MAC, assuming that if Layer 1 cannot provide packet filtering with a full Destination ID, NR MAC will support packet filtering function and consider LTE operation as a baseline for this function, i.e. packet filtering based on SRC/DST fields in MAC subheader, as least for SL broadcast.
[ZTE]: We should not indicate any assumption/preference on L1 id in the LS. [Ericsson, Convida]: It is important to understand L1 id issue, but we do not have to send LS to RAN1. [Huawei]: Do we need some filtering function in order to avoid L2 id collision for groupcast and unicast?
=> RAN2 will capture L2 packet filtering function with the condition (i.e. if full L1 id is not used in L1 control information). It is FFS whether we need additional filtering function for unicast and groupcast.

Proposal M2: Sidelink carrier/resource (re-)selection function is supported in NR MAC at least for NR Sidelink broadcast. RAN2 should further study whether LTE operation can be reused for Sidelink carrier/resource (re-)selection function in NR, considering RAN1 progress.
=> Proposal M2 is agreed.

Proposal M3: Sidelink HARQ transmissions (w/o HARQ feedback) and Sidelink process are supported at least for NR sidelink broadcast. RAN2 should further discuss potential enhancements to sidelink HARQ operation, considering RAN1 progress.
=> Proposal M3 is agreed.

Proposal M4: Sidelink specific LCP is supported at least for NR sidelink broadcast in NR MAC. RAN2 should further study how Sidelink specific LCP will work.
=> Proposal M4 is agreed.

Proposal M5: Sidelink Buffer Status Reporting is supported for NR sidelink broadcast, groupcast and unicast in NR MAC.
[Huawei]: Information in LTE BSR should be considered but the actual format can be different in NR. [Qualcomm, Ericsson]: Detailed information should be discussed in WI phase and it can be different compared to LTE [Vivo]: It should be also supported for groupcast and unicast.
=> Proposal M5 is agreed.

Proposal M6: UL/SL TX prioritization is supported for NR sidelink broadcast, groupcast and unicast in NR MAC. Study potential improvements to UL/SL TX prioritization, if necessary e.g. due to potential impact on QoS.
[Intel, Huawei]: If we do not use PPPP like LTE, how we can say LTE operation is baseline? [OPPO]: In addition, we may need to consider DC specific issues.
=> Proposal M6 is agreed.

Proposal M7: RAN2 should additionally study whether and how to enhance SR procedure/configuration, MAC PDU format, HARQ/CSI feedback/procedure (for groupcast and unicast) (if there is any stage 2 RAN2 issue), and configured SL grant transmission in NR MAC.
[Samsung, OPPO]: It is not clear what RAN2 study area is for HARQ/CSI feedback. It seems more like stage 3 WI phase discussion.
=> Proposal M7 is agreed.

Proposal R1: Segmentation and reassembly of RLC SDUs are supported in NR RLC for NR sidelink broadcast, groupcast and unicast.
Proposal R1 is agreed.

Proposal R2: RLC SDU discard function is supported in NR RLC for NR sidelink broadcast, groupcast and unicast.

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=> Proposal R2 is agreed.

Proposal R4: If SBCCH is used for NR sidelink (dependent on RAN1 decision on synchronization aspect), a NR TM RLC entity is configured to submit/receive RLC PDUs.
=> Proposal R4 is agreed.

Proposal R5: A NR UM RLC entity is configured to submit/receive RLC PDUs, for user packets of SL broadcast, groupcast and unicast. RLC AM is not supported for broadcast.
=> Proposal R5 is agreed.

Proposal P1: Sidelink packet duplication is supported in NR PDCP for NR sidelink broadcast, groupcast. FFS on unicast.
=> Proposal P1 is agreed.

Proposal P2: Timer based SDU/PDU discard function is supported in NR PDCP for NR sidelink broadcast, groupcast and unicast.
=> Proposal P2 is agreed.

Agreements on MAC:

1: RAN2 will capture L2 packet filtering function with the condition (i.e. if full L1 id is not used in L1 control information). It is FFS whether we need additional filtering function for unicast and groupcast.

2: Sidelink carrier/resource (re-)selection function is supported in NR MAC at least for NR Sidelink broadcast. RAN2 should further study whether LTE operation can be reused for Sidelink carrier/resource (re-)selection function in NR, considering RAN1 progress.

3: Sidelink HARQ transmissions (w/o HARQ feedback) and Sidelink process are supported at least for NR sidelink broadcast. RAN2 should further discuss potential enhancements to sidelink HARQ operation, considering RAN1 progress.

4: Sidelink specific LCP is supported at least for NR sidelink broadcast in NR MAC. RAN2 should further study how Sidelink specific LCP will work.

5: Sidelink Buffer Status Reporting is supported for NR sidelink broadcast, groupcast and unicast in NR MAC.

6: UL/SL TX prioritization is supported for NR sidelink broadcast, groupcast and unicast in NR MAC. Study potential improvements to UL/SL TX prioritization, if necessary e.g. due to potential impact on QoS.

7: RAN2 should additionally study whether and how to enhance SR procedure/configuration, MAC PDU format, HARQ/CSI feedback/procedure (for groupcast and unicast) (if there is any stage 2 RAN2 issue), and configured SL grant transmission in NR MAC.

Agreements on RLC:

8: Segmentation and reassembly of RLC SDUs are supported in NR RLC for NR sidelink broadcast, groupcast and unicast.

9: RLC SDU discard function is supported in NR RLC for NR sidelink broadcast, groupcast and unicast.

10: If SBCCH is used for NR sidelink (dependent on RAN1 decision on synchronization aspect), a NR TM RLC entity is configured to submit/receive RLC PDUs.

11: A NR UM RLC entity is configured to submit/receive RLC PDUs, for user packets of SL broadcast, groupcast and unicast. RLC AM is not supported for broadcast.

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Agreements on PDCP:

12: Sidelink packet duplication is supported in NR PDCP for NR sidelink broadcast, groupcast. FFS on unicast.

13: Timer based SDU/PDU discard function is supported in NR PDCP for NR sidelink broadcast, groupcast and unicast.

R2-1818484 Proposed TP for NR V2X SL broadcast, UP aspects LG Electronics Inc.
[Intel]: If some LTE mechanism is baseline, it will be better to include some brief explanation what is the baseline.
=> To add more description to explain what the baseline is if LTE mechanism is baseline.
=> To add user plane protocol stack (with FFS on SDAP for broadcast, groupcast and unicast).
=> [Offline discussion#716]: Update the TP according to the above agreements (R2-1818730).
=> TP is agreed in R2-1818730.

R2-1816892 NR sidelink UP protocol stack and functions CATT discussion
R2-1818197 NR SL protocol stack overview Huawei, HiSilicon discussion Rel-16
R2-1817959 Consideration on NR V2X sidelink PDCP protocol stack Ericsson discussion FS_NR_V2X
R2-1816524 Support of mode switch and multiple modes coexistence for NR sidelink Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1816792 Control Plane Aspects for Broadcast NR V2X InterDigital discussion Rel-16 FS_NR_V2X
R2-1816891 NR sidelink CP protocol stack CATT discussion
R2-1816896 MAC PDU format in PC5 CATT discussion
R2-1817009 sidelink SPS for NR V2X Samsung Electronics GmbH discussion Rel-16 R2-1815151
R2-1817116 Different destination service multiplexing in MAC vivo discussion
R2-1817928 On the sidelink session and connection Ericsson discussion FS_NR_V2X
R2-1817952 On L2 IDsEricsson discussion FS_NR_V2X
R2-1817954 On Sidelink UE Information Ericsson discussion FS_NR_V2X
R2-1817958 Consideration on NR V2X sidelink MAC protocol stack Ericsson discussion FS_NR_V2X
R2-1817960 Consideration on NR V2X sidelink RLC protocol stack Ericsson discussion FS_NR_V2X
R2-1817961 NR V2X sidelink protocol stack overview Ericsson discussion FS_NR_V2X
R2-1818178 SL MAC considerations for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1818274 Consideration on miscellaneous MAC aspects for NR sidelink design Huawei, HiSilicon discussion Rel-16
R2-1818421 NR Sidelink logical channels for unicast/groupcast/broadcast LG Electronics Inc. discussion Rel-16 FS_NR_V2X
R2-1818422 Protocol Stacks for NR Sidelink LG Electronics Inc. discussion Rel-16 FS_NR_V2X
R2-1818467 PDCP Functions for NR Sidelink Samsung discussion Rel-16 FS_NR_V2X
R2-1818469 RLC Functions for NR Sidelink Samsung discussion Rel-16 FS_NR_V2X
R2-1818484 Proposed TP to NR V2X SL broadcast, UP aspects LG Electronics Inc. discussion Rel-16 FS_NR_V2X Late
R2-1818492 SR configuration for NR Sidelink Logical Channels LG Electronics Inc. discussion Rel-16 FS_NR_V2X

11.4.2.3 L2/3 Protocol design specific to unicast/groupcast/broadcast

Including L2/3 protocol impacts (other than resource allocation aspect) specific for SL unicast/groupcast/broadcast
Including output of email discussion [103bis#38][NR/V2X] SL unicast/groupcast (LG)

R2-1818496 Report of 103B#38 NR SL unicast and groupcast LG Electronics UK discussion Rel-16 Late

Proposal U1. For AS-level information required to exchange among UEs via sidelink for SL unicast, RAN2 can consider the followings as a baseline and will check if the AS-level information can be agreed and the details after some progress in RAN2, SA2 and RAN1:
UE ID, UE capability, Radio/Bearer configuration, PHY information/configuration (e.g. HARQ, CSI), Resource information/configuration and QoS info
=> Proposal U1 is agreed.

Proposal U2: AS-level information for SL unicast can be exchanged between gNB and UE for RRC configuration. RAN2 assumes that a UE can provide network with QoS related information and will check if the AS-level information can be agreed and the details after some progress in RAN2, SA2 and RAN1.
=> Proposal U2 is agreed.

Proposal U3: For how to exchange AS-level information (other than RRC connection establishment purpose) among UEs via sidelink for SL unicast, RAN2 considers both options (i.e. by upper layer and by AS layer) for the study and need to further study the selection or the information exchanged via each option if both are selected.
Option 1: AS-level information is exchanged via upper layer signalling (e.g. PC5-S)
Option 2: AS-level information is exchanged via RRC signalling (e.g. PC5-RRC)
[OPPO]: PC5-S only may not work so we should consider either PC5-RRC only or both PC5-S and PC5-RRC. [ZTE]: PC5-RRC may include the container, which has upper-layer information.
Supporting companies for option 2: 16
Supporting companies for option 1: 2
=> Option 2 is agreed. With option 2, new logical channel (SCCH: SL Control Channel) in addition to STCH (SL Traffic Channel) will be also introduced. SCCH carriers PC5-RRC messages.

Proposal U4: RAN2 needs to further study the following issues:
- Issue 1) According to TR 23.786, SA2 assume V2X layer performs sidelink connection establishment procedure by PC5-S signalling for unicast. Do you think AS layer needs to perform sidelink connection establishment procedure by RRC signalling?
> A: Yes, AS layer connection establishment procedure by RRC signalling also needs
> B: No, upper layer connection establishment procedure is enough
> C: Others
[OPPO, Ericsson, Apple, Huawei, Intel]: What is intention to have AS-level connection establishment procedure? Connection establishment should be done in upper-layer. SL is different compared to Uu case. [Vivo, Convida]: We need AS-level connection establishment in addition to AS-level bearer and resource configurations. [LG]: RRC connection establishment is required for link maintenance. [Ericsson, Apple]: It is separate issue and even w/o RRC connection establishment, some level of link maintenance can be done.
Supporting companies for option 1: 14
Supporting companies for option 2: 8
[OPPO]: What is definition of PC5-RRC connection establishment and what is the purpose? [LG]: Even though supported option1, but agrees with OPPO.
=> RAN2 will consider both options during SI phase. We will have email discussion on the definition, procedure and information for each option to understand how it works.

- Issue 2) if answer is A) in Issue 1), do you think when the AS layer sidelink connection establishment procedure is performed.
> A: Only when upper layer sidelink connection establishment procedure triggered and performed
> B: AS layer can trigger it by itself if some conditions are satisfied in AS layer.
=> Issue 2 will be discussed as part of the above email discussion.

Proposal U5: RAN2 assumes that AS level-management procedure is supported for sidelink for SL unicast:
[Qualcomm, OPPO]: With PC5-S keep alive message, we may not need AS-level management. [LG, Ericsson, Convida]: We may need additional AS-level keep alive message for more robust and quick detection. [OPPO]: What is definition of AS-level management? Does it

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mean actual AS-level message exchange or a kind of RLM? [MediaTek]: It includes either AS-level keep alive message or RLM. [OPPO]: Having AS-level keep alive message seems duplicated function with upper-layer keep alive message. [Apple]: It should be a kind of RRM.
Option 1: a kind of PC5 RRC-level keep alive message (0)
Option 2: a kind of RRM or RLM (11)
Option 3: no AS-level management (5)
=> RAN2 will consider option 2-based AS level link management. For possible detailed options, we will have an email discussion (separate email discusison from Proposal U4)

Proposal G1: RAN2 considers Unicast operation as a baseline for groupcast operation so, study Unicast first and groupcast later:
[Qualcomm, Samsung, Intel, LG]: It should not be same between groupcast and unicast, e.g. do we need AS-level connection establishment for all UEs belonging to the same group? We should see case by case whether it will be same as unicast or not.
=> The above email discussion will take into account also, i.e. whether groupcast follows same mechanism for unicast to be defined via email discussion or not.

Proposal G2: For groupcast, RAN2 assumes that there may be a group manager (a.k.a. head UE) for some use cases (e.g. for platooning). RAN2 can inform other WGs about this assumption.
[OPPO, Samsung]: It is early to send LS to SA2 w/o clear understanding on the meaning.
=> No AS-level mechanism to determine a group manager (i.e. head UE). FFS for platooning, on the visibility of a group manager (head UE) to AS and AS-level functionalities.

Agreements on unicast

1: For AS-level information required to exchange among UEs via sidelink for SL unicast, RAN2 can consider the followings as a baseline and will check if the AS-level information can be agreed and the details after some progress in RAN2, SA2 and RAN1:

- UE ID, UE capability, Radio/Bearer configuration, PHY information/configuration (e.g. HARQ, CSI), Resource information/configuration and QoS info

2: AS-level information for SL unicast can be exchanged between gNB and UE for RRC configuration. RAN2 assumes that a UE can provide network with QoS related information and will check if the AS-level information can be agreed and the details after some progress in RAN2, SA2 and RAN1.

3: AS-level information is exchanged via RRC signalling (e.g. PC5-RRC) among UEs via sidelink for SL unicast. New logical channel (SCCH: SL Control Channel) in addition to STCH (SL Traffic Channel) will be also introduced. SCCH carriers PC5-RRC messages.

4: RAN2 will consider both options during SI phase. Further discussion on the definition, procedure and information for each option is needed.

- Option 1: AS layer connection establishment procedure by PC5-RRC is also needed.

- Option 2: Upper layer connection establishment procedure is enough.

5: RAN2 will study a kind of RRM or RLM based AS level link management. RAN2 will not consider a kind of PC5-RRC level keep alive message based management. Further discussion on possible detailed options is needed.

Agreements on groupcast

6: Further discussion is needed on whether groupcast follows same mechanism for unicast, which are agreed in the above.

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7: No AS-level mechanism to determine a group manager (i.e. head UE) is stuided. FFS for platooning, on the visibility of a group manager (head UE) to AS and AS-level functionalities.

=> Email discussion#701: Discuss definition, procedure, signaling flows and information to provide clear whole picture on how each option works.
- Option 1: AS layer connection establishment procedure by PC5-RRC is also needed.
- Option 2: Upper layer connection establishment procedure is enough.
=> Email discussion#702: Discuss possible detailed options on AS level link management and make a TP for the proposed agreeable option(s).

R2-1816339 Discussion on CP aspects of unicast and groupcast for NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1816340 Discussion on UP aspects of unicast and groupcast for NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1816516 Reliability enhancements for NR sidelink broadcast Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1816517 Potential AS layer impacts on SL connection setup and configuration in unicast Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1816772 NR V2X support for Unicast and Groupcast Communication Fraunhofer HHI, Fraunhofer IIS discussion Rel-16
R2-1816787 Support for Unicast and Groupcast in NR V2X InterDigital discussion Rel-16 FS_NR_V2X
R2-1816898 Discovery Procedure and Connection Setup Procedure in NR Sidelink CATT discussion
R2-1816966 Support of Sidelink unicast and groupcast for NR-V2X ITRI discussion
R2-1816974 Draft LS to SA2 on sidelink connection management for unicast Huawei LS out Rel-16 FS_NR_V2X To:SA2
R2-1816995 Support of unicast and groupcast in NR Sidelink ZTE, Sanechips discussion R2-1814174
R2-1817108 Sidelink unicast procedures in NR vivo discussion R2-1813921
R2-1817115 Sidelink groupcast in NR vivo discussion
R2-1817117 Connection establishment for Unicast in NR V2X Lenovo, Motorola Mobility discussion Rel-16 FS_NR_V2X R2-1814503
R2-1817459 AS-related group management for platooning Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1817467 RRC Signaling Support over PC5 Apple Inc. discussion Rel-16 FS_NR_V2X
R2-1817578 Considerations for Groupcast in NR V2X Kyocera discussion
R2-1817681 Discussion on Connection-based versus Connectionless NR Sidelink Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X R2-1814464
R2-1817780 Discussion on Groupcast for NR V2X Qualcomm Incorporated discussion Rel-16 FS_NR_V2X R2-1814929
R2-1817783 Discussion on connection setup for V2X unicast communication Qualcomm Incorporated discussion Rel-16 FS_NR_V2X
R2-1817927 On sidelink discovery Ericsson discussion FS_NR_V2X
R2-1817950 Mode-1 Implications for Supporting SL HARQ/CSI feedbacks Ericsson discussion FS_NR_V2X
R2-1817956 Support of Unicast/Groupcast/Broadcast Sidelink V2X Communications Ericsson discussion FS_NR_V2X
R2-1817957 On the Support of HARQ/CSI feedbacks Over Sidelink Ericsson discussion FS_NR_V2X
R2-1818127 Discussion on sidelink unicast communication CMCC discussion
R2-1818165 Discussion on AS level connection for unicast Beijing Xiaomi Software Tech discussion

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R2-1818179 Considerations on NR sidelink unicast and groupcast support for V2X Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1818198 Discussion on HARQ support for NR sidelink Huawei, HiSilicon discussion Rel-16
R2-1818199 Discussion on RLC mode for NR sidelink Huawei, HiSilicon discussion Rel-16
R2-1818205 V2X UE behaviour upon releasing a unicast/groupcast session ITL discussion
R2-1818207 Further consideration on Tx carrier (re)selection in NR V2X ITL discussion
R2-1818470 RLC Mode for Sidelink Unicast and Groupcast Samsung discussion Rel-16 FS_NR_V2X
R2-1818473 Feedback for sidelink unicast and groupcast in NR V2X_ LG Electronics discussion Rel-16 FS_NR_V2X
R2-1818474 LS on Feedback for sidelink unicast and groupcast in NR V2X_ LG Electronics LS out Rel-16 FS_NR_V2X To:RAN1
R2-1818475 Security for sidelink unicast and groupcast LG Electronics discussion Rel-16 FS_NR_V2X
R2-1818476 LS on Security for sidelink unicast and groupcast LG Electronics LS out Rel-16 FS_NR_V2X To:SA3 Cc:SA2
R2-1818477 gNB knowledge about UEs in sidelink unicast and groupcast LG Electronics discussion Rel-16 FS_NR_V2X
R2-1818478 LS on gNB knowledge about UEs in sidelink unicast and groupcast LG Electronics LS out Rel-16 FS_NR_V2X To:SA2 Cc:RAN1
R2-1818480 V2X Sidelink Connection LG Electronics discussion Rel-16 FS_NR_V2X R2-1815425

11.4.2.4 Resource allocation/configuration

Including SL resource allocation mechanism

R2-1816518 Potential RAN2 impacts on gNB scheduled resource allocation for NR V2X Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1816338 Discussion on resource allocation mode for NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1816341 Discussion on Inter-RAT Control for NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1816704 Sidelink resource allocation for unicast vs broadcast operation Intel Corporation discussion Rel-16 FS_NR_V2X R2-1814066
R2-1816771 On NR V2X Resource Allocation Fraunhofer HHI, Fraunhofer IIS discussion Rel-16
R2-1816788 Resource Allocation Features to Support NR V2X Requirements InterDigital discussion Rel-16 FS_NR_V2X
R2-1816789 Resource Allocation in Support of Unicast and Groupcast InterDigital discussion Rel-16 FS_NR_V2X
R2-1816818 Zone-based resource allocation for NR V2X MediaTek Inc. discussion Rel-16 FS_NR_V2X
R2-1816820 UE-assisted resource allocation for NR V2X MediaTek Inc. discussion Rel-16 FS_NR_V2X R2-1813673
R2-1816889 Mode 2 resource allocation CATT discussion
R2-1816897 HARQ Procedure for Mode 1 CATT discussion
R2-1816977 Considerations for Sidelink Resource Pool Design for NR V2X Samsung Electronics discussion Rel-16 FS_NR_V2X R2-1814304
R2-1816980 Consideration on NR V2X mode 1 resource allocation ZTE, Sanechips discussion
R2-1816981 Overall consideration on NR V2X resource allocation ZTE, Sanechips discussion R2-1814168
R2-1816990 Discussion on NR V2X mode 2 alternatives ZTE, Sanechips discussion
R2-1816997 Discussion on LTE and NR Uu based resource allocation and configuration for sidelink ZTE, Sanechips discussion R2-1814171

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R2-1817011 RAT Selection for NR V2X Sidelink Samsung Electronics GmbH discussion Rel-16 R2-1815155

R2-1817034 Scheduling and resource allocation principle MediaTek Inc. discussion

R2-1817109 Discussion on resource allocation mechanism for NR sidelink vivo discussion R2-1813924

R2-1817336 Resource Allocation Consideration Spreadtrum Communications discussion Rel-16

R2-1817680 NR Sidelink resource allocation for V2X communications Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X

R2-1817773 Resource Pool Aspects for NR V2X Interdigital Asia LLC discussion Rel-16

R2-1817786 Cross-RAT configuration and control of LTE/NR Sidelink communication Qualcomm Incorporated discussion Rel-16 FS_NR_V2X

R2-1817948 Bandwidth parts and Resource Pools for NR V2X Ericsson discussion FS_NR_V2X

R2-1817949 gNB-scheduled Resource Allocation for Sidelink Ericsson discussion FS_NR_V2X

R2-1817953 On Latency of mode-1 Sidelink Scheduling Ericsson discussion FS_NR_V2X

R2-1817955 Resource allocation for Enhanced Mobility Ericsson discussion FS_NR_V2X

R2-1818126 Discussion on the SL BSR CMCC discussion

R2-1818200 Potential enhancements for NR Mode 2 Huawei, HiSilicon discussion Rel-16

R2-1818294 Dynamic scheduling for NR sidelink mode 2 LG Electronics Inc. discussion Rel-16 FS_NR_V2X

R2-1818295 Support of broadcast for NR sidelink mode 1 LG Electronics Inc. discussion Rel-16 FS_NR_V2X

R2-1818296 Support of unicast and groupcast for NR sidelink mode 1 LG Electronics Inc. discussion Rel-16 FS_NR_V2X

R2-1818423 Sidelink resource configuration for NR Sidelink LG Electronics Inc. discussion Rel-16 FS_NR_V2X

11.4.2.5 Others

R2-1816520 Initial thinking on potential RAN2 impacts on NR SL synchronization Huawei, HiSilicon discussion Rel-16 FS_NR_V2X

R2-1816973 Bandwidth Parts and Resource Pools for V2X sidelink Huawei, HiSilicon discussion Rel-16 FS_NR_V2X

R2-1818424 Cross-RAT sidelink configuration in MR-DC LG Electronics Inc. discussion Rel-16 FS_NR_V2X

R2-1818425 Cell reselection for NR V2X sidelink communication LG Electronics Inc. discussion Rel-16 FS_NR_V2X

11.4.3 Uu enhancements

Including analysis/evaluation on the need of Uu enhancement, identification of enhancements if any
Including output of email discussion [103bis#39][NR/V2X] e2e delay (Intel)

R2-1816705 Summary of [103bis#39][NR/V2X] e2e Uu delay analysis Intel Corporation report Rel-16 FS_NR_V2X Late

Proposal: It is proposed that RAN2 captures the provided latency analysis in the TP (in the attached annex) as part of the TR.

=> TP is agreed and rapporteur will capture this part into final TP to be sent to RAN1.

R2-1816343 Discussion on LS of multiple UL SPS for NR-V2X OPPO discussion Rel-16 FS_NR_V2X

R2-1816523 SC-PTM support for NR Uu Huawei, HiSilicon discussion Rel-16 FS_NR_V2X

R2-1816793 Uu Enhancements for NR V2X InterDigital discussion Rel-16 FS_NR_V2X

R2-1816968 Uu enhancements for NR-V2X sidelink resource allocation ITRI discussion

R2-1816978 Sidelink Resource Control between LTE V2X and NR V2X Samsung Electronics discussion Rel-16 FS_NR_V2X R2-1814305

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R2-1816983 Uu enhancements for NR V2X ZTE, Sanechips discussion
R2-1817010 Uu Enhancements for NR V2X Samsung Electronics GmbH discussion Rel-16 R2-1815154
R2-1817110 Latency reduction for mode 1 and mode 2 vivo discussion R2-1813925
R2-1817947 Analysis of NR Uu features for eV2X Ericsson discussion FS_NR_V2X
R2-1818201 The enhancement of Uu to control inter-RAT V2X sidelink Huawei, HiSilicon discussion Rel-16
R2-1818202 Discussion on NR support for multiple active UL configured grants Huawei, HiSilicon discussion Rel-16
R2-1818221 Inter-RAT control of sidelink communication MediaTek (Shenzhen) Inc. discussion
R2-1818426 NR Uu enhancements for V2X communication LG Electronics Inc. discussion Rel-16 FS_NR_V2X R2-1815442

11.4.4 RAT/Interface selection

Including RAT/interface selection mechanism
Including output of email discussion [103bis#40][NR/V2X] RAT selection for SL (ZTE)

R2-1816994 Report of email discussion [103bis#40][NR/V2X] RAT selection for SL ZTE, Sanechips report Rel-16 FS_NR_V2X Late

Proposal 1: RAN2 assumes that the candidate RAT(s) with SL should be associated with service type by upper layer.
[Ericsson]: Not sure if service type will identify service QoS requirements in unique. Service type is already used in Rel-15 LTE.
=> Proposal 1 is agreed.

Proposal 2: RAN2 assumes for a given V2X service type, it may be associated with: 1) LTE RAT only, 2) NR RAT only, FFS on 3) LTE or NR RAT and 4) LTE and NR RAT. We can ask SA2 suggestion/guideline on 3) and 4).
=> Proposal 2 is agreed.

Proposal 3: RAN2 assumes Tx profile based approach is considered as baseline for RAT selection of SL. RAN2 is suggested to further discuss the RAN2 impacts of V2X service type and RAT mapping approach.
=> Proposal 3 is agreed.

Proposal 4: For RAT selection of SL, the following criteria could also be considered: RAT availability, UE capability, radio resource condition.
Proposal 5: From RAN2 perspective, both upper layer and AS layer might be involved in RAT selection.

Proposal 6: RAN2 is suggested to further discuss whether RAT selection applies to V2X unicast and groupcast services.
=> RAN2 assumes RAT selection is only applied to V2X broadcast and for any V2X unicast and groupcast service, it is communicated over NR only. We will ask if SA2 has any concern/feedback on it.

Proposal 7: The following factors might be considered for Uu/PC5 interface selection: QoS requirement of V2X service, interface availability, radio resource load status, link quality of PC5 and/or Uu interface.
Proposal 8: UE's upper layer performs the Uu/PC5 interface selection.
=> The availability of Uu/PC5 will be informed to upper layer and the upper layer performs the Uu/PC5 interface selection. FFS on what availability implies, how AS to decide availability of Uu/PC5 and whether we need to specify it.

Agreements
1: RAN2 assumes that the candidate RAT(s) with SL should be associated with service type by upper layer.

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2: RAN2 assumes for a given V2X service type, it may be associated with: 1) LTE RAT only, 2) NR RAT only, FFS on 3) LTE or NR RAT and 4) LTE and NR RAT. We can ask SA2 suggestion/guideline on 3) and 4).

3: RAN2 assumes Tx profile based approach is considered as baseline for RAT selection of SL. RAN2 is suggested to further discuss the RAN2 impacts of V2X service type and RAT mapping approach.

4: RAN2 assumes RAT selection is only applied to V2X broadcast and for any V2X unicast and groupcast service, it is communicated over NR only. We will ask if SA2 has any concern/feedback on it.

5: The availability of Uu/PC5 will be informed to upper layer and the upper layer performs the Uu/PC5 interface selection. FFS on what availability implies, how AS to decide availability of Uu/PC5 and whether we need to specify it.

=> [Offline discussion#717]: TP to capture the above agreements (R2-1818732) and draft LS to SA2 to inform our agreements and ask questions (R2-1818733).
=> “V2X broadcast service” is changed into “V2X SL broadcast transmission” and “V2X unicast and groupcast service” is changed into “V2X SL unicast and groupcast transmissions”
=> Add “It is assumed” in front of “Tx profile-based approach is considered as baseline for RAT selection of SL”
=> TP is agreed with the above changes in R2-1818740.
=> [Comeback Friday]: draft LS (To: SA2 and Cc: RAN3) (ZTE, R2-1819014)

R2-1816344 Discussion on RAT and interface selection ofr NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1816519 Discussion on RAT/interface selection Huawei, HiSilicon discussion Rel-16 FS_NR_V2X Withdrawn
R2-1816702 On RAT selection for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X
R2-1816791 RAT Selection for NR V2X InterDigital discussion Rel-16 FS_NR_V2X
R2-1817785 RAT and interface selection for NR V2X sidelink communication Qualcomm Incorporated discussion Rel-16 FS_NR_V2X R2-1815088
R2-1817929 Interface and RAT selection Ericsson discussion FS_NR_V2X
R2-1818479 PC5 RAT selection LG Electronics discussion Rel-16 FS_NR_V2X R2-1815426

11.4.5 QoS management

Including solutions for QoS management of the radio interface

R2-1817683 Various approaches to SL QoS support in NR V2X Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X R2-1814465
R2-1817924 QoS principles Ericsson discussion FS_NR_V2X
R2-1817776 Discussion on QoS design for NR PC5 communication Qualcomm Incorporated discussion Rel-16 FS_NR_V2X R2-1814930
R2-1816522 Radio bearer configuration and management for NR sidelink Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1816342 Discussion on QoS for NR-V2X OPPO discussion Rel-16 FS_NR_V2X
R2-1816521 QoS support for NR V2X Huawei, HiSilicon discussion Rel-16 FS_NR_V2X
R2-1816703 QoS considerations over SL for NR V2X Intel Corporation discussion Rel-16 FS_NR_V2X R2-1814058
R2-1816770 QoS Management for NR V2X Fraunhofer HHI, Fraunhofer IIS discussion Rel-16
R2-1816790 QoS Management for NR V2X InterDigital discussion Rel-16 FS_NR_V2X
R2-1816899 QoS Management for NR V2X CATT discussion
R2-1816970 QoS index measurement considerations for NR V2X ITRI discussion
R2-1816988 Consideration on QoS management for NR V2X ZTE, Sanechips discussion

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R2-1817012 QoS Management for NR V2X Samsung Electronics GmbH discussion Rel-16 R2-1815158
R2-1817111 Communication range for NR V2X vivo discussion R2-1813926
R2-1817112 Draft LS on communication range for NR V2X vivo LS out To:SA2 Cc:CT1, RAN1
R2-1817114 Congestion control in NR V2X vivo discussion
R2-1817118 Discussion on QoS management for NR V2X Lenovo, Motorola Mobility discussion Rel-16 FS_NR_V2X R2-1814755
R2-1817468 QoS Handling in NR V2X Apple Inc. discussion Rel-16 FS_NR_V2X
R2-1817682 Mobility challenges for NR V2X platooning Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_V2X R2-1814466
R2-1817925 On NR sidelink admission control Ericsson discussion FS_NR_V2X
R2-1817926 On NR sidelink radio bearer Ericsson discussion FS_NR_V2X
R2-1818203 QoS Feedback of NR Sidelink V2X Communications Huawei, HiSilicon discussion Rel-16

11.4.6 Others

R2-1816979 Considerations for Support Mobility for NR V2X Samsung Electronics discussion Rel-16 FS_NR_V2X R2-1814306
R2-1816996 In device coexistence between NR V2X and LTE V2X ZTE, Sanechips discussion R2-1814172

11.5 Study in UE radio capability signalling

(FS_RACS_RAN; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 19; SID: RP-181459)
Time budget: 0.5 TU

11.5.1 Organisational

Including incoming LSs, rapporteur inputs, draft TR, etc

✉ **[104#34][NR/UE Cap SI] UE cap ID signalling options (MediaTek)**
Review the email discussion 103bis#12 considering any new SA2 agreements and update the conclusions from that email discussion if necessary.
Intended outcome: Report to next meeting
Deadline: Monday 2019-02-07

11.5.2 Radio interface signalling optimisations based on using UE capability identity

Including consideration of the interaction of the proposed optimisations with the Rel-15 mechanisms
Including output of email discussion [103bis#12][NR/UE cap SI] UE cap ID signalling options (MediaTek)

R2-1816821 Summary of email discussion [103bis#12][NR/UE cap SI] UE cap ID signalling options (MediaTek) MediaTek Inc. discussion Rel-16 FS_RACS_RAN
R2-1816823 Text proposal based on outcome of email discussino [103bis#12][NR/UE cap SI] UE cap ID signalling options (MediaTek) MediaTek Inc. discussion Rel-16 FS_RACS_RAN
R2-1816431 Consideration on remaining issue of UE capability ID vivo discussion Rel-16 FS_RACS_RAN
R2-1816462 Further Discussion on UE Capability ID based Solution OPPO discussion
=> Revised in R2-1818517
R2-1818517 Further Discussion on UE Capability ID based Solution OPPO discussion
R2-1816463 Discussion on UE Capability Update OPPO discussion
R2-1816819 Delta signalling for UE capability indication MediaTek Inc. discussion Rel-16 FS_RACS_RAN

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R2-1816822 DRAFT LS on Security protection for UE capability ID MediaTek Inc. LS out Rel-16 FS_RACS_RAN To:SA3
R2-1816949 Discussion on the Relation of the Capability ID to Specific Capability Containers CATT discussion Rel-16 FS_RACS_RAN
R2-1817236 TP to ongoing TR for UE cap ID signalling options Nokia, Nokia Shanghai Bell discussion Rel-16 FS_RACS_RAN Late
R2-1817676 Key aspects and signalling procedure for UE capability ID report Huawei Technologies Co. Ltd. discussion Rel-16 FS_RACS_RAN
R2-1817677 Additional aspects for UE capability report Huawei Technologies Co. Ltd. discussion Rel-16 FS_RACS_RAN
R2-1817711 Discussion on some FFS aspects of UE capability ID based capability Intel Corporation discussion Rel-16 FS_RACS_RAN
R2-1817932 Key aspects of UE Capability ID handling VODAFONE Group Plc discussion Rel-16
R2-1817982 RAN Aspects on changes of the UE radio capabilities Ericsson discussion Rel-15 NR_newRAT-Core
R2-1817983 Draft LS on security aspects of various capability ID solution Ericsson LS out Rel-15 NR_newRAT-Core To:SA2
R2-1817984 Further aspects of Capability ID signaling options Ericsson discussion Rel-15 NR_newRAT-Core
R2-1817985 Security Aspects of various SA2 Capability ID Solutions Ericsson discussion Rel-15 NR_newRAT-Core
R2-1817986 Draft LS to SA2 on security aspects of various Capability ID solutions Ericsson LS out Rel-15 NR_newRAT-Core To:SA2
R2-1818334 Consideration to NR UE Capability LG Electronics Inc. discussion Rel-16 FS_RACS_RAN

11.5.3 Radio interface signalling optimisations based on other means

Including optimisations based on e.g. compression, segmentation and including consideration of the interaction of the proposed optimisations with the Rel-15 mechanisms
Including output of email discussion [103bis#28][NR/UE cap SI] UE cap compression TP (Nokia)
Including output of email discussion [103bis#29][NR/UE cap SI] UE cap segmentation TP (Ericsson)

R2-1817235 Output of email discussion [103bis#28] [NR/UE cap SI] UE cap compression TP (Nokia) Nokia, Nokia Shanghai Bell discussion Rel-16 FS_RACS_RAN
R2-1818448 Report on e-mail-discussion on RRC Segmentation Ericsson discussion Rel-15 FS_RACS_RAN Late
R2-1816430 Segmentation awareness in UE and Network vivo discussion Rel-16 FS_RACS_RAN
R2-1816464 Discussion on UE Capability Segmentation OPPO discussion
R2-1816950 Further Consideration on Compression Approach CATT discussion Rel-16 FS_RACS_RAN
R2-1816951 TP on Compression Approach CATT pCR Rel-16 37.873 0.0.1 FS_RACS_RAN
R2-1816952 Consideration on Combination Solutions for Capability Signalling Optimization CATT discussion Rel-16 FS_RACS_RAN
R2-1816953 TP on Combination Solutions for Capability Signalling Optimization CATT pCR Rel-16 37.873 0.0.1 FS_RACS_RAN
R2-1817122 Interactions between legacy nodes and new Rel.16 UE capability mechanism KDDI Corporation discussion
R2-1817256 Performance Evaluation on UE Capability Compression MediaTek Inc. discussion Rel-16 FS_RACS_RAN
R2-1817648 Segmentation of UE Radio Capability information Huawei, HiSilicon discussion Rel-16 FS_RACS_RAN
R2-1817712 Discussion on compression and segmentation usage for RRC messages Intel Corporation discussion Rel-16 FS_RACS_RAN

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R2-1818226 UE Capability Compression Apple discussion Rel-16 FS_RACS_RAN
R2-1818227 UE Capability Segmentation Apple discussion Rel-16 FS_RACS_RAN

Withdrawn

R2-1817234 Open issues in UE capability segmentation and storage Nokia, Nokia Shanghai Bell discussion Rel-16 FS_RACS_RAN Withdrawn

Late

R2-1818449 Further details on RRC segmentation Ericsson discussion Rel-15 FS_RACS_RAN Late

11.5.4 Other

Any other aspects

R2-1816824 Analysis of UE capability size MediaTek Inc. discussion Rel-16 FS_RACS_RAN R2-1813671
R2-1817644 Text Proposal for UE Radio Capability Signaling Size Analysis Huawei, HiSilicon, MediaTek Inc. discussion Rel-16 FS_RACS_RAN R2-1815980
R2-1817646 Estimation of UE radio capabilities size HUAWEI TECH. GmbH discussion Rel-16 FS_RACS_RAN R2-1814602

11.6 Study on NR non-terrestrial network

(FS_NR_NTN_solutions; leading WG: RAN3; REL-16; started: Jun 18; target; Jun 19; SID: RP-181598)
Time budget: 0.5 TU
Documents in this agenda item will be handled in a break out session

11.6.1 General

Including output of email discussion [103bis#33][NR – NTN] (Thales)
Rapporteur input

11.6.2 Requirements and Scenarios

Contributions on overall requirements and scenario prioritization. Key issues and requirement related to one of the areas identified below should be submitted in those AIs.

R2-1816538 Report of email discussion [103bis#33] [NR - NTN] THALES discussion Rel-16 38.821 Late
=> The TP is agreed

Not treated

R2-1817753 Requirements for NTN NR Ericsson discussion Rel-16 FS_NR_NTN_solutions
R2-1818369 NTN architecture and scenario to be prioritized Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_NTN_solutions

11.6.3 User Plane

R2-1818514 Considerations on SDAP in Non-Terrestrial Networks (NTN) Nomor Research GmbH, Thales discussion Rel-16 38.821 Late
- Mediatek asks if we are expecting to not use the reflective QoS
=> The TP is agreed

11.6.3.1 MAC Enhancements

Contributions related to MAC enhancements (e.g. DRX, HARQ, RA enhancements) and any other identified issues

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R2-1818510 Initial Random Access Procedure in Non-Terrestrial Networks (NTN) Nomor Research GmbH, Thales discussion Rel-16 38.821 Late
=> Noted

R2-1817765 On random access for NTN Ericsson discussion Rel-16 FS_NR_NTN_solutions
=> Noted

R2-1818214 RACH capacity analysis in NTN ZTE, Sanechips discussion FS_NR_NTN_solutions
=> Not treated

R2-1817063 RACH capacity analysis in NTN ZTE, Sanechips discussion FS_NR_NTN_solutions Withdrawn
=> Not treated

Discussion on 2-step RACH

- Mediatek thinks we should avoid duplicating work between SIs. We can postpone the discussions until the ideas are more mature. Huawei agrees.
- Sony thinks that we should at least discuss the impacts of NTN
- Thales asks if we can at least capture it that it can be used. Ericsson thinks that the important part is the final report so we can capture it when we discuss.

Agreements:
- Discussion on 2-step RACH will be postponed until the procedures are more stable.

R2-1817757 NR-NTN: HARQ in Satellite Systems Fraunhofer IIS, Fraunhofer HHI discussion

Proposal 1: Study the impact on RAN2 of both options for limited/disabled HARQ as well as enhancing existing HARQ operation for NTN.

- Nomor asks if there is any proposals to reduce the complexity associated with soft buffer. Fraunhofer thinks that we need to consider enhancements per case, for example we can extend soft buffer for LEO only and study other options for other cases.

=> Noted

R2-1818247 Further discussion on MAC impacts in NTN Huawei, HiSilicon discussion Rel-16 FS_NR_NTN_solutions

Proposal 1: RAN2 to study the following impacts on both HARQ options and leave the final decision to RAN1.

Option 1. Extend the number of HARQ processes

- Buffer requirement

Option 2. Disabling HARQ

- Impact on retransmission and reordering.
- Impact DRX mechanism and DRX timers.

Proposal 1a: If both options for HARQ are supported, they should be configurable for different RTD cases.

Proposal 2: RAN2 to study solutions to minimise the steps for scheduling request.

=> Noted

R2-1817764 On HARQ for NTN Ericsson discussion Rel-16 FS_NR_NTN_solutions
=> Noted

Discussion on HARQ

- Nomor thinks that we should assume that for GEO we should disabled. Ericsson thinks that before concluding we can study it.
- Ericsson thinks that extending the number of HARQ processes should be up to RAN1
- Thales thinks that it will be a challenge enhancing HARQ for GEO.

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Agreements:
- Both options (enhancing HARQ and disabling HARQ) will be studied.

R2-1818246 Discussion on timer impacts in NTN Huawei, HiSilicon discussion Rel-16 FS_NR_NTN_solutions

✉ **[103bis#xx][NR – NTN] - Impacts on user plane timers (Nomor)**
Intended outcome:
- Identify timers impacted by RTD and how to handle them
- Outcome: TP capturing the timers
Deadline: Thursday 2019-2-15

✉ **[103bis#xx][NR- NTN] TP on RAN2 agreements (Thales)**
Intended outcome: TP capturing agreements from RAN2#104
Deadline: Thursday 2019-02-15

R2-1818511 Considerations on MAC Timers and on RTD Compensation Offset in Non-Terrestrial Networks (NTN) Nomor Research GmbH, Thales discussion Rel-16 38.821 Late
=> Not treated

R2-1817078 MAC enhancements considering long propagation delay in NTN Sony discussion FS_NR_NTN_solutions
=> Not treated

R2-1817750 On DRX for NTN Ericsson discussion Rel-16 FS_NR_NTN_solutions
=> Not treated

R2-1817318 DRX in NR NTN Spreadtrum Communications discussion Rel-16
=> Not treated

11.6.3.2 RLC Enhancements

Contributions related to RLC reordering (e.g. timers and SN space) and any other identified issues

R2-1818512 Considerations on RLC Control Loops and Timings in Non-Terrestrial Networks (NTN) Nomor Research GmbH, Thales discussion Rel-16 38.821 Late
=> moved from 11.6.3.1
Proposal 1: For NTN RLC AM mode is assumed to be used for DRBs and SRBs for GEO satellite communication links and for LEO satellite communication links in case HARQ is disabled..
Proposal 2: Extend the RLC sequence number (SN) field length and increase the AM_Window_Size for NTN.
- Ericsson wonders if we should consider both HARQ disabled and disabled
- LG thinks that if HARQ is not feasible than RLC AM is also not feasible. LG thinks that it can be even worst as the RLC RTT is even larger than HARQ and we would need even more buffer for RLC and we should just do RLC UM and use PDCP duplication for reliability purpose.
- Mediatek is not sure we can conclude this. We have always assumed that RLC AM is used for SRBs and this would be a very big shift. ZTE sees the use for RLC AM, especially for TCP application
- Lenovo thinks that the main bottle neck is the soft buffer.

=> Noted

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Discussion on performance requirements

- Ericsson thinks that we need to have some guidance on the requirements (e.g. data rates, delays)

✉ **[103bis#xx][NR – NTN] Performance requirements for NTN (Thales)**

- Identify performance requirements (data rates, delay jitter)
- Identify use cases (e.g. eMBB, URLLC, MTC)
- User density per NR cell

2 stage email discussion

- First stage is to identify all metrics needed for WGs to carry out analysis
- Second stage to converge on the numbers

Intended outcome:

Deadline: Thursday 2019-02-16

Agreements:

- All RLC modes are supported.
- Study the need to extend the RLC/PDCP SN and window sizes based on throughput requirements.

Not treated

R2-1817767 RLC for NTN Ericsson discussion Rel-16 FS_NR_NTN_solutions

R2-1818251 Further discussion on RLC/PDCP impacts in NTN Huawei Telecommunication India discussion Rel-16

11.6.3.3 PDCP Enhancements

Contributions related to RLC reordering (e.g. timers and SN space) and any other identified issues

R2-1817766 PDCP for NTN Ericsson discussion Rel-16 FS_NR_NTN_solutions

R2-1818513 Considerations on PDCP Control Loops and Timings in Non-Terrestrial Networks (NTN) Nomor Research GmbH, Thales discussion Rel-16 38.821 Late
=> moved from 11.6.3.1

11.6.4 Control Plane

11.6.4.1 Mobility

Including output of email discussion [103bis#34][NR - NTN] (Ericsson)

Contributions related to mobility scenarios and modeling

Contributions related to mobility enhancements and issues to address

R2-1817754 Report of email discussion [103bis#34] [NR - NTN] Ericsson discussion Rel-16 FS_NR_NTN_solutions

Proposal 1: Satellite beams, satellites or satellite cells are not considered to be visible from UE perspective in NTN SI

- ZTE thinks that it is premature to conclude on this and we should wait for SA2. Ericsson clarifies that this is not related to PLMN but rather identifying the satellite.

Proposal 2: Revise the current definition of satellite cell in TR 38.821 as one of the following:

- ***Satellite beam: A beam footprint formed by satellite.***
- ***Satellite beam: The radio coverage formed by satellite service link.***
- ***Satellite beam: a beam generated by satellite. Its foot print on earth provides radio coverage to UE***

- Nokia prefers the second interpretation. Ericsson is concerned that it is not clear what radio coverage is and we would have to go to RAN4. Fraunhofer thinks that even footprint is not clear.

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Proposal 4: Add text in TR 38.821 stating that association between NR PCI and NR SSBs is left for implementation.
Proposal 8: RAN2 to discuss further the RAN2 impact between constellation assumptions in order to clarify whether a constellation assumption needs to be stated for NTN SI(other than possible performance evaluations)
- Ericsson thinks that the tables we currently have in the TR currently provide parts of the constellations
- Nokia thinks that we need a reference constellation. Ericsson asks what the standards impacts are and we should just pick a worst case scenario. Thales thinks that it would be difficult to select one. Nokia would like to understand if the impacts vary with different constellation.

=> Noted

Agreements:
1. Satellite beams, satellites or satellite cells are not considered to be visible from UE perspective in NTN SI. This does not preclude differentiating at the PLMN level the type of network (e.g. NTN vs. terrestrial). This is up to SA2.
2. Revise the current definition of satellite cell in TR 38.821 and refer to a satellite beam. Definition of satellite beam can be discussed during email discussion.
3. Add text in TR 38.821 stating that association between NR PCI and NR SSBs is left for implementation (i.e. it will not be specified)
4. Consider Rel-15 definitions as a baseline for NTN
5. Both option a and b can be considered in NTN SI with one or multiple SSBs per PCI. The TR will capture a figure for both option.

✉ **[103bis#xx][NR - NTN] Mobility (Ericsson)**
Intended outcome:
- Stage 1: Identify key issues to address for mobility
- Stage 2: Capture solutions identified in contributions for each of the issues

Deadline: Thursday 2019-02-16

R2-1818050 Satellite Ephemeris Data and their Use for Handoff Decisions between Satellites HUGHES Network Systems Ltd discussion Rel-16 Late

Proposal 1. The use of satellite ephemeris, time and UE location shall be considered to make handover.
Proposal 2. Measurement of signal strength can be considered to complement the handover decision based on geometrical calculation from satellite ephemeris, time and UE locations.
- Huawei asks if we can assume that the network knows the UE location. Hughes assumes that the network should know exactly where the satellites are.
- Thales thinks that we can add some of the details of the satellite ephemeris in the TR. Ericsson agrees and everyone should consider this information when discussing mobility.
- LG thinks that we should focus on what and how the UE reports its location.
- Nomor asks if the UE needs to calculate the ephemeris or both the NW and the UE. Hughes explains that the mechanisms are there and how they are done/calculated is up to implementation.

=> Noted

Agreements
1 The details of the satellite ephemeris can be captured in the TR

Not treated

R2-1818372 NTN Mobility aspects for LEO based networks Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_NTN_solutions

R2-1817079 Consideration on mobility impacts of NTN support in NR Sony discussion FS_NR_NTN_solutions

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R2-1818133 Utilization of beam footprint information for mobility management CMCC agenda R2-1815256
R2-1818248 Consideration on mobility management in NTN Huawei, HiSilicon discussion Rel-16 FS_NR_NTN_solutions
R2-1818488 Considerations of mobility for Non-terrestrial Networks ETRI discussion Rel-16 Late
R2-1818333 Signalling Delay in NTN LG Electronics Inc. discussion Rel-16 FS_NR_NTN_solutions R2-1815499
R2-1818376 Further considerations on Mobility impacts for LEO based networks Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_NTN_solutions
R2-1817062 Consideration on the cell definition and NTN mobility ZTE, Sanechips discussion FS_NR_NTN_solutions
R2-1817752 Mobility aspects for NTN NR Ericsson discussion Rel-16 FS_NR_NTN_solutions
R2-1818245 On the relation between satellite beam and NR Cell/SSB Huawei, HiSilicon discussion Rel-16 FS_NR_NTN_solutions
R2-1816281 Mobility issue for NTN system CATT discussion Rel-16 38.821 FS_NR_NTN_solutions
R2-1817080 Location report in NTN Sony discussion Rel-16 FS_NR_NTN_solutions

CP

R2-1816442 Considerations on RRC connection handling in NTN LG Electronics France discussion FS_NR_NTN_solutions
R2-1817763 Impacts of propagation delay on control plane Ericsson discussion Rel-16 FS_NR_NTN_solutions

11.6.4.2 Idle mode

Including tracking area management and update, cell selection/reselection, and paging

Tracking area

R2-1817606 Tracking Area considerations for NTN Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_NTN_solutions

Proposal 1: RAN2 should study how to enable determining the location of the UE with sufficient accuracy for NTN being able to apply the right policies for the UE.
Proposal 2: RAN2 to consider the inclusion of at least two different UE categories for the study to determine location accuracy of the UE: 1) with GNSS support, 2) without GNSS support.
Proposal 3: RAN2 should study mechanisms to enable determining the required location accuracy pertaining to the UE capability/category.
Proposal 4: RAN2 should study mechanisms to determine the UE position as a second/extra step during the tracking area procedures.
=> Noted

Discussion

- Ericsson thinks that this is quite SA2 specific and is already possible to identify the country of the UE. Nokia agrees that it would be good to get some guidance on what we can assume.
- LG asks what aspects of tracking area should RAN2 discuss and thinks that we can wait for some RAN3/SA2 progress
- Ericsson agrees but it would be good to know what we want to know
- Vodafone is concerned how to track the tracking area. Ericsson thinks that we should split the discussions in two, LEO and GEO
- LG thinks that for GEO we can follow the existing mechanisms.
- Thales explains that there are two issues, UE location with respect to the country that is perhaps not a RAN2 issue and the tracking area and paging.
- ZTE thinks that there are two solutions, what we have today as a baseline and other solutions to optimize.
- Thales considers a third solution – no tracking area. LG explains that the tracking area is used for tracking UE location and is not sure what it means.

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Agreements:
1. RAN2 to study solutions for two different type of UE categories 1) with GNSS support, 2) without GNSS support
2. For GEO, the current tracking area management is assumed as a baseline
3. For LEO with moving beams study fixed and moving tracking area solutions

Not treated

R2-1817751 Tracking area management and update for NTN Ericsson discussion Rel-16 FS_NR_NTN_solutions

R2-1817061 Consideration on TA management in NTN ZTE, Sanechips discussion FS_NR_NTN_solutions

R2-1818250 Consideration on paging mechanism in NTN Huawei, HiSilicon discussion Rel-16 FS_NR_NTN_solutions

R2-1818593 NR-NTN: Tracking Areas Management Fraunhofer IIS, Fraunhofer HHI Late

Paging

R2-1816717 Challenge on the paging performance in NTN ZTE Corporation, Sanechips discussion
- Vodafone asks if this numbers are realistic. Thales explains that we will discuss the user density in the email discussion.

=> Noted

Not treated

R2-1816447 Discussion on the Issue for paging in NTN LG Electronics Inc. discussion FS_NR_NTN_solutions R2-1815336

R2-1818132 Considerations on UE mobility state estimation and NTN cell movement CMCC agenda

R2-1818249 Consideration on NTN impact on cell selection and MSE Huawei, HiSilicon discussion Rel-16 FS_NR_NTN_solutions

11.6.4.3 Other

11.7 Study on NR Industrial Internet of Things (IoT)

(FS_ NR_IIOT; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 19; SID: RP-182090)
Time budget: 1 TU
Documents in this agenda item will be handled in a break out session

11.7.1 General

Rapportur input etc.

LS in

R2-1816235 LS on redundant transmission for URLLC (S2-1811555; contact: Huawei) SA2 LS in Rel-16 FS_5G_URLLC To:RAN1, RAN2, RAN3
- We will attempt to reply.

⇒ **Noted**

R2-1818991 LS on multiple active configured grant configurations (contact: Docomo) R1 LS in
- Nokia wonders if this is for SPS
- Docomo confirms this is just for UL.
- Huawei think we need to discuss overlapping CG.

⇒ **Noted**

TS

R2-1817266 TR 38.825 v0.0.1 Nokia, Nokia Shanghai Bell draft TR Rel-16 38.825 0.0.1 FS_NR_IIOT

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⇒ **Noted**

Requirements

R2-1817267 TP on TSN requirements Nokia, Nokia Shanghai Bell pCR Rel-16 38.825 0.0.0 FS_NR_IIOT

⇒ **Revised**

R2-1817907 Overview of the requirements and the study scope for R16 IIOT Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT

⇒ **Noted**

R2-1817176 Use Cases, Scenarios and Evaluation of Requirements Ericsson discussion Rel-16 FS_NR_IIOT

⇒ **Noted**

DISCUSSION
- Availability requirements are related to time.
- Ericsson think we should have packet reliability also
- CATT think availability is well defined by SA2
- Ericsson think that also use cases from Ericsson document could be added.
- Intel think by this we have selected a few requirements from SA1 and think we culd discuss by email. Nokia think the selected ones are the most stringent one.

Offline (126), TP on TSN requirements, Nokia + Ericsson scenarios, Revision of Nokia document in R2-1818779 (Nokia)

R2-1818779 TP on TSN requirements Nokia, Nokia Shanghai Bell pCR Rel-16 38.825 0.0.0 FS_NR_IIOT

⇒ **Agreed**

QoS Monitoring

R2-1817258 Reply LS to SA2 on QoS monitoring Huawei, HiSilicon LS out Rel-16 FS_NR_IIOT To:SA2 Cc:RAN3

R2-1817761 QOS parameter monitoring Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IIOT

R2-1817762 Reply LS on QoS Monitoring Lenovo, Motorola Mobility LS out Rel-16 FS_NR_IIOT To:SA2 Cc:RAN3, SA5

Other

R2-1817171 Industrial IoT with NR Ericsson discussion Rel-16 FS_NR_IIOT

11.7.2 TSN

R2-1818122 Scheduling Enhancements for TSN traffic CMCC discussion

11.7.2.1 Accurate reference timing

Accurate reference timing: Delivery & related process (e.g. SIB delivery or RRC delivery to UEs, Multiple Transmission points)

R2-1816360 PTP 1588 support in 5GS/TSN CATT discussion Rel-16 FS_NR_IIOT

DISCUSSION
- Chair wonders if the conclusion is that we could base everything on reference time, and all RAN2/AS need to care about is the accurate reference. CATT confirms that this is the intention.
- Ericsson and Nokia think the paper describes examples that may not be applicable.

⇒ **Noted**

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R2-1818254 Time Synchronisation for IIOT NTT DOCOMO, INC. discussion Rel-16 FS_NR_IIOT
DISCUSSION
R1
- Oppo think that dedicated signalling is not needed.
- Ericsson think dedicated signalling is needed for better accuracy, security. Huawei agrees.
- Samsung are also not sure about dedicated signalling.
- Nokia think the accuracy number is R1 scope.
- Vivo think we should inform R1. Intel think they will check minutes.

⇒ **We reuse the LTE approach for time distribution by broadcast RRC as a baseline, Unicast is FFS**

⇒ **0.25us granularity can be starting point, FFS finer granularity than 0.25us**

R2-1817173 Clock Accuracy Realization at UE Ericsson discussion Rel-16 FS_NR_IIOT
R2-1816690 Accurate reference time distribution MediaTek Inc. discussion Rel-16 FS_NR_IIOT
R2-1818123 Support for Accurate Reference Timing Delivery CMCC discussion
R2-1816764 Reference timing provisioning for TSN Intel Corporation discussion Rel-16 FS_NR_IIOT
R2-1816871 Time Synchronization in air-interface for IIoT CATT discussion Rel-16 FS_NR_IIOT
R2-1816935 Discussion on the time synchronization within RAN for supporting IIOT vivo discussion R2-1814272
R2-1816936 (Draft) LS on time reference provided via SIB9 in NR vivo LS out To:RAN1

R2-1817172 Overview of UE Time Synchronization Methods Ericsson discussion Rel-16 FS_NR_IIOT
R2-1817247 Time Synchronization for IIoT OPPO discussion Rel-16
R2-1817268 Support for Clock Synchronization Service Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT
R2-1817274 Discussion on the accurate reference timing Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT
R2-1817812 Consideration on accurate reference timing delivery in TSN for NR-IIoT ZTE Corporation discussion Rel-16 FS_NR_IIOT
R2-1817914 Time Synchronization for TSN Qualcomm Incorporated discussion
R2-1818468 Reference Timing Delivery for Industrial IOT Samsung discussion Rel-16 FS_NR_IIOT

11.7.2.2 Scheduling Enhancements

Enhancements e.g. for scheduling, to satisfy QoS for wireless Ethernet when using TSN traffic patterns as specified in TR 22.804.

R2-1817270 NR support for TSN traffic patterns Nokia, Nokia Shanghai Bell pCR Rel-16 38.825 0.0.0 FS_NR_IIOT
P1
- Vivo agrees on short values but not the same as the CG.
- Intel think we don't need SPS for DL. Nokia think that power consumption is not a problem and SPS would work well.
- Intel think that for DL we can meet the latency requirements with dynamic scheduling. Huawei agrees.
- Ericsson point out that also for DL we need reliability and PDCCH contributes to unreliability.

⇒ **FFS if we use DL SPS**

✉ **[104#36][NR/IIOT] TSN Traffic Patterns (Nokia)**
Intended outcome: Based on R2-1817270, identify the issues and solution directions including a TP if possible

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Deadline: Thursday 2019-02-07

R2-1817511	General LCP enhancement for IIoT	Huawei, HiSilicon	discussion	Rel-16 FS_NR_IIOT
R2-1818359	BSR enhancement for predictable but varying TSN traffic	LG Electronics Inc.	discussion	FS_NR_IIOT
R2-1816722	Benefits of periodicity and offset awareness for scheduling of TSN traffic	Qualcomm Incorporated	discussion	
R2-1817815	Consideration on QoS enhancements when using TSN for NR-IIoT	ZTE Corporation	discussion	Rel-16 FS_NR_IIOT
R2-1816365	Multiple Configured Grant Configurations	CATT	discussion	Rel-16 FS_NR_IIOT
R2-1818358	Scheduling enhancement for TSN traffic	LG Electronics Inc.	discussion	FS_NR_IIOT
R2-1816940	SPS for periodic deterministic traffic	vivo	discussion	
R2-1818122	Scheduling Enhancements for TSN traffic	CMCC	discussion	
R2-1817174	On support for deterministic periodic traffic with configured grants	Ericsson	discussion	Rel-16 FS_NR_IIOT
R2-1817248	Scheduling enhancements for TSN network	OPPO	discussion	Rel-16
R2-1817257	Discussion on dynamic scheduling for TSN	National Taiwan University	discussion	Rel-16 FS_NR_IIOT
R2-1817570	Discussion on the scheduling enhancement to support IIoT traffic	Huawei, Hisilicon	discussion	Rel-16 FS_NR_IIOT
R2-1818236	Scheduling enhancements for TSN traffic	Intel Corporation	discussion	Rel-16 FS_NR_IIOT
R2-1818309	Consideration on traffic attributes	LG Electronics	discussion	FS_NR_IIOT
R2-1818357	Potential enhancement on Configured Grant for IIOT	LG Electronics Inc.	discussion	FS_NR_IIOT
R2-1816361	RAN scheduling impacts from TSN requirements	CATT	discussion	Rel-16 FS_NR_IIOT

11.7.2.3 Ethernet Header Compression

Analysis of the benefits and the scenario (e.g. what are the formats and size of Ethernet frame to be considered, are VLAN fields included, protocol termination etc.). Definition of the requirements for a new header compression.

DISCUSSION without presentations
- LG think we should maybe not go into details on the fields. Will we define a compression algorithm?

⇒ **The TR should include: some expected performance numbers, identify the fields that can be compressed/removed?, which frame structures that will be addressed, the method how to specify in a WI phase (e.g. ROHC addition or other), other aspects FFS**

✉ **[104#37][IIOT] Ethernet Header Compression (Ericsson)**
Intended outcome: TP for next meeting, including some expected performance numbers, identify the fields that can be compressed/removed?, which frame structures that will be addressed, the method how to specify in a WI phase (e.g. ROHC addition or other).
Deadline: Thursday 2019-02-07

R2-1817572	Discussion on the Ethernet header compression	Huawei, HiSilicon	discussion	Rel-16 FS_NR_IIOT
R2-1817269	Ethernet Header Compression for TSN	Nokia, Nokia Shanghai Bell	discussion	Rel-16 38.825 FS_NR_IIOT

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R2-1816689 Ethernet Header Compression MediaTek Inc. discussion Rel-16 FS_NR_IIOT
R2-1816765 Ethernet header compression Intel Corporation discussion Rel-16 FS_NR_IIOT
R2-1816362 Ethernet Header Compression CATT discussion Rel-16 FS_NR_IIOT
R2-1816877 Ethernet header compression Samsung Research America discussion FS_NR_IIOT
R2-1816937 Scenarios on Ethernet header compression for supporting IIOT vivo discussion R2-1814273
R2-1816938 Ethernet MAC header compression vivo discussion
R2-1817175 Ethernet Header Compression Ericsson discussion Rel-16 FS_NR_IIOT
R2-1817249 Ethernet_Header_Compression OPPO discussion Rel-16
R2-1818121 Consideration on Ethernet Header Compression CMCC discussion
R2-1817913 RoHC based Header Compression for Ethernet Qualcomm Incorporated discussion
R2-1816939 Protocol architecture for I-IOT vivo discussion

11.7.2.4 Other

E.g. Performance evaluation of TSN requirements (TR 22.804 clause 8.1).

R2-1816363 5GS and TSN integration CATT discussion Rel-16 FS_NR_IIOT
R2-1818341 Recovery of discarded PDCP PDUs due to integrity verification failure LG Electronics Inc. discussion Rel-16 FS_NR_IIOT

11.7.3 Intra-UE prioritization and multiplexing

Intra-UE prioritization and multiplexing, Including output of email discussion [103bis#41][NR/IIoT] Intra-UE prioritization (Nokia)

General

R2-1817579 Email Discussion Report on [103b-41] Intra-UE Prioritization Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT Late

⇒ **Noted**

R2-1817580 LS Draft for Intra-UE Prioritization Nokia, Nokia Shanghai Bell LS out Rel-16 FS_NR_IIOT Late

⇒ **Revised**

DISCUSSION on the 2 tdocs above

- IDT think that scenario 6 had a lot of support. Nokia would like to deprioritize this. IDT think that this is R1 case and R1 could work on this if they have time. Nokia point out that R1 has no time allocation. QC agree on scenario 6. Vivo agree and support also scenario 10
- Mediatek agrees with Nokia that we need to prioritize
- Lenovo point out that also scenario 1 is only R1 impact.
- Oppo wonders about SR prioritization on the details.
- LG think most of scenario 1-5 is R1.

⇒ **We will work on Scenario 1, 2, 3, 4, 5**

⇒ **In addition, tell R1 that there was also some support for scenarios 6 and 10, which we assume is only R1 scope.**

R2-1818780 LS Draft for Intra-UE Prioritization Nokia, Nokia Shanghai Bell LS out Rel-16 FS_NR_IIOT Late

- Vivo suggest to remove details on “CA” and on “different serving cell” for the scenario 6. Nokia think we should stick to what we had in the email discussion. Nokia thikn we should stick with the description.
- Ericsson think we should clarify the situation in RAN2 e.g. say “there was some support in RAN2 to study bla bla bla.. “

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- Intel think we should refer to “mixed traffic with different priorities” instead of eMBB and URLLC. And “high priority transmission” instead of “URLLC transmission”.
- IDT wonders about the second part of the action. Do we really need feedback? Nokia think we don’t need to ask for feedback.

⇒ **Change “RAN2 has also identified following two scenarios that RAN1 may consider to study” to “In addition there was some support in RAN2 to study the following two scenarios”**

⇒ **Change in 6, “eMBB and URLLC” to “mixed traffic with different priorities / reliability requirements”.**

⇒ **Change in 7 “URLLC transmission” to “transmission related to high priority data”**

⇒ **We don't ask R1 for feedback on scenarios 6 and 7**

⇒ **Revision/final version in R2-1818795, make the agreed changes, is approved unseen.**

R2-1817581 TP on Intra-UE Prioritization Scenarios Nokia, Nokia Shanghai Bell pCR Rel-16
38.825 0.0.0 FS_NR_IIOT Late

⇒ **Revised**

Offline (127), on LS and TP (Nokia), Revisions in R2-1818780/81

c

- Chair wonders if “Control Channel” would always refer to a phy channel? It seems a significant number of proposals is also about MAC internal priority of Control and Data which is not related specifically to a channel.
- Chair: We likely need to interpret the wording “control channel” liberally, e.g. meaning “control information” etc
- Intel think that the TP mention solution directions which we have not agreed.
- CATT think we could just copy-paste from the LS. Nokia think that in the LS we also mention work-split, which is not suitable for the TR.

⇒ **Remove the text on solutions in the end for each scenario.**

⇒ **Change “control channel” to “control information”**

⇒ **Change “Data channel” to “data”**

Revision in R2-1818797

R2-1818797 TP on Intra-UE Prioritization Scenarios Nokia, Nokia Shanghai Bell pCR Rel-16
38.825 0.0.0 FS_NR_IIOT Late

⇒ **Agreed**

✉ **[104#38][IIOT] Intra UE prioritization UL Data Data (Interdigital)**
Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)
Deadline: Thursday 2019-02-07

✉ **[104#39][IIOT] Intra UE prioritization UL Control Data (Huawei)**
Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)
Deadline: Thursday 2019-02-07

✉ **[104#40][IIOT] PDCP Duplication Enhancement (Ericsson)**
Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)
Deadline: Thursday 2019-02-07

R2-1816364 Intra-UE Prioritization and Multiplexing for IIoT CATT discussion Rel-16 FS_NR_IIOT

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R2-1816778 Scheduling aspects of UL intra-UE prioritization InterDigital discussion Rel-16 FS_NR_IIOT
R2-1816942 Interaction between MAC and PHY for intra-UE prioritization vivo discussion
R2-1816943 Prioritize UL grant for URLLC service vivo discussion
R2-1816987 Intra-UE prioritization and multiplexing between URLLC and eMBB III discussion Rel-16 FS_NR_IIOT
R2-1817070 Consideration on intra-UE prioritization/multiplexing ZTE, Sanechips discussion NR_newRAT-Core
R2-1817505 Intra-UE DL/UL Prioritization Lenovo, Motorola Mobility discussion Rel-16 FS_NR_IIOT
R2-1818137 Discussion on L2 functions reuse in IIoT CMCC discussion R2-1815275

UL Data Data Prioritization (2, 3)

R2-1817507 Collision between Configured and Dynamic grants Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT
R2-1817076 UL Intra-UE Pre-emption and Resource conflicts Sony discussion Rel-16 FS_NR_IIOT
R2-1817178 On prioritization between overlapping configured and dynamic grants Ericsson discussion Rel-16 FS_NR_IIOT
R2-1818285 Prioritization between overlapping dynamic and configured grant Qualcomm Inc discussion Rel-16 FS_NR_IIOT
R2-1817250 Intra-UE Prioritization for IIoT OPPO discussion Rel-16
R2-1818109 Intra-UE UL retransmission resource preemption LG Electronics Inc. discussion FS_NR_IIOT

UL Control Prioritization (4, 5)

R2-1817177 On scheduling request overlapping with UL-SCH Ericsson discussion Rel-16 FS_NR_IIOT
R2-1816783 Intra-UE prioritization for mixed traffic InterDigital discussion Rel-16 FS_NR_IIOT
R2-1818233 Consideration on intra-UE prioritization Apple discussion Rel-16
R2-1817077 UL Logical Channel Prioritization and Multiplexing Sony discussion Rel-16 FS_NR_IIOT
R2-1817340 On handling of URLLC traffic during measurement gaps in uplink Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT R2-1815340
R2-1816944 SR cancellation for URLLC service vivo discussion

RAN1 Prioritization (1, 6, 10)

R2-1816784 Intra-UE prioritization for inter-cell transmissions InterDigital discussion Rel-16 FS_NR_IIOT

Other

R2-1818101 Prioritize CG transmission over SR/RA procedure LG Electronics Inc. discussion FS_NR_IIOT
R2-1818406 Intra-UE prioritization for critical packets within a RB/QoS flow LG Electronics Inc. discussion Rel-16 FS_NR_IIOT

11.7.4 Data duplication and multi-connectivity

General

R2-1816366 Considerations on duplication support for IIoT CATT discussion Rel-16 FS_NR_IIOT

Duplication Efficiency

R2-1818140 Consideration of resource-efficient PDCP duplication CMCC discussion
R2-1816367 Resource efficiency considering PDCP duplication CATT discussion Rel-16 FS_NR_IIOT
R2-1817179 Resource efficient data duplication Ericsson discussion Rel-16 FS_NR_IIOT

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R2-1817317 BSR operation with CA packet duplication Sequans Communications discussion Rel-16 FS_NR_IIOT R2-1815180

R2-1817324 Enhancements for PDCP Duplication Spreadtrum Communications discussion Rel-16

R2-1817512 General enhancements for PDCP Duplication Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT

R2-1818360 Consideration of the PDCP duplication LG Electronics Inc. discussion Rel-16 FS_NR_IIOT

R2-1817582 Resource Efficient PDCP Duplication Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT

R2-1818108 TM DRB for IIOT LG Electronics Inc. discussion Rel-16 FS_NR_IIOT

Multi-leg duplication

R2-1817583 On PDCP Duplication Enhancements with Combination of DC and CA Nokia, Nokia Shanghai Bell pCR Rel-16 38.825 0.0.0 FS_NR_IIOT

R2-1818466 Analysis of Duplication with More Than 2 Legs Samsung discussion Rel-16 FS_NR_IIOT

R2-1817071 Considerations on PDCP duplication with multiple copies ZTE, Sanechips discussion NR_newRAT-Core

R2-1818339 Discussion on the RLC modes for PDCP duplication LG Electronics Inc. discussion Rel-16 FS_NR_IIOT

R2-1816941 Consideration on the multi-leg PDCP duplication vivo discussion

R2-1817180 Multiple duplicate handling Ericsson discussion Rel-16 FS_NR_IIOT

R2-1817251 Discussion on data duplication OPPO discussion Rel-16

R2-1817510 PDCP Duplication with More than two RLC Channels Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT

Higher layer multi-connectivity

R2-1817508 Discussion on the Higher Layer Multi-Connectivity Huawei, HiSilicon discussion Rel-16 FS_NR_IIOT

⇒ **Noted**

R2-1817509 Reply LS on redundant transmission for URLLC Huawei, HiSilicon LS out Rel-16 FS_NR_IIOT To:SA2 Cc:RAN1, RAN3
Revised in R2-1818986

R2-1818986 Reply LS on redundant transmission for URLLC Huawei, HiSilicon LS out Rel-16 FS_NR_IIOT To:SA2 Cc:RAN1, RAN3
DISCUSSION

- Mediatek think that most SA2 solutions except 4 may have impact to RAN. CATT agrees and think that coupling duplication in the CN and in Uu doesn't make sense and are not needed. CATT think that solution 7 seems nice as it decouples these things. Samsung also have similar view, and think we need to inform that RAN has a similar mechanism.
- Huawei think that SA2 know this, and think that we should not try to down-select for SA2. Huawei point out that most of SA2 solutions address network reliability.
- MTK think that SA1 requirements can be met by existing mechanisms.
- CMCC think that network reliability is addressed, and no more information is needed except reply to the SA2 questions in the LS.
- Samsung think we need to mention additionally current solutions for URLLC.
- CATT think we should state that RAN2 would favour solutions that leverage existing RAN based solutions. Nokia would agree to this.

⇒ **Will reply to SA2 questions**

⇒ **Mention that AS URLLC solutions address Uu reliability, and we don't think that the SA2 proposals additionally enhances the Uu reliability.**

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⇒ **Mention that RAN2 would favour solutions that leverage existing RAN based solutions, such that As impact is small.**

Offline (128), revised DRAFT LS in R2-1818787, based on R2-1818986 (Huawei)

R2-1818787 Reply LS on redundant transmission for URLLC Huawei, HiSilicon LS out Rel-16 FS_NR_IIOT To:SA2 Cc:RAN1, RAN3

⇒ **LS is approved, final version in R2-1818796**

R2-1818576 Discussion on SA2 LS on redundant transmission for URLLC Ericsson discussion

R2-1818577 [DRAFT] Reply LS on redundant transmission for URLLC Ericsson GmbH, Eurolab LS out Rel-16 FS_5G_URLLC To:SA2 Cc:RAN1, RAN3

R2-1817584 Discussion of Responses to SA2 LS on NRG Solutions Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_IIOT

R2-1817252 Discussion on SA2 redundant transmission for URLLC OPPO discussion Rel-16

R2-1817253 [Draft] LS on SA2 redundant transmission for URLLC OPPO LS out Rel-16 FS_NR_IIOT To:SA2; Cc:RAN1, RAN3

R2-1816721 Draft Reply LS on redundant transmission for URLLC MediaTek Inc. LS out Rel-16 FS_5G_URLLC To:SA2

R2-1818135 More consideration on PDCP status report in IIoT CMCC discussion

11.8 Study on NR Positioning Support

(FS_NR_pos; leading WG: RAN1; REL-16; started: Jun 18; target; Mar 19; SID: RP-182155)
Time budget: 0.5 TU

11.8.1 Organisational

Including incoming LSs, skeleton TR, rapporteur inputs, etc

R2-1816755 RAN2 scope and work plan on NR positioning SID Intel Corporation discussion Rel-16 FS_NR_pos

- Intel think few companies have addressed the IoT aspect of the objectives.
- Ericsson think we can consider signalling reduction aspects, and consider how positioning was supported for NB-IoT.

=> Noted

R2-1816757 Summary on NR positioning discussion in RAN1 Intel Corporation discussion Rel-16 FS_NR_pos

- Nokia think the RAN1 E2E latency requirements in RAN1 are still in square brackets so we can't conclude yet. Qualcomm think the network latency has not yet been analysed and in LTE it would not be possible to meet this 1s requirement.
- T-Mobile think it is important that we focus on regulatory requirements first.
- CATT think RAN2 will need to do the E2E latency evaluation. Intel think RAN2 can evaluate but we should not set the required

=> Noted

R2-1816758 Summary on NR positioning discussion in SA2 Intel Corporation discussion Rel-16 FS_NR_pos

=> Revised in R2-1818573

R2-1818573 Summary on NR positioning discussion in SA2 Intel Corporation discussion Rel-16 FS_NR_pos

- CATT think we need to discuss the LMF in RAN2 and inform SA2. Qualcomm also agree this needs to be discussed in RAN2
- Nokia think LMF in RAN might be in RAN2 domain but SA2 are also discussion so we need to coordinate

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Working assumption
1: Rel-15 positioning architecture is the baseline for Rel-16 (for evaluation for proposed changes)

=> Offline discussion to work on the scope of possible email discussion to the next meeting to progress the work (Offline discussion 88, Intel)

R2-1819049 The scope of possible email discussion for Rel-16 NR positioning discussion Intel Corporation Rel-16 FS_NR_pos
=> Email discussion agreed as described in the paper

11.8.2 Architecture and protocol aspects

Architecture

R2-1816955 Consideration on Supporting Local LMF in NR Positioning R16 CATT discussion Rel-16 FS_NR_pos
- Intel ask what the E2E delay is expected with this LMF in RAN architecture. CATT this this needs to be evaluated.
- Ericsson think it adds complicate that LPP would be terminated in 2 places and we should avoid this complication.
- Qualcomm think the intent is that RRC would be used but carrying LPP information. Also think local LMF is a poor terminology.
- Nokia think there would be some latency improvement put probably we also have the client located at the RAN
- CMCC think this architecture is being discussed in SA2 as well. Support the proposal to address latency issue and think it is also needed for some industrial use cases so the positioning information is retained in the industrial location.
- LG is concerned about the different architecture for R15 and R16
- MediaTek think LMF selection will need to be discussed by SA2
- Intel think we should focus on the RAN2 impact such as the protocol that would be used but E2E delay is difficult for RAN2. Qualcomm, agree that RAN2 need to look at the impact to RRC. Qualcomm also see the scalability issue as a benefit for this function in the RAN
- ZTE agree with the proposal but want to clarify it will also support TBS

Agreements
1 RAN2 will study the RAN2 protocol impacts associated with supporting location management functionality in RAN
2 RAN2 expect SA2 to consider the E2E delay aspects of supporting location management functionality in RAN

R2-1816954 Consideration on NR Positioning R16 CATT discussion Rel-16 FS_NR_pos

R2-1816961 Integrated architecture for positioning ZTE Corporation discussion Rel-16

R2-1817100 Consideration on NR positioning architecture for LCS Huawei, HiSilicon discussion Rel-15 FS_NR_pos

R2-1817898 NG-RAN Positioning Architecture and Procedures Qualcomm Incorporated discussion

R2-1817723 Study on enhancement to the 5GC location services Ericsson discussion Rel-16

Protocol

R2-1816759 Protocol design for NR positioning in Rel-16 Intel Corporation discussion Rel-16 FS_NR_pos
- Qualcomm is ok with the proposal
- Nokia also feel that reuse of LPP is ok but think we need to be careful how the spec is structured to make it clear which methods are used for each RAT

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- Huawei have the same view not to make a new spec for NRPP but think the LPP terminology aspect is strange. Qualcomm think we do not need to worry about the terminology as LPP is used in R15.

Agreements
1 LPP is reused and extended to support the new NR RAT dependent positioning methods (that are discussed in the scope of this SI)
2 RAN2 assume that NRPPa is reused to support new NR RAT dependent positioning methods (this is a RAN3 decision)

R2-1817101 Functional interfaces protocol and procedures for NR positioning Huawei, HiSilicon discussion Rel-15 FS_NR_pos

R2-1817018 Consideration on Reusing Rel-15 NR Positioning Architecture and Protocols vivo discussion Rel-16 FS_NR_pos

R2-1816815 Protocol selection between UE and LMF MediaTek Inc. discussion Rel-16 FS_NR_pos

R2-1818185 NPP protocol for NR positioning Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_pos

R2-1817900 LPP Alternatives for NR Positioning Qualcomm Incorporated discussion

R2-1816760 Draft LS on Rel-16 NR positioning Intel Corporation LS out Rel-16 FS_NR_pos To:SA2, RAN1, RAN3

RAN as LCS client

R2-1818992 Reply-LS on Location Service exposure to NG-RAN (S1-183340; contact: Ericsson) SA1 LS in Rel-16 FS_NR_pos To:SA2, RAN2 Cc:RAN3

R2-1817724 Discussion on Use cases for Location Aware Functionality in RAN Ericsson discussion Rel-16

- Qualcomm think if there is a location function in the RAN then all these use cases will be automatically supported but can't see why the RAN should be able to send a request to the CN for a location.
- Intel think first question is whether the information is useful and the second whether the RAN gets the info from a RAN location function or from the CN
- MediaTek think we need to focus on whether the use cases exist.
- CMCC support to have RAN as LCS client
- Nokia support he various use cases and think if we have LMF in RAN the RAN could consume the information. Huawei have the same understanding that there could be some possible use cases.

=> Respond to SA2 that there are use cases where it is useful for the RAN to have the location information about the UE. RAN2 still needs to study if there are use case for the RAN to act as an. Other details of the LS can be discussed offline.

R2-1817734 [DRAFT] Reply LS on Location Service exposure to NG-RAN Ericsson LS out Rel-16 To:SA2 Cc:SA1,RAN3

=> Revised in R2-1818997 (Offline discussion 89)

R2-1818997 [DRAFT] Reply LS on Location Service exposure to NG-RAN Ericsson LS out Rel-16 To:SA2 Cc:SA1, RAN3

=> Fix release to Rel-16

=> Approved in R2-1819099

R2-1816756 Use case for RAN as client Intel Corporation discussion Rel-16 FS_NR_pos

R2-1818183 LCS exposure to NG-RAN Nokia, Nokia Shanghai Bell discussion Rel-16 FS_NR_pos

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R2-1817696 Draft response LS on Location Service exposure to NG-RAN Intel Corporation LS out Rel-16 FS_NR_pos, FS_eLCS To:SA2 Cc:SA1, RAN3

Other

R2-1816510 Enhance E-CID positioning with SSB information ZTE Corporation discussion Rel-16

R2-1816550 Support beam sweeping OTDOA ZTE Corporation discussion Rel-16

R2-1816972 Signaling of Additional UE geo information in NR ITRI discussion

R2-1817102 Consideration on the commercial use cases in NR positioning Huawei, HiSilicon discussion Rel-15 FS_NR_pos

R2-1817640 Considerations on NR Positioning Protocol ESA, u-blox AG, Telefonica discussion Rel-16 38.855 FS_NR_pos

R2-1817737 Idle mode positioning solutions Ericsson discussion Rel-16

R2-1817739 RAT dependent NR positioning solutions Ericsson discussion Rel-16

R2-1817899 Combined Downlink and Uplink NR Positioning Procedures Qualcomm Incorporated discussion

R2-1817901 Broadcast of Location Assistance Data by NG-RAN Qualcomm Incorporated discussion

R2-1817902 On Demand Transmission of PRS for NR Qualcomm Incorporated discussion

Late

R2-1818555 Consideration on NR positioning architecture CMCC discussion

11.8.3 Other

R2-1816816 Prioritisation of positioning methods for NR Rel-16 MediaTek Inc. discussion Rel-16 FS_NR_pos

R2-1817081 Discussion on OTDOA NR Positioning , based on RAN1 tdoc Sony discussion Rel-16 FS_NR_pos

R2-1817642 Text Proposal for section 7.2 of TR 38.855 ESA, u-blox AG, Telefonica discussion 38.855 FS_NR_pos

R2-1817733 Discussion on positioning assistance data broadcast Ericsson discussion Rel-16

R2-1817736 RAT independent and hybrid NR positioning solutions Ericsson, ESA discussion Rel-16

12 Rel-16 LTE Work Items

12.1 Additional MTC enhancements for LTE

(LTE_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; target; Dec 19; WID: RP-181878)
Time budget: 2 TU
Documents in this agenda item will be handled in a break out session
Some sub-items in 12.1 and 12.2 may be treated jointly.

12.1.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

12.1.2 Mobile-terminated (MT) early data transmission (EDT)

MT Early Data transmission for MTC and NB-IoT is treated jointly under this AI.

R2-1816635 General considerations in MT EDT Ericsson discussion NB_IOTenh3-Core, LTE_eMTC5-Core
Proposal 1 RAN2 should discuss MT EDT options considering at least battery life, resource efficiency, security, reliability, impact on core network aspects.

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Proposal 2 MT EDT should support security and reliability for DL data transmission.

Proposal 3 For MT EDT, DL data are transmitted in in Msg4 for both UP and CP CIoT Optimizations. DL data transmission before Msg4 is excluded.

- LG supports proposals 1 and 2.
- Intel and MediaTek support proposals 1, 2 and 3.
- Huawei wonders how to consider the impact on CN aspects. Huawei does not support proposal 3.
- Sierra Wireless does not support proposal 3.
- QC thinks proposals 1 and 2 are agreeable, but do not agree with proposal 3. Gemalto agrees with QC regarding proposals 1 and 2 and think further study is needed for proposal 3.
- Sequans thinks use cases should rather be considered.
- Nokia thinks use cases need to be identified first.
- QC and Huawei thinks there is no need to consider impact on CN as evaluation criteria but it can be discussed to identify any issues that may be relevant. Ericsson would like to keep that as one of the criteria. Intel and LG agree with Ericsson regarding keeping such criteria.
- MediaTek thinks CN impact related aspects should be considered.
- Ericsson explains that this does not mean that there should not be any impact to the CN, it is rather to have it as a criteria to consider whether/how the impact would be.

R2-1816408 General aspects of MT-EDT Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core
Proposal 1: The main use case for MT-EDT is small DL data which can be transmitted in one transport block.

Proposal 2: Both small DL data with and without UL feedback should be supported.

Proposal 3: Security needs to be guaranteed for MT-EDT. The solution can be different for CP and UP solutions.

Proposal 4: MT-EDT solution with the highest power consumption gain should be prioritised.

Proposal 5: Latency optimization can be considered in MT-EDT design on the condition that there is no drawback on power consumption.

- LG supports proposals 1, 2, and 3.

R2-1817046 Downlink EDT Scenarios Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_eMTC5-Core

R2-1817910 MT-initiated DL EDT Qualcomm Incorporated discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core

R2-1818210 Mobile-terminated Early Data Transmission MediaTek Inc. discussion Rel-16

R2-1816634 Mobile-terminated early data transmission Ericsson discussion NB_IOTenh3-Core, LTE_eMTC5-Core

R2-1816636 Draft LS on Mobile-terminated Early Data Transmission Ericsson LS out NB_IOTenh3-Core, LTE_eMTC5-Core To:RAN3, SA2, CT1

R2-1817611 Mobile Terminated EDT for CP and UP solutions Intel Corporation discussion Rel-16 LTE_eMTC5-Core

R2-1816409 Overview of MT EDT options Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core

R2-1816884 Options comparison for MT EDT ZTE Corporation discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core

R2-1817045 Analysis of Downlink EDT options Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_eMTC5-Core R2-1814415

R2-1818051 Discussion on MT EDT options LG Electronics UK discussion Rel-16

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R2-1818054	MT EDT using Msg4	LG Electronics UK	discussion	Rel-16
R2-1818164	Efficient and configurable DL EDT	Sierra Wireless, S.A.	discussion	Rel-16
R2-1816467	MT EDT Data Reception Options	Gemalto N.V.	discussion	Rel-16
R2-1816424	MT EDT Reception Options	Gemalto N.V.	discussion	Late

Agreements
- MT EDT are evaluated at least based on battery life, network resource efficiency, security, reliability and potential impact on core network.
- MT-EDT is intended for DL data which can be transmitted in one transport block.
- Use cases that require DL data transmission with or without UL data transmission as a response should be supported for MT-EDT.

✉ **[104#49][eMTC & NB-IoT R16] MT MDT (Huawei)**
To evaluate the solution options based on the agreed criteria (Huawei)
Intended outcome: Email discussion report to next meeting
Deadline: Thursday 2019-02-07

12.1.3 UE-group wake-up signal (WUS)

UE-group wake-up signal (WUS) for MTC is treated jointly with NB-IoT under AI 12.2.3. Do not use this AI for any item that can be discussed jointly.

12.1.4 Transmission in preconfigured resources

Transmission in preconfigured resources for MTC is treated jointly with NB-IoT under AI 12.2.4. Do not use this AI for any item that can be discussed jointly.

12.1.5 Scheduling multiple DL/UL transport blocks

Scheduling multiple DL/UL transport blocks with or without DCI for SC-PTM and unicast
Scheduling multiple DL/UL transport blocks for MTC and NB-IoT is treated jointly under this AI.

R2-1816410 Scheduling of multiple DL/UL transport blocks Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core
- Ericsson wonders if the intention is to exclude any of the options discussed in the contribution.
- Sierra Wireless wonders whether it would be possible to know if the UEs interested in a particular multicast supports this feature.
- QC thinks this is not possible unless UEs report whether there is support.
- Sierra Wireless wonders if supporting both options would make sense. Huawei thinks this would benefit the UEs that support.
- Sierra Wireless thinks benefit w r t power consumption is not expected to be significant, so this is rather about saving network resources. Ericsson agrees.
-

⇒ **RAN2 intends to support separate/shared SC-MTCH transmission.**

R2-1816637 Scheduling enhancement Ericsson discussion LTE_eMTC5-Core

Proposal 1 Multiple scheduling targets unicast transmission for UE in connected mode.

- QC wonders if this would mean EDT is considered. Ericsson explains that the intention was not to consider EDT, but that can be FFS.

Proposal 2 UEs in connected mode are configured with multiple scheduling mode via dedicated RRC signalling.

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- QC thinks this makes sense, but it depends on the mechanism to be specified in RAN1.
- Huawei explains that if the UE supports the feature there may not be a need to configure.
- Sierra Wireless explains that RAN1 intends to introduce a new DCI format which will then be up to RAN2 to decide on how the configuration should be done.

Proposal 3 UEs report their capability of supporting multi-TB scheduling to the network using the capability reporting procedure.

Proposal 4 After being configured with multiple scheduling mode, UE should start to monitor multi-TB DCI format(s) which could indicate one or multiple TBs being scheduled.

Proposal 5 Introduce a scheduling scheme indication to SC-MTCH information transmitted in SC-MCCH, to support multiple scheduling for SC-MTCH.

R2-1816543 Scheduling of multiple DL/UL transport blocks Qualcomm Incorporated discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core R2-1813957

Agreements
- Multiple TB scheduling is supported for UEs in connected mode. It is FFS if it is supported for EDT.
- UEs in connected mode are configured with multiple TB scheduling via dedicated RRC signalling assuming that a new DCI format is introduced. This is pending RAN1 agreement.
- UEs report capability to indicate support of multiple TB scheduling in connected mode.

12.1.6 Quality report in Msg3

R2-1816918 Quality report in Msg3 Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core
Proposal1: Before deciding whether channel quality report in Msg3 is introduced for MT-EDT, RAN2 needs to wait for more progress on the discussion of MT-EDT procedures.

- Intel wonders why EDT is supposed to be different. Huawei explains that the procedure can be different depending on the outcome of the EDT discussion.

Proposal2: Quality report in Msg3 is introduced for non-EDT.

- QC thinks an UL grant with a larger TB size can be provided but this would mean legacy UEs would need to do the padding.
- Intel thinks group B can also be considered.
- Ericsson thinks Msg3 size should less of concern in LTE-M.

Proposal 3: The measurement of more than one narrow band per cell may be reported.

- Ericsson wonders if this can be agreed in RAN2.
- QC thinks the UE may not able to report the measurement from a different narrowband during connection establishment.
- Samsung thinks this would have an impact on power consumption and thus not preferred.

Proposal 4: RAN2 considers MAC CE and/or RRC message to report the channel quality in Msg3.

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✉ **[104#50][eMTC R16] Quality report in Msg3 (Huawei)To progress the discussion on (Huawei)**

To progress the discussion on:
which narrowband(s) to measure and report
how to provide the report, i.e. MAC or RRC
Intended outcome: Email discussion report to next meeting
Deadline: Thursday 2019-02-07

R2-1817613	DL Quality reporting in Msg3	Intel Corporation	discussion	Rel-16	LTE_eMTC5-Core
R2-1817557	Support of quality report in Msg3 for MTC	Ericsson	discussion	Rel-16	LTE_eMTC5-Core
R2-1816545	Downlink channel quality reporting in MSG3 for eMTC	Qualcomm Incorporated	discussion	Rel-16	LTE_eMTC5-Core

Agreements
- RAN2 waits for progress on the discussion of MT-EDT before deciding on whether channel quality report in Msg3 is introduced for EDT.
- Channel quality report in Msg3 is introduced for non-EDT.

12.1.7 MPDCCH performance improvement using CRS

R2-1816638 MPDCCH performance improvements Ericsson discussion LTE_eMTC5-Core

Proposal 1 CRS for improving MPDCCH channel estimation can also be used for receiving paging, random access response and for monitoring SC-MCCH and SC-MTCH in idle mode.

- QC wonders whether this should be discussed in RAN1. Ericsson confirms that the intention was to trigger the discussion.
- Ericsson explains that support in idle mode has already been agreed, but details are FFS.

Proposal 2 Using CRS for improving MPDCCH channel estimation is enabled/disabled in SIB2.

- Huawei thinks SIB2 would be appropriate.
- ZTE prefers SIB1 considering that configuration for paging is in SIB2 and such information should be provided earlier.
- Ericsson thinks this should not matter as long as it is provided before or along with the paging configuration.
- ZTE wonders whether the configuration is expected to change frequently. If that is the case it would be better to provide it in SIB1-BR. Gemalto thinks there is no need to add everything in SIB1-BR unless the motivation is good enough.

Proposal 3 A UE capability for support of using CRS for improving MPDCCH channel estimation is defined.

- Nokia thinks it can be needed.
- ZTE supports the proposal.
- Intel thinks it is required at least for connected mode.

R2-1816919 MPDCCH performance improvement using CRS Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

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Proposal1: The UE reports support for CRS for improving channel estimation on MPDCCH.

Proposal2: The UE reports support for CRS for improving channel estimation on MPDCCH in Msg3.

- Intel wonders about the motivation. Huawei explains that this could help the network to use less number of repetitions.
- ZTE agrees with the intention, but thinks that such information can already be retrieved in the network.
- Nokia agrees with ZTE and thinks that this may not help much.

R2-1817782 Further consideration on MPDCCH performance improvement in eMTC ZTE Corporation discussion Rel-16 LTE_eMTC5-Core

Proposal 1: It's suggest to use SIB1 to carry the enable indication and the corresponding power offset configuration for using CRS to improve MPDCCH performance.

Proposal 2: If proposal 1 is agreed, CRS for improving channel estimation on MPDCCH can be used for other SIBs acquisition, paging detection and RAR detection in initial random access.

Proposal 3: Whether to use CRS for MPDCCH performance improvement in unicast can be enabled by dedicated CRS power offset configuration in RRC signaling.

- QC wonders who decides the offset.
- ZTE thinks this should be decided by RAN1, but relevant signalling should be introduced by RAN2.
- QC wonders why search spaces should be different.
- Huawei does not see the need for dedicated configuration.
- QC wonders whether it should always be assumed that the number of repetitions is reduced if the UE supports CRS.
- Chair thinks for broadcast it should be enough if it is indicated by the network and for unicast it should be enough if the network knows whether the UE supports the feature, i.e. so that number of repetitions can be reduced.

Agreements
- CRS for improving channel estimation on MPDCCH is configured via SIB2. This agreement can be revisited if RAN2 identifies that it would be more reasonable to configure it via SIB1-BR. It is FFS whether configuration would implicitly mean to enable the feature.
- UEs report capability to indicate support of using CRS for improving MPDCCH channel estimation.
- It is FFS if enabling/disabling is needed for the UE.

12.1.8 Improvements for non-BL UEs

CE mode A and B improvements for non-BL UEs among "enhancements to idle mode mobility", "UE demodulation performance requirements for 2 RX antennas and full duplex FDD", "Dual layer DL reception", "Feedback based on CSI-RS", "ETWS/CMAS in connected mode"

R2-1816544 Support of ETWS/CMAS by non-BL UE operating in CE mode Qualcomm Incorporated discussion Rel-16 LTE_eMTC5-Core R2-1813958

R2-1816549 Draft LS on USS direct indication for ETWS/CMAS for eMTC Qualcomm Incorporated LS out Rel-16 LTE_eMTC5-Core To:RAN1

R2-1816920 CE mode A and B improvement for non-BL UEs Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

R2-1816921 Draft LS on the ETWS/CMAS notification in connected mode Huawei, HiSilicon LS out Rel-16 LTE_eMTC5-Core To:RAN1

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R2-1817612 Support of ETWS/CMAS for non-BL UE operating in CE mode Intel Corporation discussion Rel-16 LTE_eMTC5-Core

R2-1816639 ETWS and CMAS in connected mode for LTE-M Ericsson discussion LTE_eMTC5-Core

R2-1817937 Supporting ETWS/CMAS reception in Connected mode Samsung discussion LTE_eMTC5-Core

12.1.9 Stand-alone deployment

Enable the use of LTE control channel region for DL transmission (MPDCCH/PDSCH) to BL/CE UEs

R2-1816640 Standalone enhancements for LTE-MTC Ericsson discussion LTE_eMTC5-Core

R2-1816922 Use of LTE Control Channel Region for DL transmission Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

R2-1817760 Use of LTE control channel region for DL transmission ZTE Corporation discussion Rel-16 LTE_eMTC5-Core

12.1.10 Mobility Enhancements

Improving the DL RSRP and, RSRQ measurement accuracy, through use of RSS, relaxation of RRM measurements for serving cell for UEs using WUS for at least low mobility UEs

R2-1817538 Use of RSS for measurement improvements Huawei, HiSilicon discussion Rel-16 LTE_eMTC5-Core

Proposal 1: RAN1 should be informed that the signalling overhead introduced by signalling the agreed parameters per cell is excessive, and should consider which parameters can be carrier specific.

- Gemalto wonders how it would work if it is carrier specific.
- Ericsson wonders whether this is already available in SIB2. Huawei explains that this is only for the serving cell.
- Sierra Wireless thinks this is a trade-off, so it will limit the flexibility for configuration.
- Intel wonders how many bits that would mean so that an optimization would be required. It would good to do the math first.
- Ericsson thinks it would be beneficial to check it with RAN1.

⇒ **An LS is sent to inform RAN1 that the overhead introduced by signalling agreed parameters per cell is excessive, and ask which parameters are carrier specific for potential optimization.**

Proposal 2: RAN2 should consider ways in which to optimise the signalling of RAN1 parameters to reduce the signalling overhead.

Proposal 3: A new SIB is introduced for signalling RSS measurement parameters.

R2-1817539 draft LS on RSS based measurements signalling Huawei LS out Rel-16 LTE_eMTC5-Core To:RAN1

⇒ **Remove "and initial access time, and impacts the"**

✓ **The draft LS is approved with the changes above in R2-1818662.**

R2-1817554 RSS for measurement improvements in LTE-MTC Ericsson discussion Rel-16 LTE_eMTC5-Core

⇒ **Noted.**

R2-1816641 Relaxation of RRM measurements for UEs using WUS Ericsson discussion LTE_eMTC5-Core R2-1814345

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Proposal 1 Ensure that RRM relaxed monitoring does not deteriorate the performance of low mobility BL/CE UEs.

Proposal 2 Send LS to RAN4 to ask whether serving cell measurement relaxation at least for low mobility UEs is feasible. If feasible, RAN4 can work on defining the criteria.

- QC wonders if RAN4 should initiate such considering that they are the leading WG and what low mobility UE is. Intel agrees and proposed to wait for RAN4.

⇒ **RAN2 will wait for RAN4 to progress.**

R2-1816642 [DRAFT] LS on RRM measurement relaxation for Cat-M UEs configured with WUS Ericsson LS out Rel-16 LTE_eMTC5-Core To:RAN4

12.1.11 Coexistence with NR

Study NR and LTE specifications to identify possible issues related to coexistence of MTC with NR

12.1.12 Other

R2-1816643 Temporary SI densification Ericsson discussion NB_IOTenh3-Core, LTE_eMTC5-Core R2-1814347

12.2 Additional enhancements for NB-IoT

(NB_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; target; Dec 19; WID: RP-181674)
Time budget: 2 TU
Documents in this agenda item will be handled in a break out session
Some sub-items in 12.1 and 12.2 may be treated jointly.

12.2.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

R2-1817412 RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC Document Rapporteur (BlackBerry) other Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core

⇒ **Noted**

✉ **[104#27][NB-IoT/eMTC R16] RAN2 agreements (Blackberry)**
Update the RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC (Blackberry)
Intended outcome: Endorsed document in R2-1818633
Deadline: Monday 2018-11-26

12.2.2 Mobile-terminated (MT) early data transmission (EDT)

Mobile-terminated Early Data transmission for NB-IoT is treated jointly with MTC under AI 12.1.2. Do not use this AI for any item that can be discussed jointly.

R2-1818210 Mobile-terminated Early Data Transmission MediaTek Inc. discussion Rel-16

12.2.3 UE-group wake-up signal (WUS)

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

R2-1817048 Analysis of Group WUS Options Nokia, Nokia Shanghai Bell discussion Rel-16 NB_IOTenh3-Core

- Mediatek wonder how e.g. paging frequency or traffic pattern information is determined. Nokia thinks one option could be similar to UE differentiation information from MME. Huawei think there could be other ways e.g. based on eDRX cycle length, or by operator.

- Qualcomm think that paging frequency based might not provide a lot of benefit in practise, and service based is unclear how to make it work. The most practical way is UE-ID based only. Intel agree and think UE just needs to know the group/UE ID. LG agree, and think it is not easy to define service so prefer UE-ID based only.
- Huawei think "paging frequency" could be called probability to be clearer.
- ZTE thinks DRX length based is already supported in Rel-15, and service based could be difficult to map service and sub-group because of so many types of service and might result in non-uniform grouping. Huawei think paging probability is different to DRX length, but both of these options show that service related solutions are possible.
- Ericsson think we need to decide what kind of parameters to use, and also think service based will be difficult to define – it would need involvement from other WGs.
- Sony thinks paging is usually MME triggered and we are trying to reduce false wake-up probability, so it could be beneficial to attempt to avoid waking up UEs too frequently which have a lower paging frequency/probability and paging frequency is something that can be predicted in some cases. Nokia agree, their proposal is not to replace UE-ID but rather use UE-ID and service type in addition, paging rate could be considered as part of service type.
- Sequans think we need to consider other ways on top of UE-ID, based on solutions and should not rule out now. Fraunhofer agree that service based may be difficult but we should still consider further as this could be beneficial for UE power consumption.
- Gemalto think that UE-ID is practical, and other options should only be considered when we see a feasible solution.
- Nokia think it should be fairly simple to use paging frequency/probability, and think we should consider feasibility of the solutions and think the traffic model referenced in this paper can be used to show that service based can be useful.
- Intel thinks that for anything other than UE-ID, it is not clear how it works.
- ZTE thinks service based may contradict with the legacy distribution and wonder if the legacy PO mechanism is avoided. Huawei don't think legacy is impacted.
- Nokia think that there is a benefit to service based and think we should further analyse the feasilbiity. Qualcomm don't think there is a benefit.
- Fraunhofer think RAN1 are defining how many groups, and are waiting to see what RAN2 want to do with it. Huawei think the number of groups is related to sequence design and reliability so is up to RAN1.

> ⇒ **Further discuss the benefit and feasibility of using service based parameters for grouping in addition to UE-ID**

✉ **[104#42][NB-IoT R16] Analyse the benefit and feasibility of service based group WUS solutions (Nokia)**
Companies can provide solutions, with benefit analysis (e.g. based on reference traffic model) and feasibility.
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

R2-1816546 UE grouping on wake-up signal channel Qualcomm Incorporated discussion Rel-16
NB_IOTenh3-Core, LTE_eMTC5-Core R2-1813960

- ZTE think that the proposals 3+ 4 are related to coexistence with the legacy mechanism, but should wait for RAN1 progress.
- Nokia think this depends on whether Rel-16 is impacted by Rel-15 WUS and thinks Rel-15 WUS should not wake up the Rel-16 UE. Qualcomm thinks the intention is not to map to more than one WUS group but congestion on one group should be avoided, so there should be a way to distribute. Mediatek think UE should not monitor both R15 and R16 WUS, but think that this is also RAN1 related.
- Qualcomm think the Rel-16 UE has to support Rel-15 WUS to work in the legacy eNB, but there should be a distribution mechanism. Sony agree, and support p3.
- Huawei wonders whether p3/4 work together or are separate. Qualcomm clarify the p3 is about Rel-16 and p4 is about also using legacy WUS. Huawei thinks p3 depends on the type of grouping – if we have only UE-ID then it would be uniform, for it to be non-uniform then we

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would need to consider more inputs to grouping e.g. paging rate. Huawei wonder what the benefit of p4 is.
- Ericsson thinks this may depend on the number of available groups, and we might need to consider including R15 if we don't have enough groups. Ericsson agree that if we have UE-ID it would be uniform.

> ⇒ **Can discuss group distribution further, including Rel-15/16 mechanism interaction, once we know more about number of groups and more about the grouping solution (e.g. service based parameters)**
>
> ⇒ **RAN2 will decide on the UE to WUS group mapping**

R2-1817634 Further consideration on UE-group wake-up signal ZTE Corporation discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core

R2-1818218 General aspects of group WUS Ericsson discussion LTE_eMTC5-Core, NB_IOTenh3-Core

R2-1816400 Group based wake-up signal Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core

R2-1816436 UE-Group Wake-Up Signal Fraunhofer IIS, Fraunhofer HHI discussion Rel-16 LTE_eMTC5, NB_IOTenh3

R2-1816956 UE-Group WUS in NB-IoT MediaTek Inc. discussion

R2-1817047 Analysis of GWUS and common WUS Nokia, Nokia Shanghai Bell discussion Rel-16 NB_IOTenh3-Core

R2-1817085 UE grouping for WUS Sony discussion Rel-16 NB_IOTenh3-Core

R2-1817564 Consideration on wake up signal Lenovo, Motorola Mobility discussion Rel-16 NB_IOTenh3-Core

R2-1817637 Sub-group ID calculation based on UE_ID for UE-group WUS ZTE Corporation discussion Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core

R2-1818238 UE_ID based WUS grouping Ericsson discussion LTE_eMTC5-Core, NB_IOTenh3-Core

12.2.4 Transmission in preconfigured resources

Including support for transmission in preconfigured resources in idle and/or connected mode based on SC-FDMA waveform for UEs with a valid timing advance.

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

R2-1816401 Uplink transmission in dedicated pre-configured resource Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core
- Mediatek think p1-3 are more observations than proposals. Huawei think it may be useful to capture these for focusing on the main use cases.
- Sierra wireless think there are more use-cases than just small data, for example infrequent but large amount of data and think this would be treated separately to EDT. Ericsson think that for D-PUR small data is the main case, but the case Sierra wireless has in mind may be better addressed with S-PUR. Huawei think that for large data it is better to move to connected, and for D-PUR this is mainly for small data. Intel agree with Ericsson but wonder why we need to limit to small data. Mediatek think D-PUR is mainly for small data but maybe no need to limit to this.
- Nokia think it might be better to clarify that the D-PUR is for single TB transmission.
- ZTE think the amount of data is maybe not critical.
- Qualcomm think that we should first consider that size of data doesn't matter as already we have 1000bits TBS maximum. LG also think we don't need to impose this limit. Ericsson think it also doesn't need to be limited.
- Sierra wireless, LG, Gemalto thinks the D-PUR is always periodic. ZTE, Ericsson think it can also be one-shot. Qualcomm, Intel think there is no benefit of one-shot. Nokia think there can be issues with one-shot e.g. in case of transmission failure. Ericsson think the benefit of one-shot is more efficient use of NW resources.

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- Nokia think that even periodic D-PUR is not forever so one-shot is kind of a subset of periodic and no need to limit the configuration, so the period should have a duration, and this might result in only a single transmission.
- Huawei think the one-shot case provides flexibility to NW. Ericsson agree with Huawei and Nokia.
- Sequans think the usefulness of one-shot depends how it would be defined.
- Blackberry wonder if the one-shot could be triggered by the device.

> ⇒ **The eNB configures the dedicated preconfigured uplink resources via RRC dedicated signaling.**
>
> ⇒ **Methods for eNB to obtain information used to help configuring the dedicated preconfigured uplink resource to the UE is FFS.**
>
> ⇒ **Periodic D-PUR with duration is supported**
>
> ⇒ **FFS if one shot D-PUR is supported.**
>
> ⇒ **Release of the dedicated preconfigured resources are supported, details for NW triggered and UE triggered are FFS.**

✉ **[104#43][NB-IoT R16] To progress on D-PUR (Sierra Wireless)**
Primary scope is to progress the FFS captured for D-PUR
Secondary scope, to progress further details on solutions addressing the agreements
Intended outcome: email discussion report
Deadline: Monday Thursday 2019-02-07

R2-1816644	Transmission in preconfigured uplink resources	Ericsson	discussion	NB_IOTenh3-Core, LTE_eMTC5-Core
R2-1816993	Main issues for transmission over preconfigured dedicated resource in IDLE	ZTE Corporation	discussion	Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core
R2-1817053	Analysis for transmission over preconfigured shared resource in IDLE	ZTE Corporation	discussion	Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core
R2-1816957	Early Transmission in Preconfigured UL Resources in NB-IoT	MediaTek Inc.	discussion	
R2-1817043	Signaling Aspects for transmission in preconfigured resources	Nokia, Nokia Shanghai Bell	discussion	Rel-16 NB_IOTenh3-Core R2-1814413
R2-1817054	Analysis for transmission over preconfigured shared resource in IDLE	ZTE Corporation	discussion	Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core Late
R2-1817277	Transmission in preconfigured resources for MTC and NB-IoT	Fujitsu	discussion	Rel-16 NB_IOTenh3-Core, LTE_eMTC5-Core
R2-1817911	Supporting UL data transmission on preconfigured resources in IDLE	Qualcomm Incorporated	discussion	Rel-16 LTE_eMTC5-Core, NB_IOTenh3-Core
R2-1817940	Pre-configured UL Resources Design Considerations	Sierra Wireless, S.A.	discussion	Rel-16
R2-1818052	Support for shared preconfigured resources in RRC_IDLE	LG Electronics UK	discussion	Rel-16
R2-1818053	Discussion on transmission in preconfigured resources in RRC_IDLE	LG Electronics UK	discussion	Rel-16

12.2.5 Scheduling multiple DL/UL transport blocks

Including scheduling multiple DL/UL transport blocks with or without DCI for SC-PTM and unicast

Scheduling multiple DL/UL transport blocks for NB-IoT is treated jointly with MTC under AI 12.1.5. Do not use this AI for any item that can be discussed jointly.

12.2.6 Network management tool enhancement

Including SON support for ANR, Random access performance and RLF report

R2-1817558 Discussion on UE reporting the SON parameters Ericsson discussion Rel-16 NB_IOTenh3-Core

SON/ANR

- Gemalto wonder whether UE should setup a connection just for reporting purpose. Ericsson don't think we should require UE to report immediately but only if the buffer becomes full.
- Gemalto wonder should CGI should be reported for all configured cells? Ericsson think only the strong cell could be reported.
- Huawei don't think any of the parameters need to be reported immediately. Some of the parameters are a bit questionable too.
- Qualcomm think some information might be ok in Msg3, but UE should not be required to connect just for reporting.
- Sequans think EDT is one option to consider, but for reporting immediate reporting is better even for UE power consumption.
- Chair wonders what the purpose of the ANR report is given there is no handover in NB-IoT.
- Huawei thinks it is more for MDT purpose rather than neighbour relation table maintenance. Nokia agree, and think immediate report is not really needed for this. EDT for example is one possible way to report but it should not be triggered for SON report. LG agree. QC also think SON should not trigger EDT/connection establishment. Ericsson think the trigger could be optional. LG think EDT could be useful.

RACH report

- Huawei, Qualcomm support proposal 3/4 for both NB-IoT and eMTC. Nokia are fine with the proposal but wonder whether we should update the WID. Qualcomm think we don't need to, we have extended agreements in the past when seen beneficial.

SON/ANR:

⇒ **RAN2 understanding is that the purpose of SON/ANR reporting in NB-IoT is network optimisation rather than immediately updating neighbour relations like with LTE ANR, and is therefore not time critical.**

⇒ **SON reporting does not trigger RRC connection establishment/resume**

- **FFS whether this includes EDT.**

⇒ **SON information can be reported along with EDT, FFS what and how.**

RACH report:

⇒ **In addition to legacy parameters for RACH reporting, the first selected resource pool (E.g. CE level, EDT) is included in the RACH report. This agreement is also applicable for eMTC**

✉ **[104#44][NB-IoT R16] SON/ANR report for NB-IoT (Huawei)**
How and when the measurements, configuration, reporting are done.
Intended outcome: email discussion report.
Deadline: Thursday 2019-02-07

✉ **[104#45][NB-IoT R16] RACH Report (Qualcomm)**

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How and what to report.
Intended outcome: email discussion report.
Deadline: Thursday 2019-02-07

✉ **[104#46][NB-IoT R16] RLF Report (Ericsson)**
Purpose and content of RLF report.
Intended outcome: email discussion report.
Deadline: Thursday 2019-02-07

R2-1816404 Discussion on ANR report Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core
R2-1817908 RACH report enhancements for SON Qualcomm Incorporated discussion Rel-16 NB_IOTenh3-Core
R2-1816403 Discussion on RLF report Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core
R2-1816402 Discussion on RACH report Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core
R2-1816427 ANR considerations for NB-IoT Gemalto N.V. discussion
R2-1817042 SON measurements and reporting for NB-IoT Nokia, Nokia Shanghai Bell discussion Rel-16 NB_IOTenh3-Core R2-1814412
R2-1817501 ANR Reporting Protocol for NB-IoT Sequans Communications discussion
R2-1817549 Reporting of RA and RLF in NB-IOT SON Lenovo, Motorola Mobility discussion Rel-16 NB_IOTenh3-Core
R2-1817561 ANR procedure in NB-IOT Lenovo, Motorola Mobility discussion Rel-16 NB_IOTenh3-Core
R2-1817784 Further consideration on RLF and ANR report ZTE Corporation discussion Rel-16 NB_IOTenh3-Core
R2-1817807 Consideration on necessary information for RACH report ZTE Corporation discussion Rel-16 NB_IOTenh3-Core
R2-1817808 Network management tool related measurement report procedure ZTE Corporation discussion Rel-16 NB_IOTenh3-Core

12.2.7 Improved multi-carrier operation

Including support of Msg3 quality reporting for non-anchor access.
Including signalling to indicate on a non-anchor carrier for paging a set of subframes which will contain NRS even when no paging NPDCCH is transmitted.

R2-1817895 Support for quality report in Msg3 for non-anchor access in NB-IoT ZTE Corporation discussion Rel-16 NB_IOTenh3-Core

- Qualcomm think that the carrier selection occurs first then the preamble is selected and this needs to be done before measurements, so observation 1 isn't accurate. ZTE think carrier selection is part of PRACH resource selection. Huawei think RAN4 decided for Rel-14 we can do the measurement before T1 or between MSg1/3 and it's up to UE implementation. Nokia don't think there is a need for a separate measurement, Msg2 NPDCCH measurement can be used.
- Ericsson think what we did for anchor should be followed for non-anchor. Huawei don't agree with Ericsson, as this can complicated MAC procedures – at every RACH attempt the RRC message would need to be re-built. Huawei think we should re-design the reporting to avoid major UE impact. Qualcomm think in this case, we would either need to use different reporting mechanisms for anchor and non-anchor, or always use the new approach instead. ZTE think we should try to re-use the current mechanism.

> ⇒ **Re-use the code points defined in Rel-14**
>
> ⇒ **Study the impact of re-using the Rel-14 RRC reporting mechanism and consider whether a MAC mechanism should be used instead.**

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R2-1817555 Support of quality report in Msg3 for non-anchor access in NB-IoT Ericsson discussion Rel-16 NB_IOTenh3-Core

R2-1816547 Channel quality reporting for non-anchor carriers Qualcomm Incorporated discussion Rel-16 NB_IOTenh3-Core R2-1813961

R2-1816405 Support of Quality report in Msg3 for non-anchor access Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

Signalling to indicate on a non-anchor carrier for paging a set of subframes which will contain NRS even when no paging NPDCCH is transmitted.

R2-1816548 Non-anchor carrier measurements for RRM Qualcomm Incorporated discussion Rel-16 NB_IOTenh3-Core R2-1813962

- Huawei supports in general. Huawei asks whether p8 means to measure more than one carrier simultaneously? Qualcomm clarifies that it would be up to UE when exactly to measure.
- Ericsson thinks we need to ask RAN4 about much of this.
- Huawei thinks the feature would be enabled on all paging carriers in a cell. Ericsson think this should be up to RAN1.

> ⇒ **RAN2 further study how to support the use case of enabling measurements in non-anchor carrier while reducing measurement on anchor carrier.**

R2-1816406 Presence of NRS on a non-anchor carrier for paging Huawei, HiSilicon discussion Rel-16 NB_IOTenh3-Core

R2-1817556 Supporting Presence of NRS on a non-anchor carrier for paging in NB-IoT Ericsson discussion Rel-16 NB_IOTenh3-Core

12.2.8 Inter-RAT cell selection

Including power efficient NB-IoT mechanism which would assist idle mode inter-RAT cell selection for NB-IoT to and from LTE, LTE-MTC and GERAN

R2-1816659 Reply LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell selection (R6-180181; contact: Nokia) RAN6 LS in Rel-16 NB_IOTenh3 To:RAN2 Cc:RAN

⇒ **Noted**

Stage 2 discussion

R2-1816958 Inter-RAT Cell Selection for NB-IoT MediaTek Inc. discussion

- Huawei has a similar understanding in general. For proposal 7 is the intention to signal something in GERAN? Mediatek clarify the intention is to avoid signalling in GERAN. Nokia think we should check whether operators think we should update GERAN or not. Qualcomm think we can leave to RAN6. Also in NB-IoT we anyway have the neighbour information, so UE could just use this.
- Qualcomm think that the cell selection parameters broadcast in p4/5 is unnecessary because UE anyway has to read from the target. Huawei think this can save some power, but increases signalling overhead. ZTE agree with Mediatek and Huawei, but think different thresholds maybe needed for LTE and eMC so we should consider it. Ericsson think this might need RAN4 input.
- Gemalto wonder what priorities are referred to in proposal 1. ZTE thinks the priority is necessary to avoid unnecessary measurements and can reflect operator policy. Ericsson think priority could be useful, and it is not necessarily absolute priority reselection but more of a guidance. LG agree with Ericsson and ZTE. Qualcomm and Huawei agree with Mediatek. Nokia thinks we don't need priority information. Qualcomm point out that within NB-IoT there

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are currently no priorities used. Huawei think the UE will follow reselection priorities in the target RAT once selected.

- Gemalto thinks it is up to UE implementation how to use whatever information is provided. Sequans agrees with Gemalto and Qualcomm, and don't see much more than carriers as being useful, except maybe a change indication.
- Qualcomm thinks an indication of support of eMTC would be useful for the LTE carriers. Huawei also think the support indication is useful. ZTE thinks the carriers broadcast as assistance information would always support eMTC. Qualcomm thinks the EARFCN doesn't correspond specifically to LTE or eMTC so the indication would help. Blackberry, Sierra wireless think the indication is useful.

> ⇒ **NB-IoT network may indicate frequency identifiers of neighbouring eMTC/LTE/GERAN carriers to assist inter-RAT selection.**
>
> ⇒ **eMTC/LTE network may indicate frequency identifiers of neighbouring NB-IoT carriers to assist inter-RAT selection.**
>
> ⇒ **Indicate whether each LTE neighbour frequency supports eMTC/LTE/both**
>
> ⇒ **Indicate whether each GERAN neighbour frequency supports EC-GSM/PEO**

✉ **[104#47][NB-IoT R16] Inter-RAT cell selection (Mediatek)**
Whether priority and/or suitability criteria can be broadcast.
How the assistance information is signalled.
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

R2-1817810 Network Assistance for UE Idle Mode Mobility between NB-IoT and LTE, eMTC, GERAN
Qualcomm India Pvt Ltd discussion Rel-16 NB_IOTenh3-Core

⇒ **noted**

R2-1817553 IRAT Cell Selection for NB-IoT Ericsson discussion Rel-16 NB_IOTenh3-Core

R2-1816407 Assistance information for idle mode inter-RAT cell selection Huawei, HiSilicon
discussion Rel-16 NB_IOTenh3-Core

R2-1816426 Considerations on NB-IoT cell selection Gemalto N.V. discussion

R2-1817044 Power Efficient mechanism for Inter RAT cell selection Nokia, Nokia Shanghai Bell
discussion Rel-16 NB_IOTenh3-Core R2-1814414

R2-1817049 Common aspects of signaling of assistance information for Inter RAT cell selection across RATs
Nokia, Nokia Shanghai Bell discussion Rel-16 NB_IOTenh3-Core

R2-1817278 Improvements to Inter-RAT cell selection for IDLE mode Fujitsu discussion Rel-16
NB_IOTenh3-Core, LTE_eMTC5-Core

R2-1817502 Inter-RAT selection triggering for NB-IoT Sequans Communications discussion R2-1813816

R2-1817638 Further consideration on inter-RAT cell selection for NB-IoT ZTE Corporation
discussion Rel-16 NB_IOTenh3-Core

Stage 3 CRs

R2-1817550 Introduction of Inter-RAT cell selection indication in 36.300 Ericsson CR Rel-16
36.300 15.3.0 1205 - B NB_IOTenh3-Core

R2-1817551 Introduction of Inter-RAT cell selection indication in 36.304 Ericsson CR Rel-16
36.304 15.1.0 0761 - B NB_IOTenh3-Core

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R2-1817552 Introduction of Inter-RAT cell selection indication in 36.331 Ericsson CR Rel-16 36.331 15.3.0 3765 - B NB_IOTenh3-Core

12.2.9 Coexistence with NR

Study NR and LTE specifications to identify possible issues related to coexistence of NB-IoT with NR

12.2.10 Other

Others

12.3 Even further mobility enhancement in E-UTRAN

(LTE_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Dec 19; WID: RP-181544)
Time budget: 1 TU
Documents in this agenda item will be handled in a break out session

12.3.1 Organizational

Including incoming LSs and rapporteur inputs (if any)

R2-1817096 Consideration on the LTE5GC applicability China Telecom discussion Rel-16 LTE_feMob-Core

12.3.2 Reduction in user data interruption during handover

Including analysis of current interruption and possible solutions to reduce the interruption time, e.g.

- *Details of the solution directions with split bearer (e.g. how does PDCP relocation/reordering work, security impacts, duplication of data, need for dual RRC)*
- *Details of the solution directions with non-split bearer (e.g. how does PDCP relocation/reordering work, security impacts, duplication of data, need for dual RRC)*

General discussion and comparison of split and non-split bearer solutions

- *What are the protocol architecture differences envisioned for the solutions?*
- *What are the main open issues for each solution direction?*
- *What are the commonalities with any solution direction?*
- *How do we ensure the procedures are not too complicated?*

R2-1816693 Performance evaluation for simultaneous connectivity Intel Corporation discussion Rel-16 LTE_feMob-Core R2-1814053

- Chairman wonders whether these results are applicable to both split and non-split mechanisms. Intel thinks this is applicable to both.
- Ericsson wonders what split and non-split mean. We don't have very clear terminology on these.
- Samsung wonders if this takes into account RAN4 feedback on simultaneous connectivity. Intel clarifies the simulations are based on simultaneous connection, but not how this is accomplished exactly. Nokia wonders which RAN4 feedback is being discussed since we haven't received the LS yet. QC agrees. LGE agrees. Samsung clarifies there was an official offline discussion in RAN4 reflector on this. Ericsson thinks we can support simultaneous connectivity at least in some cases already now (e.g. CA). Samsung thinks it only works in intra-frequency synchronous networks.

O3

- LGE wonders if the architecture can support RLM in both legs. Intel clarifies there are different RLM modelling options in the simulator.
- MediaTek thinks the benefits depend on the exact mechanism. vivo thinks we could have different solutions for HOF and RLF. Currently we have no RLM during HO. Xiaomi agrees we should consider RLM for both links.

Agreements

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1	We aim to consider some form of multiple connectivity during study phase depending on RAN4 reply on applicability to different scenarios.

✉ **[104#61][LTE/feMOB] Solution directions for minimizing user data interruption for UL/DL (Nokia)**
Discuss the details of potential solution directions for split and non-split bearers and compare the solutions. Proponents should indicate the assumptions on UE (e.g. RF requirements). Consider at least the evaluation metrics agreed last time, RLM, data forwarding, user data interruption, RF requirements (e.g. 2Rx/2Tx).
Two-stage discussion: First stage (2 weeks) to identify structure of discussion document, second stage to define and compares the solutions directions.
Intended outcome: Email discussion summary with candidate solutions.
Deadline: Thursday 2019-02-07

R2-1816947 Solutions on Reduction in user data interruption CATT discussion Rel-16 LTE_feMob-Core
R2-1816859 General requirements of multiple connectivity based mobility ZTE Corporation, Sanechips discussion LTE_feMob-Core
R2-1816694 Protocol stack comparison between split bearer and non-split bearer option for simultaneous connectivity handover Intel Corporation discussion Rel-16 LTE_feMob-Core
R2-1816930 Comparison of DC-based and eMBB-based handover OPPO discussion
R2-1816514 Analysis on split-bearer and non-split bearer solutions MediaTek Inc. discussion
R2-1816785 Reducing User Data Interruption during Handover for LTE InterDigital discussion Rel-16 LTE_feMob-Core
R2-1817811 Key metrics analysis for LTE HO architecture solution discussion Qualcomm India Pvt Ltd discussion Rel-16 LTE_feMob-Core
R2-1818323 single uplink feedback for dual downlink data transmission Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core
R2-1818139 Discussion of '0ms' interruption handover in context of E-UTRAN CMCC discussion

Non-split bearer solutions: eMBB-based solutions

- *How is bearer handling done?*
- *How does PDCP reordering work with eMBB?*
- *What are the security impacts and when does UE apply security keys?*
- *Is duplication of data needed?*
- *Do we need for dual RRC?*

R2-1817692 Alternative eMBB handover procedure with close-to-zero ms interruption Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core
R2-1816927 Control plane consideration for enhanced MBB based handover OPPO discussion
R2-1816929 User plane consideration for enhanced MBB based handover OPPO discussion
R2-1817813 LTE Mobility Enhancements Qualcomm India Pvt Ltd discussion Rel-16 LTE_feMob-Core R2-1814206
R2-1817691 Non-split bearer solution for reducing the service interruption time in HO Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core
R2-1816695 Detail for non-split bearer option for simultaneous connectivity Intel Corporation discussion Rel-16 LTE_feMob-Core
R2-1816860 Discussion on non-split bearer based mobility ZTE Corporation, Sanechips discussion LTE_feMob-Core
R2-1816296 Interruption time reduction for MBB Samsung discussion Rel-16 LTE_feMob-Core R2-1813626
R2-1817396 Enhancements to Make-Before-Break Ericsson discussion Rel-16 LTE_feMob-Core

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R2-1816946 Further Consideration on Simultaneous Connectivity Handover CATT discussion Rel-16 LTE_feMob-Core
R2-1818077 Performance evaluations of eMBB solution Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core
R2-1818078 Details of eMBB solution Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

Split bearer solutions: DC-based solutions

- *Do we need full DC or just something similar to DC?*
- *How is bearer handling done?*
- *How does PDCP relocation work with DC?*
- *What are the security impacts and when does UE apply security keys?*
- *Is duplication of data needed?*
- *Do we need for dual RRC?*

R2-1818079 Performance evaluations of DC-based handover solution Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core
R2-1816331 CP signalling and procedure of DC handover vivo discussion Rel-16 LTE_feMob-Core R2-1814192
R2-1817690 Split bearer solution for reducing the service interruption time in HO Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core
R2-1818080 Details of DC-based handover solution Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core
R2-1816926 Control plane consideration for DC-based handover OPPO discussion
R2-1816445 Alternative for security key change and reducing signalling overhead in DC based HO LG Electronics Inc. discussion LTE_feMob-Core
R2-1816928 User plane consideration for DC-based handover OPPO discussion
R2-1817395 DC based handover Ericsson discussion Rel-16 LTE_feMob-Core
R2-1816432 Consideration of the RRC support of DC HO vivo discussion Rel-16 LTE_feMob-Core
R2-1816332 UP architecture and impacts of split bearer handover vivo discussion Rel-16 LTE_feMob-Core R2-1814193
R2-1816861 Discussion on split bearer based mobility ZTE Corporation, Sanechips discussion LTE_feMob-Core
R2-1816295 Overview of potential MBB enhancements Samsung discussion Rel-16 LTE_feMob-Core Late

Single vs. dual RRC during HO

R2-1816513 Single/Dual RRC for multiple connectivity during HO MediaTek Inc. discussion
R2-1817097 Handover robustness improvement for simultaneous connectivity handover China Telecom discussion Rel-16 LTE_feMob-Core
R2-1818169 Discussion on single RRC or dual RRC for non split-bearer Beijing Xiaomi Software Tech discussion

Security aspects

R2-1817475 Key Change in DC based HO Apple Inc. discussion Rel-16 LTE_feMob-Core
R2-1817084 Security and L2 aspects for simultaneous HO Sony discussion Rel-16 LTE_feMob-Core

RACHless solutions

R2-1816297 RACH-less enhancements for reduced interruption time Samsung discussion Rel-16 LTE_feMob-Core R2-1814622

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R2-1817397 RACH-less handover robustness Ericsson discussion Rel-16 LTE_feMob-Core

The document below has been moved from 12.3.4

R2-1818087 Enhancements to RACH-less solution Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

12.3.3 Handover robustness improvements

Including analysis of handover robustness issues in Rel-15 and possible solutions to improve that, e.g.

- *Details of the solution directions that improve handover robustness over existing Rel-15 methods (including how to combine the robustness solution with interruption reducing solutions)*
- *Performance evaluation (e.g. via simulation results) of candidate schemes (including indication of how the mobility robustness improvement is evaluated, e.g. via HOF/RLF rate)*

Conditional handover performance evaluations via simulations

- *Is there mobility robustness benefit from conditional HO?*

R2-1818048 Simulation Results on Conditional Handover ETRI discussion Rel-16 LTE_feMob-Core R2-1815245

- Chairman wonders if we should support CHO. MediaTek supports CHO. Huawei thinks UL signalling overhead is important to analyze, which is not done in this paper. Ericsson thinks CHO is a broad term and would prefer to talk about pre-condition for executing the handover. QC thinks some sort of CHO is needed but for robustness only. vivo doesn't think UL overhead is large. Nokia shares some of the observation in this paper but also thinks we should be careful what "conditional HO" means.
- Huawei would like to ensure network controls the handover. vivo thinks UE triggers the handover based on condition. Intel thinks the important part is that UE is pre-configured with HO command and UE only triggers the HO if the condition is met.
- vivo would like to consider also SCG change.

Agreements
1 RAN2 will consider a conditional handover: This is defined as UE having network configuration for initiating access to a target cell based on configured condition(s).
2 Usage of conditional handover is decided by network. UE evaluates when the condition is valid.

=> FFS on the exact details of the procedures

R2-1817687 Performance of Conditional Handover – simulation results Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core

R2-1818049 TTT in Conditional Handover ETRI discussion Rel-16 LTE_feMob-Core R2-1815246

R2-1817400 Simulation results for conditional handover in LTE Ericsson discussion Rel-16 LTE_feMob-Core

R2-1816692 Performance evaluation of conditional handover Intel Corporation discussion Rel-16 LTE_feMob-Core R2-1814052

R2-1816960 Performance Evaluation and Implication for Conditional HO MediaTek Inc. discussion

R2-1817098 Simulation for conditional handover China Telecom discussion Rel-16 LTE_feMob-Core

Conditional HO: Details of the solution

R2-1817399 Conditional handover in LTE Ericsson discussion Rel-16 LTE_feMob-Core

P2

- Lenovo supports the proposal but wonders if we can have different conditions for different cells. LGE also supports the proposal and thinks we could have different conditions for

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different cells. Huawei has concern on P2 and thinks at most one cell is beneficial. There could be overhead with multiple CHO cells configured. Interdigital supports P2 and thinks it's up to network how many cells are configured. QC supports P2 since standards should allow flexibility. Nokia thinks a single cell provides most gains and could be sufficient for LTE. Apple also supports P2.

- MediaTek wonders what multiple cells means in this context. Can UE retain more than one CHO target, or does this require two configurations? Ericsson clarifies that network can configure several cells for CHO in one configuration. Whether we allow two configurations needs more studies.
- vivo wonders how network decides which cell to use for CHO. Chairman thinks this is network implementation.
- Intel wonders what resources are reserved at network side for CHO. Nokia thinks this would be similar as in legacy HO. UE context would be stored at every cell. Intel wonders if the storage is a problem for network since this happens at other times. Nokia thinks admission control can be an issue and might reserve some radio resources at network side.
- MediaTek wonders how UE handles multiple CHO targets: when network sends second cell as a target, does it disregard any previous cell given as target? Nokia thinks UE only has a single target at any given time.
- QC wonders if this is about one configuration (potentially with multiple cells) or one configuration with one target cell at a time. Ericsson thinks UE can have multiple targets, but details are FFS.

Agreements
1 Support configuration of one or more candidate cells for conditional handover.

=> FFS how many candidate cells (UE and network impacts should be clarified).

R2-1818047 Considerations on Conditional Handover ETRI discussion Rel-16 LTE_feMob-Core R2-1815244

R2-1816786 Conditional Handover for LTE mobility robustness InterDigital discussion Rel-16 LTE_feMob-Core

R2-1816691 Discussion of conditional handover Intel Corporation discussion Rel-16 LTE_feMob-Core R2-1814051

R2-1816334 Signaling procedures of conditional handover vivo discussion Rel-16 LTE_feMob-Core R2-1814194

R2-1816333 Mobility robustness evaluation for conditional handover vivo discussion Rel-16 LTE_feMob-Core

R2-1816931 Discussion on the conditional handover OPPO discussion R2-1813795

R2-1816932 Discussion on failure handling of handover OPPO discussion R2-1813796

R2-1816959 Conditional Handover Procedures MediaTek Inc. discussion

R2-1817082 Dual event based Early handover Sony discussion Rel-16 LTE_feMob-Core

R2-1817546 Conditional handover in LTE system Lenovo, Motorola Mobility discussion Rel-16 LTE_feMob-Core

R2-1817686 Baseline of Conditional Handover and its optional enhancements Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core

R2-1818081 Performance evaluations of Pre-Condition based handover solution Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

R2-1818082 Details of Pre-Condition based handover solution Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

R2-1818083 Comparison of Pre-Condition based handover solution and existing means Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

R2-1818332 Consideration to Support Conditional HO LG Electronics Inc. discussion Rel-16 LTE_feMob-Core R2-1815498

R2-1818382 Conditional Handover making up for LTE baseline HO Samsung R&D Institute UK discussion

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General mobility robustness aspects

R2-1817685 On the scope of mobility robustness Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core

R2-1817398 Overview on mobility robustness enhancements in LTE Ericsson discussion Rel-16 LTE_feMob-Core

Combination of mobility robustness solution with solution minimizing user data interruption

R2-1817829 LTE Mobility Enhancements Qualcomm India Pvt Ltd discussion Rel-16 LTE_feMob-Core R2-1814206

The document below has been moved from 12.3.2

R2-1818046 Conditional Make-Before-Break Handover ETRI discussion Rel-16 LTE_feMob-Core R2-1815243

Other mobility robustness enhancements

R2-1817404 Enhancements to re-establishment procedure in LTE Ericsson discussion Rel-16 LTE_feMob-Core

R2-1817688 Considerations for failure recovery in LTE Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core

R2-1817401 Repetition of RRC messages at handover Ericsson discussion Rel-16 LTE_feMob-Core

R2-1817403 Enhancing the handling of timer T312 Ericsson discussion Rel-16 LTE_feMob-Core

R2-1817474 Improvements on HO Robustness in LTE Apple Inc. discussion Rel-16 LTE_feMob-Core

R2-1818084 PDCP duplication for improving robustness Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core R2-1815224

R2-1817083 Uplink based HO, Sony discussion Rel-16 LTE_feMob-Core

12.3.4 Other

Including discussion on whether the solutions in the WID should be applicable for LTE connected to 5GC.

Should the mobility procedures support also LTE connected to 5GC?

The document below has been moved from 12.3.1

R2-1817096 Consideration on the LTE5GC applicability China Telecom discussion Rel-16 LTE_feMob-Core

- Intel thinks this WID is where the LTE/5GC work belongs if it's somewhere. Nokia would like to deprioritize work between LTE/EPC and LTE/5GC. Samsung thinks we might want to prioritize features that work equally well for EPC and 5GC. QC thinks lossless HO is not possible between EPC and 5GC. Intel thinks we should first focus on solutions and then their CN applicability. We don't need to consider NR PDCP and Xn interface. Samsung thinks we should prioritize good solutions, which by nature would likely work for EPC and 5GC both.

Agreements
1 We will prioritize solutions for LTE/EPC in this WID. Can discuss LTE/5GC support based on Stage-3 details.
2 Do not consider solutions for handover between LTE/EPC and LTE/5GC.

R2-1816948 Clarification of the Scope for LTE connectivity to 5G-CN CATT discussion Rel-16 LTE_feMob-Core R2-1814480

R2-1817402 Scenarios for mobility enhancements Ericsson discussion Rel-16 LTE_feMob-Core

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R2-1817689 On enhancing the mobility of E-UTRA connected to 5GC Nokia, Nokia Shanghai Bell discussion Rel-16 LTE_feMob-Core

The document below has been moved from 12.3.2

R2-1816335 Consideration on 5GC support of LTE mobility enhancement vivo discussion Rel-16 LTE_feMob-Core

R2-1818085 Considerations on LTE-5GC for feMob Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

R2-1818086 [DRAFT] LS on the scope of the WI feMob Huawei LS out Rel-16 LTE_feMob-Core To:RAN3

Other topics

R2-1818088 Summary of candidate solutions Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

R2-1818089 Considerations on failure handlings Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

R2-1818090 RAN2 impacts due to RAN4 and RAN1 feedbacks Huawei, HiSilicon discussion Rel-16 LTE_feMob-Core

R2-1817405 Measurement reporting overhead reduction based on enhanced event triggering Ericsson discussion Rel-16 LTE_feMob-Core

R2-1816465 Discussion on Capability Coordination for LTE Mobility Enhancements OPPO discussion

13 Comebacks

This agenda item will be used during the meeting. No documents are supposed to be submitted by delegates.

13.1 Breakout sessions

13.1.1 Report from Break-Out session

Report from session on Rel-15 LTE and NR idle/inactive mobility

R2-1818521 Report from Break-Out Session, Vice-Chair (CMCC)
CBF: Report from Break-Out Session, Vice-Chair (CMCC)
=> Approved

Comebacks

R2-1817408 RRC corrections for URLLC Ericsson CR Rel-15 36.331 15.3.0 3751 - F LTE_HRLLC
=> Agreed

✉ **[104#17][LTE/HRLLC] CR on DC duplication (Ericsson)**
Intended outcome: Agreed CR to 36.331
Deadline: Monday 2018-11-26

R2-1817311 Supporting MME and AMF overload control Ericsson CR Rel-15 36.331 15.3.0 3745 - F LTE_5GCN_connect-Core
CB on Friday: Offline discussion # 220 (R2-1818691, Ericsson)
=> Through offline discussion try to provide a CR for technical endorse.

R2-1818691 Supporting MME and AMF overload control Ericsson CR Rel-15 36.331 15.3.0 3745 - F LTE_5GCN_connect-Core

✉ **[104#18][LTE/5GC] CR on MME and AMF overload control (Ericsson)**

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This email discussion will also conclude whether an agreed CR (on delay tolerant) will remain agreed or not.
Note the CR under discussion in an NBC CR.
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

CB on Friday:=> Revised in R2-1818880 to improve the field description (Offline#266, MTK)

R2-1818880 Clarification of UE behaviour when frequencyBandList is absent in SIB4 MediaTek Inc. CR Rel-15 38.331 15.3.0 0577 1 F NR_newRAT-Core
=> Agreed

CB => Revised in R2-1818690 (Offline#210, Ericsson)
=> Postponed until getting more information from RAN4.

R2-1818690 Correction to Q-RxLevMin and Q-QualMin value range Ericsson CR Rel-15 38.331 15.3.0 0604 1 F NR_newRAT-Core

✉ **[104#19][NR] Q-RxLevMin and Q-QualMin value range and P-Max value range (Ericsson)**
Update the CRs based on any RAN4 agreements (if no agreements in RAN4 then this email discussion is not needed)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

CB on Friday:=> Postponed
=> offline#277 Ericsson

R2-1817149 Correction to P-Max value range for FR2 Ericsson CR Rel-15 38.331 15.3.0 0605 - F NR_newRAT-Core
=> Postponed to next meeting (until RAN4 feedback is received)

CBF: => Revised in R2-1818700 (offline#234, Huawei)

R2-1818700 Corrections to CellSelectionInfo in SIB1 Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0684 1 F NR_newRAT-Core
=> Agreed

CB on Friday => Revised in R2-1818875 to simplify the description. (Offline#235, Huawei)

R2-1818875 Correction to offsetToPointA Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0731 1 F NR_newRAT-Core
=> Agreed

R2-1818044 Correction to cell selection parameters Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0732 - F NR_newRAT-Core
=> Agreed
=> Can revisit the value ranges if there is agreement from RAN4 to change the existing ranges

CB on Friday:=> Postponed until we get more information from RAN1.
=> Revised in R2-1818994

R2-1818994 Correction to Skipping PDCCH monitoring occasions overlapping with UL symbols Samsung Electronics Co., Ltd CR Rel-15 38.304 15.1.0 0077 1 F NR_newRAT-Core
=> Postponed to the next meeting

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CB Friday => Revised in R2-1818996, Offline#299 Samsung

R2-1818996 Correction to configuration of firstPDCCH-MonitoringOccasionOfPO Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0524 1 F NR_newRAT-Core
=> Revised in R2-1819085

R2-1819085 Correction to configuration of firstPDCCH-MonitoringOccasionOfPO Samsung Electronics Co., Ltd CR Rel-15 38.331 15.3.0 0524 2 F NR_newRAT-Core
=> Agreed

13.1.2 Report from Break-Out session

Report from session on NR UP, IAB SI, NR-U SI, NR IIoT SI

R2-1818522 Report from Break-Out Session, Vice-Chair (MediaTek)
CBF: Report from Break-Out Session, Vice-Chair (MediaTek)
=> Approved

R2-1818743 [Draft] LS on IAB security Ericsson SA3
- Nokia think the figures include options which have agreed not to be supported.
- Qualcomm think the protocol stacks are just examples to show the question.
- MediaTek explain the decision on options was based on the assumption that SA3 would indicate that it was acceptable.
- Nokia think if SA3 respond that PDCP must be used then we will need to revisit our decision.

=> People given a little more time to check the LS. Will be discussed at start of user plane session after morning coffee on Tuesday.

Comeback Main Session

R2-1818798 Correction to PHR procedures in dual-connectivity Qualcomm Inc. CR Rel-15 36.321 15.3.0 1404 3 F NR_newRAT-Core
=> Agreed

R2-1818799 Correction to PHR procedures in dual-connectivity Qualcomm Inc. CR Rel-15 38.321 15.3.0 0593 3 F NR_newRAT-Core
=> Agreed

R2-1818800 LS to RAN1 Qualcomm
=> Approved in R2-1819101

Reallocated to CP session

R2-1818107 Introducing PDCP suspend procedure LG Electronics Inc. CR Rel-15 36.331 15.3.0 3794 - F NR_newRAT-Core

✉ **[104#20][NR] PDCP suspend in LTE RRC (LG)**
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

For Information

R2-1818770 Clarfication on PHR timing Nokia, Nokia Shanghai Bell, Ericsson, NTT DOCOMO, INC. CR Rel-15 38.321 15.3.0 0354 5 F NR_newRAT-Core R2-1814474

✉ **[104#21][NR] PHR timing (Nokia)**
Intended outcome: Agreed CR and approved LS to RAN1
Deadline: Monday 2018-11-26

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Dependent on CP discussion, comeback if convergence there:

R2-1816742 Suspend and resume of security Intel Corporation CR Rel-15 38.323 15.3.0 0022 1 F NR_newRAT-Core R2-1816009
=> Agreed

13.1.3 Report from Break-Out session

Report from session on NB-IoT

R2-1818523 Report from Break-Out Session, Session Chair (Huawei)
CBF: Report from Break-Out Session, Session Chair (Huawei)
=> Approved

R2-1816383 Clarification of features not supported in NB-IoT Huawei, HiSilicon CR Rel-15 36.300 15.3.0 1195 1 F LTE_5GCN_connect-Core, NR_newRAT-Core, LTE_Aerial-Core R2-1813898
=> Agreed

R2-1818629 Clarification of features not supported in NB-IoT Huawei, HiSilicon CR Rel-15 36.331 15.3.0 3691 1 F LTE_5GCN_connect-Core, NR_newRAT-Core, LTE_Aerial-Core R2-1816384
=> Agreed

13.1.4 Report from Break-Out session

Report from session on MTC

R2-1818524 Report from Break-Out Session, Session Chair (Ericsson)
CBF: Report from Break-Out Session, Session Chair (Ericsson)
=> Approved

13.1.5 Report from Break-Out session

Report from session on Legacy LTE, Rel-15 LTE, and NR NTN SI,

R2-1818525 Report from Break-Out Session, Session Chair (InterDigital)
CBF: Report from Break-Out Session, Session Chair (InterDigital)
=> Approved

R2-1818607 CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation ZTE Corporation, Sanechips CR Rel-14 36.331 14.8.0 3672 1 F TEI14 R2-1815554
=> Agreed

R2-1818954 CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation ZTE Corporation, Sanechips CR Rel-15 36.331 15.3.0 3673 2 F TEI15, LTE_5GCN_connect-Core R2-1815632
=> Agreed

R2-1818959 SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information Ericsson, ESA CR Rel-15 36.331 15.3.0 3596 3 F TEI15 R2-1814106
=> Agreed

R2-1818958 revised after agreement?

R2-1819040 Support for Logging of 'Any cell selection' state LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell CR Rel-15 36.331 15.3.0 3803 - B
=> CR is not agreed

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=> Previous revision in R2-1818958 remains agreed

13.1.6 Report from Break-Out session

Report from session on Rel-15 Positioning WI

R2-1818526 Report from Break-Out Session, Session Chair (MediaTek)
CBF: Report from Break-Out Session, Session Chair (MediaTek)
=> Approved

13.1.7 Report from Break-Out session

Report from session on LTE V2X and NR V2X

R2-1818527 Report from Break-Out Session, Session Chair (Intel)
CBF: Report from Break-Out Session, Session Chair (Intel)
=> Approved

1. TP on e2e delay analysis for Uu-based V2X communication (Intel, R2-1819016). Note TP was already agreed when discussed email discussion summary in R2-1816705 and the intention is to have separate contribution for only TP part (no change in the contents).

R2-1819016 TP to TR 38.885 on e2e delay analysis for Uu-based V2X communication Intel Corporation pCR Rel-15 38.885 FS_NR_V2X

=> Agreed

2. [Draft] LS on RAT/interface selection (ZTE, R2-1819014), TO: SA2, CC: RAN3

- To inform the agreed TP on RAT/interface selection and to ask SA2 views on RAN2 questions.

R2-1819014 LS on RAT selection for SL ZTE LS out Rel-16 FS_NR_V2X To:SA2 Cc:RAN3

=>Revised to R2-1819081

R2-1819081 LS on RAT selection for SL ZTE LS out Rel-16 FS_NR_V2X To:SA2 Cc:RAN3

=> Approved in R2-1819082

3. [Draft] LS on RAN2 agreed TPs (Huawei, R2-1819015), TO: RAN1

- To inform the agreed TPs (besides TP on scenarios) and to ask RAN1 to capture them into TR.

R2-1819015 [DRAFT] LS on RAN2 agreed TPs Huawei LS out Rel-16 FS_NR_V2X To:RAN1
=> Approved in R2-1819083

13.1.8 Report from Break-Out session

Report from session on Rel-16 LTE Mobility Enhancements WI

R2-1818528 Report from Break-Out Session, Session Chair (Nokia)
CBF: Report from Break-Out Session, Session Chair (Nokia)
=> Approved

13.1.9 Report from Break-Out session

Report from session on L1 parameters

R2-1818949 Report from Break-Out Session, Session Chair (Ericsson)

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CBF: Report from Break-Out Session, Session Chair (Ericsson)
=> Approved

Offline 900: Reply LS to RAN1 on TCI state for CORESET 0 and commonControlResourceSet

R2-1819054 Reply LS on TCI States for CORESET 0 and commonControlResrouceSet; to RAN1; Contact: DCM
=> Approved in R2-1819084

R2-1819053 CR on TCI State for CORESET 0; 38.321, DCM
=> Agreed

Offline 901: Configuration of MIMO layers.

R2-1818943 Per serving cell MIMO layer configuration MediaTek Inc. CR Rel-15 38.331 15.3.0 0543 1
=> Remove the " and CSI-RS reporting "
=> Agreed in R2-1819086

Offline 902: Rate matching around CORESETs

R2-1818944 Correction for rate matching Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0547 1 F NR_newRAT-Core
=> Not agreed

Offline 903: Time domain allocation lists:

R2-1818945 CR on pdsch-TimeDomainAllocationList and pusch-TimeDomainAllocationList Huawei, HiSilicon CR Rel-15 38.331 15.3.0 0654 1 F NR_newRAT-Core
=> Agreed

Offline 904: UE feature list item 6-1

R2-1818946 Clarification for the implementation of UE feature list item 6-1 (BWP op1) Intel Corporation, NTT DoCoMo Inc CR Rel-15 38.331 15.3.0 0414 1 F NR_newRAT-Core R2-1814967
=> Agreed

Offline 905: RRC Buffer Size (Listed in main session notes)

Offline 906: Mapping of BWP ID to DCI code points

R2-1819048 Corrections on BWP ID Spreadtrum Communications CR Rel-15 38.331 15.3.0 0640 - F NR_newRAT-Core
=> Rely on network to ensure BWP configuration with sequential ID.

R2-1819076 CR to TS 38.331 clarifying that, the network ensures BWP configuration with sequential ID. Spreadtrum
=> Change the addition to " The network configures the BWPs with consecutive IDs."
=> Update the coversheet reason for change to reflect the change in the CR
=>Revised in R2-1819087

=> Draft LS to RAN1 to explain the agreement we have taken
=> Draft LS in R2-1819088 (Offline discussion 958, Intel)

R2-1819087 Corrections on BWP ID Spreadtrum Communications CR Rel-15 38.331 15.3.0 0640 2 F NR_newRAT-Core

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=> Agreed

R2-1819088 [DRAFT] [LS to RAN1 on the agreements in R2-1818087] Intel LS out Rel-15 NR_newRAT-Core To:RAN1
=> Approved in R2-1819102

Offline 957: PUCCH-ConfigCommon

R2-1818941 CR on PUCCH-ConfigCommon vivo CR Rel-15 38.331 15.3.0 0518 1 F NR_newRAT-Core
=> Agreed

13.2 Main session

This section contains a temporary list of comebacks (press F9 to update while the cursor is inside the list).

14 Outgoing LSs

Draft LSs should be submitted to their corresponding agenda item if there is one. If there is no appropriate agenda item, draft LSs, and any association discussion documents, may be submitted to this agenda item.

R2-1818204 [DRAFT] Reply LS on supporting low latency and low jitter during handover procedure for SA2 URLLC OPPO LS out To:SA2 Late
=> Simply the text to just say the we will start the mobility WI next year instead
=> The questions relevant to RAN2 will be answered when the work has started
=> Revised in R2-1818615 (Offline discussion 03)

R2-1818615 [DRAFT] Reply LS on supporting low latency and low jitter during handover procedure for SA2 URLLC OPPO LS out To:SA2
=> Approved in R2-1819065

R2-1818206 Discussion on SA2 LS on supporting low latency and low jitter during handover procedure OPPO discussion Late

R2-1817923 Discussion about the SA2 LS on support for low latency and low jitter at handover Ericsson discussion Rel-16

15 Any other business

R2-1816645 Observed Concerns with CR Management Sprint Corporation discussion
Discuss on Friday
- Chair explained that in last quarter RAN2 submitted a single CR to NR RRC containing all changes and it did make the changes difficult to track. This quarter we will submit separate CRs so tracking of the changes should be easier. Also the rapporteurs, MCC, and chairmen always make every effort to ensure the accuracy of all CRs and documentation submitted to RAN plenary.
  For changes to the ASN.1 it is easy to categorise them as BC or NBC and this quarter we have no agreed CRs containing NBC changes to the ASN.1. For other changes it is more difficult to categorise them as BC or NBC and the important thing is that the impact analysis on the CR coversheet is correct and appropriate.
- Ericsson agree with chair comments that it is important to focus in the impact analysis.
- Huawei share the same view that the impact analysis needs to be done and is key to understand the consequences.

=> Noted

Late drop
- RAN2 chair will report to RAN that we have not been able to complete the late drop.

- Samsung still believe that it will be able to keep to the original schedule for the late drop.

16 Closing of the meeting (17:00)

The meeting was closed at 17:23 on Friday, 16th of November.

Annex A:
List of participants

RAN2#104 participants list is at: https://webapp.etsi.org/3GPPRegistration/fViewPart.asp?mid=18808

Total number of participants: 308 (registered 415)

Annex B:
List of Tdocs

The list of tdocs of this RAN2#104 is attached to this report.

Total of 3007 tdoc numbers were allocated of which 2893 tdocs were available.

Annex C:
Incoming liaison statements

TDoc	Title	Source	Status	Rel	Related WIs	To	Cc	Original LS

R2-1816202	LS on RRC establishment cause in RRC reestablishment fallback case (C1-186600; contact: Huawei)	CT1	noted	Rel-15	5GS_Ph1-CT	RAN2	RAN3	C1-186600
R2-1816203	Reply LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service (C1-186851; contact: Samsung)	CT1	noted	Rel-15	5GS_Ph1-CT	RAN2	SA2	C1-186851
R2-1816204	Reply LS on LS on the Impacts of increasing the MAC-I and NAS-MAC size (C1-186961; contact: Huawei)	CT1	noted	Rel-16		SA2	RAN2, RAN3, ETSI SAGE	C1-186961
R2-1816205	Reply LS on establishment causes (C1-186967; contact: Ericsson)	CT1	noted	Rel-15	5GS_Ph1-CT	RAN2	SA1, SA2	C1-186967
R2-1816206	LS on successful completion of early data transmission when eNodeB decided not to have RRC connection (C1-186968; contact: Ericsson)	CT1	noted	Rel-15		RAN2		C1-186968
R2-1816207	Reply LS on inclusion of selected PLMN into the complete message C1-186994; contact: Samsung)	CT1	noted	Rel-15	5GS_Ph1-CT	RAN2, RAN3	SA2, SA3	C1-186994
R2-1816208	LS on Restriction of 1024QAM CSI reporting (R1-1809609; contact: Nokia)	RAN1	noted	Rel-15	LTE_1024QAM_DL-Core, LTE_sTTIandPT-Core	RAN2		R1-1809609
R2-1816209	LS on HRLLC (R1-1809691; contact: Ericsson)	RAN1	noted	Rel-15	LTE_HRLLC-Core	RAN2		R1-1809691
R2-1816210	Reply LS on power class for FR1 EN-DC and NR CA (R1-1811935; contact: Samsung)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2	RAN4	R1-1811935
R2-1816211	LS on aperiodicTriggeringOffset (R1-1811936; contact: Ericsson)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1811936
R2-1816212	LS on description of QCL (R1-1811937; contact: ZTE and Intel)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1811937
R2-1816213	LS on field description for SearchSpace (R1-1811969; contact: NTT DOCOMO)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1811969
R2-1816214	LS on wideband carrier operation for NR-U (R1-1812026; contact: Ericsson)	RAN1	noted	Rel-16	FS_NR_unlic	RAN2, RAN4		R1-1812026
R2-1816215	Reply LS on intra-band combination for NR CA and MR-DC (R1-1812028; contact:Intel)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2	RAN4	R1-1812028
R2-1816216	LS on RAN1 NR UE features update (R1-1812037; contact: NTT DOCOMO and AT&T)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2, RAN4	RAN3	R1-1812037
R2-1816217	LS on Uu control of NR sidelink (R1-1812057; contact: Huawei)	RAN1	noted	Rel-16	FS_NR_V2X	RAN2		R1-1812057
R2-1816218	Multiple active configured UL grants for NR V2X (R1-1812058; contact: Ericsson)	RAN1	noted	Rel-16	FS_NR_V2X	RAN2		R1-1812058
R2-1816219	Reply LS on PHR and SUL (R1-1812062; contact: Huawei)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1812062
R2-1816220	Reply LS on L1 capabilities (R1-1812065; contact: AT&T)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1812065
R2-1816221	LS on clarification to Max Data Rate in TS38.306 (R1-1812072; contact: Ericsson)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1812072
R2-1816222	LS on network synchronization for handover purposes (R1-1812074; contact: Ericsson)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1812074
R2-1816223	LS on search space configuration for DCI format 2_0 monitoring (R1-1812075; contact: Qualcomm)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1812075

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R2-1816224	Reply LS on inclusion of selected PLMN into the complete message (R3-186231; contact: Qualcomm)	RAN3	noted	Rel-15	NR_newRAT-Core, 5GS_Ph1-CT	RAN2, CT1	SA2	R3-186231
R2-1816225	Reply LS to SA5 on L2 measurementst (R3-186232; contact: Huawei)	RAN3	noted	Rel-15	NR_newRAT-Core	SA5	RAN2	R3-186232
R2-1816226	Reply LS on asymmetric mapping for UL and DL QoS flows (R3-186248; contact: LGE)	RAN3	noted	Rel-15	NR_newRAT-Core	RAN2		R3-186248
R2-1816227	LS on measurement of different SSBs with different PCIs within the same NCGI (R3-186262; contact: Nokia)	RAN3	noted	Rel-15	NR_newRAT-Core	RAN2		R3-186262
R2-1816228	LS to RAN2 on measurement gap applicability (R4-1813693; contact: CMCC)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2		R4-1813693
R2-1816229	Reply LS on intra-band combination for NR CA and MR-DC (R4- 1813862; contact: T-Mobile)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2	RAN1	R4-1813862
R2-1816230	Reply LS on power class and P-Max for FR1+FR2 EN-DC and NR CA (R4-1814148; contact: Oppo)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2		R4-1814148
R2-1816231	Reply LS on Return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (S2-1810800; contact: MediaTek)	SA2	noted	Rel-16	FS_5G-SRVCC	RAN6	RAN2, RAN3	S2-1810800
R2-1816232	Reply LS on requesting study of system level aspects of NR-U (S2-1811023; contact: Nokia)	SA2	noted		FS_Vertical_LAN, FS_NR_unlic	RAN2	RAN1, RAN3, RAN, SA	S2-1811023
R2-1816233	Reply to LS on Slice based Wait timer in NR RRC release (S2-1811520; contact: Ericsson)	SA2	noted	Rel-15	NR_newRAT-Core, 5GS_Ph1	RAN2	SA1, CT1	S2-1811520
R2-1816234	Reply LS on the need of paging reception for the call-back when a UE is in limited service state (S2-1811544; contact: Intel)	SA2	noted	Rel-15	NR_newRAT-Core, 5GS_Ph1	RAN2	SA1	S2-1811544
R2-1816235	LS on redundant transmission for URLLC (S2-1811555; contact: Huawei)	SA2	noted	Rel-16	FS_5G_URLLC	RAN1, RAN2, RAN3		S2-1811555
R2-1816236	LS on supporting low latency and low jitter during handover procedure S2-1811556; contact: Oppo)	SA2	noted	Rel-16	FS_5G_URLLC	RAN2, RAN3		S2-1811556
R2-1816237	LS on QoS Monitoring (S2-1811558; contact: Huawei)	SA2	noted	Rel-16	FS_5G_URLLC	SA5, RAN2, RAN3		S2-1811558
R2-1816238	LS on New QCI-5QIs for FLUS (S4-181167; contact: Qualcomm)	SA4	noted	Rel-16	E-FLUS	SA2	RAN2	S4-181167
R2-1816239	LS reply on energy efficiency of 5G (S5-186375; contact: Orange)	SA5	noted	Rel-16	EE_5G	ETSI TC EE	SA, RAN, RAN2, RAN3	S5-186375
R2-1816240	Reply LS on Issues with AS Release Assistance Indicator (S2-1811471; contact: Qualcomm)	SA2	noted	Rel-14	TEI14	RAN3	RAN2	S2-1811471
R2-1816241	LS on Core Network Overload Control with ‘option 5 enabled eNB (S2-1811545; contact: Vodafone)	SA2	noted	Rel-15	5GS_Ph1	RAN2	CT1, RAN3	S2-1811545
R2-1816242	Reply LS on initial NAS security agreements (S2-1811568; contact: Intel)	SA2	noted	Rel-15	5GS_Ph1	SA3, CT1	RAN2, RAN3, SA	S2-1811568
R2-1816243	Avoiding MME impacts from 3-byte TAC S2-1811574;	SA2	noted	Rel-15	5GS_Ph1	RAN2, RAN3		S2-1811574

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	contact: Qualcomm)							
R2-1816448	Reply LS on maximum output size of SUPI concealment schemes (C1-186992; contact: Ericsson)	CT1	noted	Rel-15	5GS_Ph1-CT	SA3	RAN2, SA2, CT4	C1-186992
R2-1816449	Reply LS on Maximum output size of SUPI concealment schemes (C4-187633; contact: Ericsson)	CT4	noted	Rel-15	NR_newRAT-Core	SA3	CT1, RAN2, SA2	C4-187633
R2-1816659	Reply LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell selection (R6-180181; contact: Nokia)	RAN6	noted	Rel-16	NB_IOTenh3	RAN2	RAN	R6-180181
R2-1818845	Reply LS on UP-EDT procedure when resuming in a new eNB (R3-187034; contact: Intel)	RAN3	noted	Rel-15	LTE_eMTC4-Core, NB_IOTenh2-Core	RAN2		R3-187034
R2-1818857	Reply LS on RRC cause in RRC reestablishment fallback (R3-187082; contact: Huawei)	RAN3	noted	Rel-15	NR_newRAT-Core	RAN2, SA2	CT1	R3-187082
R2-1818925	Reply LS on PHR and SUL (R1-1813951; contact: Huawei)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1813951
R2-1818926	Reply to further reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon (R1-1814066; contact: Ericsson)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1814066
R2-1818927	LS on CORESET 0 (R1-1814068; contact: NTT DOCOMO)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1814068
R2-1818931	Reply on LS on IAB security (S3-183711; contact: Ericsson)	SA3	noted	Rel-16	FS_NR_IAB	RAN2	RAN3	S3-183711
R2-1818973	Reply LS on MIMO layer configuration (R1-1813952; contact: MediaTek)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1813952
R2-1818990	LS on power offset indication for CSI-RS (R1-1813950; contact: Huawei)	RAN1	noted	Rel-15	NR_newRAT-Core	RAN2		R1-1813950
R2-1818991	LS on multiple active configured grant configurations (R1-1814116; contact: NTT DOCOMO)	RAN1	noted	Rel-16	FS_NR_L1enh_URLLC, FS_NR_IIOT	RAN2		R1-1814116
R2-1818992	Reply-LS on Location Service exposure to NG-RAN (S1-183340; contact: Ericsson)	SA1	not treated	Rel-16	FS_NR_pos	SA2, RAN2	RAN3	S1-183340
R2-1819007	Reply LS on NR MIMO layer configuration (R4-1816463; contact: Intel)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2	RAN1	R4-1816463
R2-1819012	LS to RAN2/3 on UP Integrity Protection for Small Data in Early Data Transfer (S3-183652; contact: Huawei)	SA3	noted	Rel-15	TEI15	RAN2, RAN3		S3-183652
R2-1819075	LS on new UE capability for intra-band EN-DC and intra-band NR UL CA (R4-1816623; contact: CHTTL)	RAN4	noted	Rel-15	NR_newRAT-Core	RAN2	RAN1	R4-1816623
R2-1819108	LS on RRC Parameter for Capability 2 Processing Time (R1-1814349; contact: Qualcomm)	RAN1	not treated	Rel-15	NR_newRAT-Core	RAN2		R1-1814349
R2-1819109	LS on RAN1 NR UE features (R1-1814362; contact: NTT DOCOMO and AT&T)	RAN1	not treated	Rel-15	NR_newRAT-Core	RAN, RAN2	RAN4	R1-1814362

60 incoming LS, of which 57 were noted. The non-treated LSin will be handled in RAN2#105.

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Annex D:
Outgoing liaison statements

TDoc	Title	Rel	Related WIs	To	Cc
R2-1818662	LS on RSS based measurements signalling	Rel-16	LTE_eMTC5-Core	RAN1	
R2-1818666	Reply LS on UP Integrity Protection for Small Data in Early Data Transfer	Rel-15	LTE_eMTC4-Core, NB_IOTenh2-Core	SA3	RAN3
R2-1818669	Reply LS on successful completion of early data transmission when eNodeB decided not to have RRC connection	Rel-15	NB_IOTenh2-Core, LTE_eMTC4-Core	CT1	
R2-1818738	LS on NR V2X agreements	Rel-16	FS_NR_V2X	RAN1, RAN3, SA2	
R2-1818748	LS on IAB security	Rel-16	FS_NR_IAB	SA3	RAN3
R2-1818775	LS on UL HARQ operation for SUO case 1	Rel-15	NR_newRAT-Core	RAN1	
R2-1818795	LS on Intra-UE Prioritization/Multiplexing	Rel-16	FS_NR_IIOT	RAN1	
R2-1818796	Reply LS on redundant transmission for URLLC	Rel-16	FS_NR_IIOT	SA2	RAN1, RAN3
R2-1818901	LS on RRC processing delay for BWP switching	Rel-15	NR_newRAT-Core	RAN4	
R2-1818913	LS on SMTC availability issue during cell search	Rel-15	NR_newRAT-Core	RAN1	
R2-1818960	LS for inclusion of Receive Only Mode MBMS service parameters in USD	Rel-15	TEI15	SA4	SA2, RAN1
R2-1818999	Reply LS on network synchronization for handover purposes	Rel-15	NR_newRAT-Core	RAN1	
R2-1819065	Reply LS on supporting low latency and low jitter during handover procedure	Rel-16	FS_URLLC	SA2	RAN3
R2-1819080	LS on DRB integrity protection	Rel-15	NR_newRAT-Core	CT1, RAN3	SA3
R2-1819082	LS on RAT selection for SL	Rel-16	FS_NR_V2X	SA2	RAN3
R2-1819083	LS on RAN2 agreed TPs	Rel-16	FS_NR_V2X	RAN1	
R2-1819084	Reply LS on TCI-state for CORESET#0	Rel-15	NR_newRAT-Core	RAN1	RAN4
R2-1819099	Reply LS on Location Service exposure to NG-RAN	Rel-16	FS_NR_pos	SA2	SA1, RAN3
R2-1819101	LS on PHR procedure in dual-connectivity	Rel-15	NR_newRAT-Core	RAN1	
R2-1819102	LS on BWP ID interpretation for DCI code point	Rel-15	NR_newRAT-Core	RAN1	
R2-1819106	LS on BCS definition for MR-DC options	Rel-15	NR_newRAT-Core	RAN4	
R2-1819107	LS on Determination of Access Identities for AS-triggered Events	Rel-15	NR_newRAT-Core	CT1	
R2-1819110	Reply LS to SA2 on QoS monitoring	Rel-16	FS_NR_IIOT	SA2	RAN3

23 outgoing LS.

Annex E:
List of agreed CRs

Agreed CRs:

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TDoc	Title	Source	Rel	Spec	Related WIs	CR	Rev	Ca
R2-1816269	CR on 36331 Correction for sTTI	LG Electronics Mobile Research	Rel-15	36.331	LTE_sTTIandPT-Core	3666	2	F
R2-1816271	[C204] Handling of timer T380	CATT	Rel-15	38.331	NR_newRAT-Core	0219	1	F
R2-1816272	Remain issue for T302	CATT	Rel-15	38.331	NR_newRAT-Core	0216	2	F
R2-1816301	Correction to description of PO for default association	Samsung Electronics Co., Ltd	Rel-15	38.304	NR_newRAT-Core	0049	2	F
R2-1816321	Correction to description of parameter Ns	Samsung Electronics Co., Ltd	Rel-15	38.331	NR_newRAT-Core	0515		F
R2-1816336	CR on 38.300 for Correction of BWP adaptation	LG Electronics Mobile Research, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0107		F
R2-1816347	Correction for sidelink measurement periodical triggering condition	OPPO	Rel-14	36.331	LTE_V2X-Core	3543	3	F
R2-1816348	Correction for sidelink measurement periodical triggering condition	OPPO	Rel-15	36.331	LTE_V2X-Core	3544	3	F
R2-1816349	Correction for duplication based on Rel-14 TX profile	OPPO	Rel-15	36.300	LTE_eV2X-Core	1193	1	F
R2-1816356	Correction on the scaling between CSI-RS and SSB for BFR	CATT, Ericsson	Rel-15	38.321	NR_newRAT-Core	0423	1	F
R2-1816378	Editorial restructuring of NPRACH resource configuration	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-14	36.331	NB_IOTenh-Core	3494	3	F
R2-1816379	Editorial restructuring of NPRACH resource configuration	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-15	36.331	NB_IOTenh-Core	3495	3	A
R2-1816380	Corrections to random access power control for TDD in 36.321	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-15	36.321	NB_IOTenh2-Core	1362	2	F
R2-1816381	Corrections to random access power control for TDD in 36.331	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-15	36.331	NB_IOTenh2-Core	3580	2	F
R2-1816382	Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-SCS-TDD-r15 and removing twoHARQ-ProcessesTDD	Huawei, HiSilicon	Rel-15	36.306	NB_IOTenh2-Core	1648	2	F
R2-1816383	Clarification of features not supported in NB-IoT	Huawei, HiSilicon	Rel-15	36.300	LTE_5GCN_connect-Core, NR_newRAT-Core, LTE_Aerial-Core	1195	1	F
R2-1816389	Corrections to EDT in 36.331	Huawei, HiSilicon	Rel-15	36.331	NB_IOTenh2-Core, LTE_eMTC4-Core	3582	3	F
R2-1816390	Removal of duplicate rel-15 NB-IoT/eMTC capabilities and introducing TDD-FDD differentiation for WUS capabilities in eMTC	Huawei, HiSilicon	Rel-15	36.306	LTE_eMTC4-Core	1625	2	F
R2-1816391	Msg3 buffer handling for EDT in 36.321	Huawei, HiSilicon, Nokia, Nokia Shanghai Bell	Rel-15	36.321	NB_IOTenh2-Core, LTE_eMTC4-Core	1384	2	F
R2-1816412	RDI handling for data forwarding at handover	Nokia, Ericsson, Huawei, HiSilicon, Nokia Shanghai Bell	Rel-15	38.300	NR_newRAT	0093	2	F
R2-1816413	SON Overview	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT	0091	2	F
R2-1816414	Scheduling Request Overview	Rapporteur (Nokia), Ericsson	Rel-15	38.300	NR_newRAT	0088	2	F
R2-1816415	System Information Provisionning	Rapporteur (Nokia), OPPO, Sanechips, ZTE corporation	Rel-15	38.300	NR_newRAT	0089	1	F
R2-1816418	PDU Session AMBR	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT	0109		F
R2-1816419	Logical channel restrictions clarifications and correction	Rapporteur (Nokia), Apple, Ericsson, NTT DOCOMO, INC., OPPO, Qualcomm	Rel-15	38.300	NR_newRAT	0110		F
R2-1816429	CR on powerControlOffset	vivo	Rel-15	38.331	NR_newRAT-Core	0522		F
R2-1816440	Corrections on Qoffsettemp for eLTE in 36.304	LG Electronics Deutschland	Rel-15	36.304	LTE_5GCN_connect-Core	0752	1	F
R2-1816456	Correction for E-UTRA connected to 5GC Stage-2	OPPO	Rel-15	36.300	LTE_5GCN_connect-Core	1202		F
R2-1816457	Correction for E-UTRA connected to 5GC Stage-3	OPPO	Rel-15	36.331	LTE_5GCN_connect	3698		F
R2-1816468	Correction on MCS for V2X sidelink communication in TS 36.302	Huawei, HiSilicon	Rel-15	36.302	LTE_eV2X-Core	1196	2	F
R2-1816470	Correction on V2X sidelink communication in TS 36.300	Huawei, HiSilicon	Rel-15	36.300	LTE_eV2X-Core	1199	2	F
R2-1816494	38.331CR Corrections on security field descriptions	OPPO	Rel-15	38.331	NR_newRAT-Core	0213	2	F

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R2-1816495	Corrections on 38.304	OPPO	Rel-15	38.304	NR_newRAT-Core	0051	2	F
R2-1816530	Clarification to no barring configuration for Implicit UAC	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0541		F
R2-1816532	Correction to Access Category and barring config determination for Implicit UAC	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0542		F
R2-1816542	Update description of consecutive precoders used for NSSS	Qualcomm Incorporated	Rel-15	36.331	NB_IOTenh2-Core	3585	1	F
R2-1816551	Corrections to multiple SPS configurations after sTTI and HRLLC merge	Ericsson, OPPO	Rel-15	36.331	LTE_HRLLC-Core	3676	1	F
R2-1816555	ECN support in NR	MCC	Rel-15	38.300	NR_newRAT-Core	0035	4	B
R2-1816556	Correction to full configuration	Google Inc., Ericsson, Sharp	Rel-15	38.331	NR_newRAT-Core	0482	2	F
R2-1816581	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	Rel-13	36.306	LTE_CA_enh_b5C-Core	1649	3	F
R2-1816582	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	Rel-14	36.306	LTE_CA_enh_b5C-Core	1650	1	A
R2-1816583	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai Bell	Rel-15	36.306	LTE_CA_enh_b5C-Core	1651	1	A
R2-1816590	Corrections to euCA	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_euCA-Core	3567	1	F
R2-1816591	Corrections to euCA	Nokia, Nokia Shanghai Bell	Rel-15	36.321	LTE_euCA-Core	1361	2	F
R2-1816658	Removal of restriction on RB removal and addition	NTT DOCOMO INC., Sharp	Rel-15	38.331	NR_newRAT-Core	0476	2	F
R2-1816664	CR for security handling upon handover to eLTE in 36.331	ZTE Corporation, Sanechips	Rel-15	36.331	NR_newRAT-Core	3583	2	F
R2-1816665	Clarification on measObjectNR of SFTD between PCell and PSCell	ZTE Corporation, Sanechips	Rel-15	36.331	NR_newRAT-Core	3678	1	F
R2-1816666	CR to 38331 on ul-DataSplitThreshold for SRB	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0248	2	F
R2-1816667	CR for introducing PSCell frequency in CG-Config	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0235	2	F
R2-1816668	CR for security handling upon handover to eLTE in 38.331	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0236	2	F
R2-1816673	Correction on shortMAC-I description in 38.331	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0562		F
R2-1816677	CR on 37.340 for split SRB UL configuration	Huawei, HiSilicon	Rel-15	37.340	NR_newRAT-Core	0067	1	F
R2-1816678	CR on PDCCH monitoring occasions for paging in TS 38.304	ZTE Corporation, Sanechips	Rel-15	38.304	NR_newRAT-Core	0055	2	F
R2-1816679	CR on SI request procedure in TS38.331	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0246	2	F
R2-1816724	Clarification on SRB3 release	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0569		F
R2-1816725	Avoiding security risk for RLC UM bearers during termination point change	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0570		F
R2-1816726	Security for RRC connection release	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0242	2	F
R2-1816728	TS36.304 CR on [103bis#43][LTE/eLTE] Capture NR agreements	Intel Corporation	Rel-15	36.304	LTE_5GCN_connect-Core	0758		F
R2-1816730	TS36.331 CR on Open issues on E-UTRA connected to 5GC for INACTIVE	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3588	2	F
R2-1816731	Open issues on E-UTRA connected to 5GC for UAC	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3587	1	F
R2-1816732	RIL I118 on release case to upper layers for CN paging for a UE in RRC_INACTIVE	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0244	1	F
R2-1816733	Handling on security keys for resume procedure (I774)	Intel Corporation, MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0238	2	F
R2-1816734	Handling on simultaneously triggered NAS/AS events (I770)	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0237	1	F
R2-1816739	Corrections on reestablishment and security procedures	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0243	4	F
R2-1816740	Corrections to the SIB1 acquisition procedure	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0340	2	F
R2-1816741	SI reception upon handover	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0339	2	F
R2-1816742	Suspend and resume of security	Intel Corporation	Rel-15	38.323	NR_newRAT-Core	0022	1	F
R2-1816746	MO configuration with SSB SCS for a give SSB frequency	Intel Corporation	Rel-15	36.331	NR_newRAT-Core	3714		F
R2-1816774	Procedures for full config at RRC Resume	Ericsson	Rel-15	38.331	NR_newRAT-Core	0364	1	F

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R2-1816797	Clarification of PDCP-Config field descriptions	Ericsson	Rel-15	38.331	NR_newRAT-Core	0365	2	F
R2-1816825	UL power control information for PUCCH format 4/5 in SIB	Qualcomm Incorporated	Rel-13	36.331	LTE_CA_enh_b5C-Core	3715		F
R2-1816826	UL power control information for PUCCH format 4/5 in SIB	Qualcomm Incorporated	Rel-14	36.331	LTE_CA_enh_b5C-Core	3716		A
R2-1816827	UL power control information for PUCCH format 4/5 in SIB	Qualcomm Incorporated	Rel-15	36.331	LTE_CA_enh_b5C-Core	3717		A
R2-1816842	Correction for SN terminated MCG bearer	ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell	Rel-15	37.340	NR_newRAT-Core	0079		F
R2-1816863	Clarification on Counter check procedure	Samsung Research America	Rel-15	38.331	NR_newRAT	0302	2	F
R2-1816864	Small correction to paging with wake up signal	ZTE Corporation, Ericsson, Qualcomm Incorporated, Huawei, HiSilicon	Rel-15	36.304	LTE_eMTC4-Core, NB_IOTenh2-Core	0741	3	F
R2-1816880	Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107)	ZTE Corporation	Rel-15	36.331	LCS_LTE_acc_enh-Core	3607	2	F
R2-1816882	UE configuration on re-establishment procedure	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0296	2	F
R2-1816886	RSRP result in SFTD measurement report	MediaTek Inc.	Rel-15	36.331	NR_newRAT-Core	3602	2	F
R2-1816890	SIB size limitation [M201]	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0298	2	F
R2-1816893	Correction on SRS-TPC-CommandConfig	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0299	2	F
R2-1816900	Clarification on RRC state transition	Google Inc.	Rel-15	36.331	LTE_5GCN_connect-Core	3551	2	F
R2-1816901	Correction on system information blocks acquisition	Google Inc.	Rel-15	36.331	LTE_5GCN_connect-Core	3614	2	F
R2-1816903	Clarification on csi-RS-ConfigNZP-EMIMO configuration	MediaTek Inc.	Rel-14	36.331	LTE_eFDMIMO-Core	3726		F
R2-1816904	Clarification on csi-RS-ConfigNZP-EMIMO configuration	MediaTek Inc.	Rel-15	36.331	LTE_eFDMIMO-Core	3727		A
R2-1816908	CR on bwp-InactivityTimer when PDCCH indicating BWP switching is received	OPPO, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell	Rel-15	38.321	NR_newRAT-Core	0406	2	F
R2-1816910	CR on RRC triggered BWP switching while RACH is ongoing	OPPO, Huawei, HiSilicon	Rel-15	38.321	NR_newRAT-Core	0409	2	F
R2-1816915	Correction on the measurement gaps for dense PRS	Huawei, HiSilicon, Qualcomm Incorporated, Ericsson	Rel-15	36.331	LTE_eMTC4-Core	3680	1	F
R2-1816916	Missing UE capability introduction for efeMTC	Huawei, HiSilicon	Rel-15	36.306	LTE_eMTC4-Core	1632	3	F
R2-1816917	Minor corrections to services provided by physical layer	Huawei, HiSilicon	Rel-15	36.302	LTE_eMTC4-Core	1195	2	F
R2-1816923	Correction on FeLAA in TS 36.321	Huawei, HiSilicon	Rel-15	36.321	LTE_unlic-Core	1389		F
R2-1816924	Correction on FeLAA in TS 36.331	Huawei, HiSilicon	Rel-15	36.331	LTE_unlic-Core	3729		F
R2-1816945	Clarification on UDC configuration	CATT, Intel Corporation, Ericsson	Rel-15	36.331	LTE_UDC-Core	3616	2	F
R2-1816975	Clarification on Configuration of multiplePHR for EN-DC and NR-CA	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0460	2	F
R2-1817015	Clarification on the presence of ra-ResponseWindow	Samsung	Rel-15	38.331	NR_newRAT-Core	0187	1	F
R2-1817031	SSBPositionsInBurst misalignement with RAN1	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0320	2	F
R2-1817032	SIB1 missing or not scheduled UE behaviour	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0325	2	F
R2-1817033	SIBs needed before connection setup	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0330	2	F
R2-1817036	SI storing and validity clarification	Nokia, Nokia Shanghai Bell, Samsung	Rel-15	38.331	NR_newRAT-Core	0329	4	F
R2-1817038	ASN.1 correction to fr-InfoListSCG in CG-Config	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0350	2	F
R2-1817039	Clarification for Interruption-based and gap-based SFTD measurement	Nokia, Nokia Shanghai Bell	Rel-15	38.306	NR_newRAT-Core	0016	4	F
R2-1817040	Clarification to UE capability of independentGapConfig for inter-RAT NR measurement not yet configured	Nokia, Nokia Shanghai Bell	Rel-15	38.306	NR_newRAT-Core	0037	1	F

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	with EN-DC							
R2-1817041	MPDCCH monitoring for receiving HARQ ACK feedback	Nokia, Nokia Shanghai Bell	Rel-15	36.321	LTE_eMTC4-Core	1359	4	F
R2-1817119	Remaining aspects of capabilities for Rel-15 Aerial WI	Ericsson, NTT Docomo, Nokia, Nokia Shanghai Bell	Rel-15	36.306	LTE_Aerial-Core	1654	1	F
R2-1817130	Clarification for absense of nr-NS-PmaxList IE	Ericsson	Rel-15	38.331	NR_newRAT-Core	0344	1	F
R2-1817141	Clarification on cell reselection conditions during TreselectionRAT	Ericsson	Rel-15	38.304	NR_newRAT-Core	0087		F
R2-1817145	Correction to monitoring paging in Camped on Any Cell state	Ericsson	Rel-15	38.304	NR_newRAT-Core	0089		F
R2-1817150	Minor corrections to paging	Ericsson	Rel-15	38.300	NR_newRAT-Core	0120		F
R2-1817153	Correction on paging for LTE connected to 5GC	Ericsson	Rel-15	36.304	NR_newRAT-Core	0750	1	F
R2-1817154	Clarification on paging in connected mode	Ericsson	Rel-15	38.331	NR_newRAT-Core	0345	2	F
R2-1817183	On field descriptions on measObjectEUTRA	Ericsson	Rel-15	38.331	NR_newRAT-Core	0333	1	F
R2-1817185	Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14	KDDI, China Mobile, NTT Docomo, Vodafone, Intel, China Telecom, Verizon Wireless	Rel-14	36.306	LTE_CA_enh_b5C-Core, TEI15	1662		F
R2-1817186	On procedural correction on measurements	Ericsson	Rel-15	38.331	NR_newRAT-Core	0342	1	F
R2-1817197	CR to 38.331 on clarification of guami-Type	Ericsson	Rel-15	38.331	NR_newRAT-Core	0249	2	F
R2-1817198	[E201] CR to 36.331 on handling of mapped GUMMEI/GUAMI at idle mode mobility between 5GS and EPS	Ericsson	Rel-15	36.331	NR_newRAT-Core, LTE_5GCN_connect-Core	3592	2	F
R2-1817199	CR to 38.331 on protection of RRC messages table	Ericsson	Rel-15	38.331	NR_newRAT-Core	0252	1	F
R2-1817200	CR to 38.304 on Release and Redirect in 2-step procedure	Ericsson	Rel-15	38.304	NR_newRAT-Core	0056	2	F
R2-1817201	CR to 36.306 on correction of capability name for NW based CRS interference mitigation	Ericsson	Rel-15	36.306	LTE_NW_CRS_IM	1657	1	F
R2-1817254	Correction on SPS configuration for HRLLC	OPPO	Rel-15	36.331	LTE_HRLLC-Core	3572	2	F
R2-1817255	Correction on SPS configuration for HRLLC	OPPO	Rel-15	36.306	LTE_HRLLC-Core	1647	2	F
R2-1817259	Correction to Default MAC Cell Group configuration	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0445	2	F
R2-1817260	Correction to missing field descriptions of PLMN identity	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0447	1	F
R2-1817261	Correction to Ambiguous Terminologies with respect to Cell Ranking	Samsung Electronics	Rel-15	38.304	NR_newRAT-Core	0063	2	D
R2-1817275	Preamble power ramping	Fujitsu	Rel-15	38.321	NR_newRAT-Core	0399	5	F
R2-1817301	[E255] CR to 38.331 on corrections related to CGI reporting timer T321	Ericsson	Rel-15	38.331	NR_newRAT-Core	0371	2	F
R2-1817302	CR to 36.331 on addition of CGI reporting timer T321 for NR	Ericsson	Rel-15	36.331	NR_newRAT-Core	3628	2	F
R2-1817314	Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-DC (36.300)	Ericsson	Rel-15	36.300	NR_newRAT-Core	1200	3	F
R2-1817315	Update of nas-SecurityParamFromNR according to LS from SA3 (38.331)	Ericsson	Rel-15	38.331	NR_newRAT-Core	0439	1	F
R2-1817335	Correction to inter-RAT measurement for NR	Spreadtrum Communications	Rel-15	36.331	NR_newRAT-Core	3577	2	F
R2-1817383	UE capabilty for IDC mechanism for EN-DC operation	Qualcomm Incorporated	Rel-15	36.306	NR_newRAT-Core	1652	1	F
R2-1817384	UE capabilty for IDC mechanism for EN-DC operation	Qualcomm Incorporated	Rel-15	36.331	NR_newRAT-Core	3599	2	F
R2-1817386	Additional UE capabilities for NR standalone	Qualcomm Incorporated	Rel-15	38.306	NR_newRAT-Core	0035	2	F
R2-1817387	Timer based BWP switching	Qualcomm Incorporated	Rel-15	38.306	NR_newRAT-Core	0033	1	F
R2-1817388	Correction to FDD/TDD Diff for NR PDCP Capabilities	Qualcomm Incorporated	Rel-15	36.331	NR_newRAT-Core	3674	1	F
R2-1817407	Correction of SPSConfigDL-STTI	Ericsson	Rel-15	36.331	LTE_sTTIandPT	3750		F
R2-1817408	RRC corrections for URLLC	Ericsson	Rel-15	36.331	LTE_HRLLC	3751		F
R2-1817423	Correction on flight path information	Huawei, HiSilicon	Rel-15	36.331	LTE_Aerial-Core	3656	1	F

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R2-1817424	Correction on measurement triggering based on number of cells	Huawei, HiSilicon	Rel-15	36.331	LTE_Aerial-Core	3657	1	F
R2-1817425	Correction on triggering idle mode measurement	Huawei, HiSilicon	Rel-15	36.331	LTE_euCA-Core	3658	2	F
R2-1817426	SPS for TDD sTTI	Huawei, HiSilicon	Rel-15	36.331	LTE_sTTIandPT-Core	3660	2	F
R2-1817427	skipUplinkTxSPS for short TTI option 1	Huawei, HiSilicon, Ericsson	Rel-15	36.331	LTE_sTTIandPT-Core	3661	3	F
R2-1817428	correction on power control	Huawei, HiSilicon	Rel-15	36.331	LTE_sTTIandPT-Core	3663	2	F
R2-1817434	Clarification for cqi-ReportPeriodic	Huawei, HiSilicon	Rel-15	36.331	LTE_sTTIandPT-Core	3755		F
R2-1817437	Correction on T331 description	Huawei, HiSilicon	Rel-15	36.331	LTE_euCA-Core	3758		F
R2-1817438	Correction on validityArea description	Huawei, HiSilicon	Rel-15	36.331	LTE_euCA-Core	3759		F
R2-1817441	Correction of BWP switching when SUL is configured	Huawei, HiSilicon, ZTE, Sanechips	Rel-15	38.321	NR_newRAT-Core	0452	3	F
R2-1817478	CR for TS38.331 on MIB	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0199	2	F
R2-1817479	CR for TS38.331 on PDCCH-ConfigSIB	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0200	1	F
R2-1817493	Correction on Dual Connectivity MAC CE	Nokia, Nokia Shanghai Bell, NTT DOCOMO, INC.	Rel-15	36.321	NR_newRAT-Core	1393		F
R2-1817498	Clarification on HARQ RTT for SUO case 1	Nokia, Nokia Shanghai Bell, Ericsson	Rel-15	36.321	NR_newRAT-Core	1394		F
R2-1817537	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Hisilicon	Rel-15	36.331	NB_IOT-Core	3763		F
R2-1817540	Correction to CRS Muting Capability	Huawei, HiSilicon	Rel-15	36.306	LTE_eMTC4-Core	1666		F
R2-1817571	Small data burst calculation clarification and corrections	Ericsson,Nokia, Nokia Shanghai Bell, Huawei	Rel-15	36.314	TEI15	0058		F
R2-1817586	UE context handling during handover to NR	Ericsson, Google Inc.	Rel-15	38.331	NR_newRAT-Core	0368	2	F
R2-1817587	UE context handling during handover to LTE-5GC	Ericsson, Google Inc.	Rel-15	36.331	NR_newRAT-Core	3622	2	F
R2-1817601	Correction to beam failure detection in Stage-2	Rapporteur (Nokia), Qualcomm, Nokia Shanghai Bell	Rel-15	38.300	NR_newRAT	0103	1	F
R2-1817602	Correction to BFR procedure	Nokia, CATT, Huawei, HiSilicon, Nokia Shanghai Bell	Rel-15	38.321	NR_newRAT	0488	2	F
R2-1817620	Introducing procedure for reporting RLC failures	Samsung Telecommunications	Rel-15	38.331	NR_newRAT-Core	0376	2	B
R2-1817621	Corrections regarding RLC failure reporting	Samsung Telecommunications	Rel-15	36.331	NR_newRAT-Core, LTE_HRLLC-Core	3629	2	F
R2-1817649	Corrections to System Information	Huawei, HiSilicon, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0074	2	F
R2-1817650	Correction to SI provision in connected mode	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0434	1	F
R2-1817651	Corrections to the field decriptions of System Information	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0431	2	F
R2-1817662	Clarification of mobility state detection criteria	Huawei, HiSilicon	Rel-15	38.304	NR_newRAT-Core	0067	2	F
R2-1817665	Correction to Mobility in RRC_IDLE	Huawei, HiSilicon	Rel-15	38.300	NR_newRAT-Core	0131		F
R2-1817673	Add t-ReselectionNR-SF in SIB2	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0682		F
R2-1817674	freqBandIndicatorNR correction in MultiFrequencyBandListNR-SIB	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0683		F
R2-1817679	A3 and A5 corrections - neighbouring cell definition	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0335	2	F
R2-1817694	Corrections on CFRA BFR termination	InterDigital	Rel-15	38.321	NR_newRAT-Core	0432	2	F
R2-1817701	Correction on the field description of DRX timers	Intel Corporation, Ericsson (Rapporteur)	Rel-15	38.331	NR_newRAT-Core	0686		F
R2-1817715	Update of the usage of QCL type-C	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0692		F
R2-1817738	38.304 CR on derivation of N for paging	Futurewei Technologies	Rel-15	38.304	NR_newRAT-Core	0099		F
R2-1817745	Clarifications on RNA update and CN registration (N023)	Ericsson	Rel-15	38.331	NR_newRAT-Core	0411	1	F
R2-1817746	Invalidation of L1 prmtr	Ericsson	Rel-15	38.331	NR_newRAT-Core	0410	1	F
R2-1817772	Correction of UE capability for eV2X in TS 36.306	Qualcomm Incorporated	Rel-15	36.306	LTE_eV2X-Core	1656	2	F
R2-1817774	Removal of redefinition of MCS-PSSCH-Range-r15	Qualcomm Incorporated	Rel-15	36.331	LTE_eV2X-Core	3675	3	F

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R2-1817816	Bandwidth configuration for initial BWP	Ericsson	Rel-15	38.331	NR_newRAT-Core	0502	1	F
R2-1817817	Clarification on ssb-PositionsInBurst	Ericsson	Rel-15	38.331	NR_newRAT-Core	0417	1	F
R2-1817818	Correction to commonControlResourceSet	Ericsson	Rel-15	38.331	NR_newRAT-Core	0418	2	F
R2-1817819	Correction to TDD configuration in SIB1	Ericsson	Rel-15	38.331	NR_newRAT-Core	0420	1	F
R2-1817820	Clarification on handling of default parameters	Ericsson	Rel-15	38.331	NR_newRAT-Core	0421	2	F
R2-1817824	Correction to aperiodicTriggeringOffset	Ericsson	Rel-15	38.331	NR_newRAT-Core	0701		F
R2-1817831	Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-UTRA/5GC or E-UTRAN	Qualcomm India Pvt Ltd	Rel-15	36.331	LTE_5GCN_connect-Core	3601	2	F
R2-1817838	Alignment of IE/field names between LPP and RRC specifications	Qualcomm Incorporated	Rel-15	36.355	LCS_LTE_acc_enh-Core	0230	1	F
R2-1817839	Signalling flow for transitions from RRC_INACTIVE to RRC_IDLE	Huawei, HiSilicon, Nokia (Rapporteur)	Rel-15	38.300	NR_newRAT-Core	0087	2	F
R2-1817852	CR to 36.331 on reporting of NR serving frequencies which the UE is not configured to measure	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3781		F
R2-1817859	Correction on cell sorting for periodical measurement reporting	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0275	1	F
R2-1817861	Clarification on the smtc signalled for intra-NR handover, PSCell change or SCell addition	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0270	3	F
R2-1817862	CR on fallback to the setup procedure	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0273	3	F
R2-1817863	RRC connection release triggered by upper layers	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0382	2	F
R2-1817864	Correction of frequency band indication in MeasObjectNR	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0379	2	F
R2-1817866	CR on threshold description for cell quality derivation	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0278	1	F
R2-1817867	CR to avoid unnecessary L3 filtered beam measurements	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0282	1	F
R2-1817868	CR on ssb-ToMeasure in MeasurementTimingConfiguration	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0267	2	F
R2-1817894	Clarification on SI acquisition time enhancements in Rel-15	Ericsson	Rel-15	36.331	LTE_eMTC4-Core	3642	2	F
R2-1817896	Addition of TDD UL/DL configuration to OTDOA assistance data	Qualcomm Incorporated	Rel-15	36.355	TEI15	0213	3	F
R2-1817897	Addition of RTK Assistance Data	Qualcomm Incorporated	Rel-15	38.305	NR_newRAT-Core	0006		F
R2-1817905	Correction to MAC PDU subheaders including eLCID	Qualcomm Incorporated	Rel-15	36.321	INOBEARRAN	1366	2	F
R2-1817918	CR for triggers for abortion of RRC establishment	Ericsson	Rel-15	38.331	NR_newRAT-Core	0402	1	F
R2-1817922	E573 Configuration of SRB1 during Resume	Ericsson	Rel-15	38.331	NR_newRAT-Core	0396	2	F
R2-1817981	CR to 38.331 on pendingRNAUpdate setting	Ericsson	Rel-15	38.331	NR_newRAT-Core	0375	3	F
R2-1818003	CR on correction on the allowedBC-ListMRDC	Huawei, Hisilicon	Rel-15	38.331	NR_newRAT-Core	0475	1	F
R2-1818022	Stage2 Corrections on UE capability	Huawei, HiSilicon, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0075	2	F
R2-1818023	Introdcution of including EUTRA UE capability for MRDC usage	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3525	3	F
R2-1818041	Missing optionality bit in CG-ConfigInfo	Ericsson, Qualcomm Inc	Rel-15	38.331	NR_newRAT-Core	0412	2	F
R2-1818044	Correction to cell selection parameters	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0732		F
R2-1818072	Corrections on time reference information	Huawei, HiSilicon	Rel-15	36.331	LTE_HRLLC-Core	3654	2	F
R2-1818073	Correction on UE behaviour about referenceSFN	Huawei, HiSilicon	Rel-15	36.331	LTE_HRLLC-Core	3655	2	F
R2-1818074	Corrections to TS 36.304 for E-UTRA connected to 5GC	Huawei, HiSilicon	Rel-15	36.304	LTE_5GCN_connect-Core	0744	4	F
R2-1818075	Corrections for E-UTRA connected to 5GC	Huawei, HiSilicon	Rel-15	36.331	LTE_5GCN_connect-Core	3653	2	F
R2-1818093	Correction on RRC establishment cause for LTE-5GC	Huawei, HiSilicon	Rel-15	36.331	LTE_5GCN_connect-Core	3789		F
R2-1818104	Introducing PDCP suspend procedure	LG Electronics Inc.	Rel-15	38.323	NR_newRAT-Core	0023		F
R2-1818117	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	Rel-14	36.321	LTE_VoLTE_ViLTE_enh	1377	2	F
R2-1818124	Corrections on P-Max description	CMCC	Rel-15	38.331	NR_newRAT-Core	0457	1	F
R2-1818125	Correction on definition of PEMAX1,	CMCC	Rel-15	38.304	NR_newRAT-Core	0066	2	F

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	PEMAX2							
R2-1818143	RA triggers	Huawei, HiSilicon, Rapporteur (Nokia), Qualcomm Incorporated, Ericsson	Rel-15	38.300	NR_newRAT-Core	0106	2	F
R2-1818152	Handling of Msg3 size allocated by RAR mismatch during CBRA procedure	Huawei, HiSilicon	Rel-15	38.321	NR_newRAT-Core	0575		F
R2-1818181	Various sTTI corrections	Intel Corporation	Rel-15	36.331	LTE_sTTIandPT	3643	2	F
R2-1818182	Various sTTI corrections	Intel Corporation	Rel-15	36.306	LTE_sTTIandPT	1659	2	F
R2-1818212	Clarification on capabilities transferring	Google Inc.	Rel-15	36.331	NR_newRAT-Core	3578	1	F
R2-1818217	Cleanup on handover to EUTRA procedure	Google Inc.	Rel-15	36.331	NR_newRAT-Core, LTE_5GCN_connect-Core	3600	2	F
R2-1818219	Correction to DRB release	Google Inc., Ericsson, NTT DOCOMO, INC.	Rel-15	36.331	NR_newRAT-Core	3576	3	F
R2-1818240	Clarification on configured grant timer in 38.331	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0229	2	F
R2-1818255	Correction on SRB4 for QoE measurement collection	Huawei, HiSilicon, Intel Corporation	Rel-15	36.331	LTE_QMC_Streaming-Core	3652	1	F
R2-1818256	Correction on Bluetooth and WLAN measurement collection in MDT	Huawei, HiSilicon, Intel Corporation	Rel-15	36.331	LTE_MDT_BT_WLAN-Core	3651	3	F
R2-1818310	CR on SI Message Acquisition	Samsung Electronics Co., Ltd	Rel-15	38.331	NR_newRAT-Core	0438	3	F
R2-1818368	CR on supporting of the ROHC for PDCP duplication	LG Electronics Inc.	Rel-15	36.323	LTE_eV2X-Core	0243	2	F
R2-1818378	Correction on conditional presence of PCellOnly	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0469	2	F
R2-1818408	Flushing HARQ buffer for carrier reselection	LG Electronics Inc.	Rel-15	36.321	LTE_eV2X-Core	1355	3	F
R2-1818429	Introduction of Data Inactivity Timer	Ericsson	Rel-15	38.321	NR_newRAT-Core	0475	2	F
R2-1818430	Correction for Reconfiguration of CFRA during ongoing RA	Ericsson	Rel-15	38.321	NR_newRAT-Core	0471	2	F
R2-1818431	Clarification on ciphering MAC-I	Ericsson, LG Electronics	Rel-15	38.323	NR_newRAT-Core	0024		F
R2-1818434	Clarification for CCCH1	Ericsson, Samsung	Rel-15	38.321	NR_newRAT-Core	0587		F
R2-1818464	Header Decompression for SLRB	Samsung	Rel-15	36.323	LTE_eV2X-Core	0265		F
R2-1818487	CR on description of k0	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0781		F
R2-1818494	Some NR SA related corrections	Samsung Telecommunications	Rel-15	36.331	NR_newRAT-Core, LTE_HRLLC-Core	3634	2	F
R2-1818499	Capture use of motion information from motion sensors	Nokia, Nokia Shanghai Bell	Rel-15	36.305	LCS_LTE_acc_enh-Core	0077	2	F
R2-1818500	Capture use of motion information from motion sensors	Nokia, Nokia Shanghai Bell	Rel-15	38.305	NR_newRAT-Core	0007	1	F
R2-1818501	Clarification of the values for RangeToBestCell	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0719	1	F
R2-1818505	Handling of Resume Failure	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0179	3	F
R2-1818508	Miscellaneous Corrections in Paging	Qualcomm Incorporated	Rel-15	38.304	NR_newRAT-Core	0075	1	F
R2-1818509	Clarification of Paging Monitoring Occasion	Qualcomm Incorporated	Rel-15	38.304	NR_newRAT-Core	0047	4	F
R2-1818515	Clarification on B events in EN-DC	Apple	Rel-15	36.331	NR_newRAT-Core	3679	2	F
R2-1818519	Clarification on SSB-based BM, RLM and BFD	ZTE Corporation, Sanechips	Rel-15	38.300	NR_newRAT-Core	0102	2	F
R2-1818520	Miscellaneus clarifications	ZTE Corporation, Sanechips, Huawei, HiSilicon	Rel-15	37.340	NR_newRAT-Core	0071	1	F
R2-1818535	Clarification on basic voice support	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0095	2	F
R2-1818536	CR on Slice Aware Access Control	Nokia, Nokia Shanghai Bell, Huawei, HiSilicon	Rel-15	38.300	NR_newRAT-Core	0028	5	F
R2-1818538	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_5GCN_connect-Core	3553	1	F
R2-1818539	Addition of RAN specific Access Category	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0188	3	F
R2-1818540	Clarification to no barring configuration for Implicit UAC	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_5GCN_connect-Core	3554	1	F
R2-1818541	Correction to Access Category and barring config determination for Implicit UAC	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_5GCN_connect-Core	3555	1	F

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R2-1818548	Correction on CN type indication for Redirection from NR to E-UTRA	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0406	2	F
R2-1818549	CR on UE behaviour upon lack of TAC in SIB1	Nokia, Nokia Shanghai Bell	Rel-15	38.304	NR_newRAT-Core	0074	2	F
R2-1818550	Introduction of power boosting indicator for pi2BPSK waveform	IITH, IITM, CeWIT, Nokia, Nokia Shanghai Bell, Mediatek	Rel-15	38.331	NR_newRAT-Core	0474	3	B
R2-1818551	CR for TS38.331 on PowerControl-related issues	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0391	2	F
R2-1818552	Correction to PDCP statusReportRequired	LG Electronics Inc.	Rel-15	38.331	NR_newRAT-Core	0449	2	F
R2-1818553	Introducing PDCP suspend procedure	LG Electronics Inc.	Rel-15	38.331	NR_newRAT-Core	0448	2	F
R2-1818554	Corrections on the IDLE state measurement	vivo	Rel-15	36.331	LTE_euCA-Core	3560	3	F
R2-1818558	Correction in 38331 for SRS-config	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0388	2	F
R2-1818559	TS36.331 CR on [103bis#43][LTE/eLTE] Capture NR agreements	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3713	1	F
R2-1818560	Corrections for Inter-RAT handover from E-UTRA in TS36.331	Huawei, HiSilicon	Rel-15	36.331	LTE_5GCN_connect-Core	3746	1	F
R2-1818561	Correction to the system information in Handover Request message	Huawei, HiSilicon, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0086	2	F
R2-1818562	Corrections for handover between NR and E-UTRA	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0260	4	F
R2-1818563	Corrections for handover between NR and E-UTRA in TS36.331	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3597	5	F
R2-1818578	CR to 38.331 on removing FFS of locationInfo	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0783	1	F
R2-1818594	Sensor Assistance Data Elements Correction	Polaris Wireless, Intel	Rel-15	36.355	TEI15	0232	1	F
R2-1818595	Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14	KDDI, China Mobile, NTT Docomo, Vodafone, Intel, China Telecom, Verizon Wireless	Rel-15	36.306	LTE_CA_enh_b5C-Core, TEI15	1661	1	A
R2-1818596	MBMS reception in Receive Only Mode	Qualcomm India Pvt Ltd	Rel-15	36.300	TEI15	1207	1	B
R2-1818597	MBMS reception in Receive Only Mode	Qualcomm India Pvt Ltd	Rel-15	36.331	TEI15	3776	1	B
R2-1818599	CR for T312 on LTE HetNet mobility	Intel Corporation	Rel-15	36.331	HetNet_eMOB_LTE-Core	3506	5	F
R2-1818600	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	Rel-14	36.331	LTE_UL_CAP_enh-Core	3556	3	F
R2-1818601	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_UL_CAP_enh-Core	3557	3	A
R2-1818607	CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation	ZTE Corporation, Sanechips	Rel-14	36.331	TEI14	3672	2	F
R2-1818610	CR to 36.331 on correction of field descriptions for NW based CRS interference mitigation	Ericsson	Rel-15	36.331	LTE_NW_CRS_IM	3739	1	F
R2-1818611	Correction on HARQ process ID for synchronous HARQ operation	Nokia, Nokia Shanghai Bell	Rel-15	36.321	LTE_sTTIandPT-Core	1392	1	F
R2-1818622	Transport of NAS Messages	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT	0090	3	F
R2-1818623	Notification Control	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT	0108	1	F
R2-1818626	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Hisilicon	Rel-13	36.331	NB_IOT-Core	3761	1	F
R2-1818627	Correction on interFreqNeighCellList	Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Hisilicon	Rel-14	36.331	NB_IOT-Core	3762	1	A
R2-1818628	Correction to additional SIB1 in eFeNB-IoT	ZTE Corporation, BlackBerry UK Ltd	Rel-15	36.331	NB_IOTenh2-Core	3619	3	F
R2-1818629	Clarification of features not supported in NB-IoT	Huawei, HiSilicon	Rel-15	36.331	LTE_5GCN_connect-Core, NR_newRAT-Core, LTE_Aerial-Core	3691	1	F
R2-1818630	Miscellaneous corrections and cleanup for NB-IoT Rel-15	Huawei, HiSilicon	Rel-15	36.331	NB_IOTenh2-Core	3581	2	F
R2-1818631	Introduction of TDD UL/DL configuration for NB-IoT in 36.355	Huawei, HiSilicon, BlackBerry UK Ltd	Rel-15	36.355	NB_IOTenh2-Core	0228	2	F
R2-1818632	Correction to gap determination for the	Huawei, HiSilicon	Rel-15	36.304	NB_IOTenh2-Core,	0757	1	F

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	wake-up signal				LTE_eMTC4-Core			
R2-1818635	Correction to start of RAR window for NPRACH fmt2 in 36.321	Huawei, HiSilicon	Rel-15	36.321	NB_IOTenh2-Core	1387	2	F
R2-1818649	Description of RLM aspects	ZTE Corporation, Sanechips, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0116	1	F
R2-1818650	Clarification on dynamic grant override configured grant	vivo, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0083	3	F
R2-1818651	Corrections on paging monitoring and SI acquisition in RRC_CONNECTED for BL UEs and UEs in CE	Ericsson, BlackBerry UK Ltd	Rel-15	36.331	LTE_MTCe2_L1-Core	3647	2	F
R2-1818652	Corrections and clarifications for MO EDT	Ericsson	Rel-15	36.331	NB_IOTenh2-Core, LTE_eMTC4-Core	3605	4	F
R2-1818653	Corrections to EDT in 36.321	Huawei, HiSilicon	Rel-15	36.321	NB_IOTenh2-Core, LTE_eMTC4-Core	1363	4	F
R2-1818654	EDT when resuming in a new eNB	Intel Corporation	Rel-15	36.300	LTE_eMTC4-Core, NB_IOTenh2-Core	1197	2	F
R2-1818656	Corrections on falllback cases in EDT	Ericsson	Rel-15	36.321	NB_IOTenh2-Core, LTE_eMTC4-Core	1370	4	F
R2-1818657	Clarification to UE states for EDT	Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, ZTE Corporation, BlackBerry UK Ltd Sequans Communications, Gemalto, Qualcomm Incorporated	Rel-15	36.331	NB_IOTenh2-Core, LTE_eMTC4-Core	3796	1	F
R2-1818659	Corrections on EDT	Ericsson	Rel-15	36.300	NB_IOTenh2-Core, LTE_eMTC4-Core	1203	1	F
R2-1818660	Exclusion of 1.4 MHz system bandwidth for flexible starting PRB	Ericsson	Rel-15	36.331	LTE_eMTC4-Core	3712	1	F
R2-1818667	Additional Corrections to EDT in 36.331	Huawei, HiSilicon	Rel-15	36.331	NB_IOTenh2-Core, LTE_eMTC4-Core	3692	2	F
R2-1818668	Remaining MO EDT issues	Ericsson	Rel-15	36.331	NB_IOTenh2-Core, LTE_eMTC4-Core	3709	2	F
R2-1818681	Clarification on final suitability check	Huawei, HiSilicon	Rel-15	38.304	NR_newRAT-Core	0062	4	F
R2-1818683	CR on 38.304 corrections	Intel Corporation	Rel-15	38.304	NR_newRAT-Core	0097	1	F
R2-1818684	Correction for missing fields in SIB2 and SIB4	Ericsson	Rel-15	38.331	NR_newRAT-Core	0603	1	F
R2-1818688	Correction to cell access barring alleviation in cell reselection	Huawei, HiSilicon	Rel-15	38.304	NR_newRAT-Core	0096	1	F
R2-1818689	Miscellaneous corrections related to idle mode SIBs	Ericsson	Rel-15	38.331	NR_newRAT-Core	0602	1	F
R2-1818692	Ignore NCC and IP check failure handling on reception of resume message	ZTE Corporation, Sanechips	Rel-15	36.331	NR_newRAT-Core	3718	1	F
R2-1818693	Miscellaneous corrections on E-UTRA connected to 5GCN	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3586	2	F
R2-1818694	Clarification on s-Measure for IDLE mode measurements	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_euCA-Core	3708	1	F
R2-1818695	Correction on PDCP duplication option 2	Huawei, HiSilicon	Rel-15	36.323	LTE_HRLLC-Core	0255	4	F
R2-1818696	Support of multiple UL SPS configurations and configuration of repetition	Ericsson GmbH, Eurolab	Rel-15	36.331	LTE_HRLLC-Core	3707	1	F
R2-1818700	Corrections to CellSelectionInfo in SIB1	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0684	1	F
R2-1818711	Correction on HARQ re-transmission resource selection	OPPO	Rel-14	36.321	LTE_V2X-Core	1385	1	F
R2-1818712	Correction on HARQ re-transmission resource selection	OPPO	Rel-15	36.321	LTE_V2X-Core	1386	1	A
R2-1818713	Correction on UE capability	OPPO	Rel-15	36.331	LTE_eV2X-Core	3548	3	F
R2-1818714	Correction on PDCP for eV2X	OPPO	Rel-15	36.323	LTE_eV2X-Core	0249	3	F
R2-1818715	Correction on V2X sidelink communication in TS 36.321	Huawei, HiSilicon	Rel-15	36.321	LTE_eV2X-Core	1365	3	F
R2-1818716	Miscellaneous corrections in TS 36.331 on eV2X	Huawei, HiSilicon	Rel-15	36.331	LTE_eV2X-Core	3584	4	F
R2-1818717	eV2X clean-up except for UL and SL prioritization in TS 36 321	LG Electronics	Rel-15	36.321	LTE_eV2X-Core	1357	5	F
R2-1818718	UL and SL prioritization in TS 36 321_alt2 (transmit z)	LG Electronics	Rel-15	36.321	LTE_eV2X-Core	1383	4	F
R2-1818719	CR on carrier frequency indication in	Huawei, HiSilicon	Rel-15	36.331	LTE_eV2X-Core	3700	1	F

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	SidelinkUEInformation (Opt 2)							
R2-1818720	Correction on UE capability	OPPO	Rel-15	36.306	LTE_eV2X-Core	1646	3	F
R2-1818723	Clarification to Mode-3 Procedures	Ericsson	Rel-15	36.321	LTE_eV2X-Core	1395	1	F
R2-1818726	Correction to packet delivery and maintenance of state variables for sidelink transmission and reception	ASUSTeK	Rel-15	36.323	LTE_eV2X-Core	0264	1	F
R2-1818734	Clarification for SLSS_TxDisabled	LG Electronics Inc.	Rel-15	36.331	LTE_eV2X-Core	3665	3	F
R2-1818735	Clarification to Sidelink PDCP Duplication	Ericsson	Rel-15	36.321	LTE_eV2X-Core	1396	2	F
R2-1818736	Clarification to TX Carrier (re)-Selection for V2X Sidelink Communication	Ericsson	Rel-15	36.321	LTE_eV2X-Core	1397	2	F
R2-1818749	Miscellaneous corrections	Samsung	Rel-15	38.321	NR_newRAT-Core	0411	3	F
R2-1818754	Corrections for alignments in RACH resource selection	Huawei, HiSilicon	Rel-15	38.321	NR_newRAT-Core	0551	1	F
R2-1818755	Correction on the RO selection for PDCCH order triggered RA	Huawei, HiSilicon	Rel-15	38.321	NR_newRAT-Core	0553	1	F
R2-1818756	Correction to RA prioritization	Nokia, Nokia Shanghai Bell	Rel-15	38.321	NR_newRAT	0486	3	F
R2-1818758	RA Preamble Selection Procedure	Samsung Electronics Co., Ltd	Rel-15	38.321	NR_newRAT-Core	0413	2	F
R2-1818761	Correction on power backoff indication due to Power management	Nokia, Nokia Shanghai Bell, Ericsson, Lenovo, NTT DOCOMO, INC.	Rel-15	38.321	NR_newRAT-Core	0445	2	F
R2-1818771	Correction to value table for recommended bit rate MAC CE	Qualcomm Inc	Rel-15	38.321	NR_newRAT-Core	0582	1	F
R2-1818773	Correction on BSR triggered SR	Huawei, HiSilicon, Samsung, LG Electronics Inc., CATT	Rel-15	38.321	NR_newRAT-Core	0459	2	F
R2-1818774	Clarification on LCH-to-cell restriction	Apple, ASUSTeK, CATT, China Telecom, China Unicom, Ericsson, Intel Corporation, Interdigital, Lenovo, Nokia, Nokia Shanghai Bell, NTT DoCoMo Inc, Qualcomm Incorporated, Spreadtrum, ZTE	Rel-15	38.321	NR_newRAT-Core	0535	1	F
R2-1818776	Allowing padding when UL grant size is larger than 8 bytes	OPPO	Rel-15	38.321	NR_newRAT-Core	0523	1	F
R2-1818777	Ambiguity of POLL_SN update timing	LG Electronics Inc.	Rel-15	38.322	NR_newRAT-Core	0028	1	F
R2-1818786	Msg3 handling for swtiching from CBRA to CFRA	Samsung Electronics Co., Ltd	Rel-15	38.321	NR_newRAT-Core	0303	6	F
R2-1818791	Correction for Msg3 grant overlapping with another UL grant	CATT	Rel-15	38.321	NR_newRAT-Core	0421	3	F
R2-1818792	Handling of overlapped configured grant and UL grant received in RAR	Huawei, HiSilicon	Rel-15	38.321	NR_newRAT-Core	0505	2	F
R2-1818798	Correction to PHR procedure in EN-DC	Qualcomm Incorporated	Rel-15	36.321	NR_newRAT-Core	1404	3	F
R2-1818799	Correction to PHR procedure in dual connectivity	Qualcomm Incorporated	Rel-15	38.321	NR_newRAT-Core	0593	3	F
R2-1818821	Clarification of AMF switch in RRC_INACTIVE	Ericsson, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0084	2	F
R2-1818822	Corrections on NUL and SUL descriptions	Huawei, HiSilicon, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0127	1	F
R2-1818823	SFN offset for OTDOA	Intel Corporation, Nokia	Rel-15	36.355	NR_newRAT-Core	0229	3	F
R2-1818824	CR on the carrier selection for random access	ITRI, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0134	1	F
R2-1818825	Corrections on Multi-Radio dual connectivity	Ericsson, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0137	1	F
R2-1818826	Defining inter-system and intra-system handover	Ericsson, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0097	3	F
R2-1818827	Correction regarding key deletion at state transition to RRC IDLE	Ericsson, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0099	3	F
R2-1818828	Correction of activation of Scells	Ericsson, Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT-Core	0115	2	F
R2-1818829	SSBurst and SSB relations in 38.300	Ericsson	Rel-15	38.300	NR_newRAT-Core	0096	2	F
R2-1818830	Clarification on power ramping counter	OPPO, Fujitsu,	Rel-15	38.300	NR_newRAT-Core	0125	1	F

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		Qualcomm						
R2-1818833	Correction of SN Initiated SN Modification procedure for Measurement Gap	Ericsson, Rapporteur (ZTE Corporation)	Rel-15	37.340	NR_newRAT-Core	0085	2	F
R2-1818835	Removing NG-RAN specific statements	Ericsson, Nokia, Nokia Shanghai Bell	Rel-15	36.300	NR_newRAT-Core	1209	1	F
R2-1818840	Cleanup of references to L1 specifications	Ericsson	Rel-15	38.331	NR_newRAT-Core	0694	1	F
R2-1818841	Corrections on SSB power	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0552	1	F
R2-1818842	Introduction of cell level rate matching parameters in ServingCellConfig	ZTE Corporation, Sanechips, Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0234	3	F
R2-1818843	Correction for support of initial downlink BWP	Ericsson	Rel-15	38.331	NR_newRAT-Core	0601	1	F
R2-1818844	Clarification on phr-Type2OtherCell	Samsung	Rel-15	38.331	NR_newRAT-Core	0591	1	F
R2-1818847	Correction to ControlResourceSetZero	ZTE Corporation, Sanechips, Ericsson	Rel-15	38.331	NR_newRAT-Core	0580	1	F
R2-1818848	Corrections on SearchSpace configuration	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0554	1	F
R2-1818849	CR on starting bit of Format 2-3	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0656	1	F
R2-1818850	Search space configuration for DCI format 2_0 monitoring	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0646	1	F
R2-1818854	Corrections to the applicability of 38.331 to EN-DC	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0269	3	F
R2-1818855	CR on PSCell (SPCell of SN) change (36.331)	Samsung Electronics GmbH	Rel-15	36.331	NR_newRAT-Core	3799	1	F
R2-1818858	MO configuration with SSB SCS for a give SSB frequency	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0571	1	F
R2-1818859	Correction to configuration of measurement object	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0384	3	F
R2-1818863	Missing need code for refFreqCSI-RS	Ericsson	Rel-15	38.331	NR_newRAT-Core	0696	1	F
R2-1818864	CR to 38.331 on associatedSSB	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0711	1	F
R2-1818866	CR to 38.331 on NR serving cell measurements	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0715	1	F
R2-1818868	Clarification of measurement object for beam reporting of NR cells	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0772	1	F
R2-1818869	CR on measurement related actions upon handover and re-establishment	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0277	2	F
R2-1818870	Stage 2 CR on Measurement gap configuration scenarios	Intel Corporation	Rel-15	38.300	NR_newRAT-Core	0133	1	F
R2-1818871	Stage 2 CR on Measurement gap configuration scenarios	Intel Corporation	Rel-15	37.340	NR_newRAT-Core	0086	1	F
R2-1818872	Stage 2 CR on Measurement gap configuration scenarios	Intel Corporation	Rel-15	36.300	NR_newRAT-Core	1206	1	F
R2-1818873	Correction of MeasResultEUTRA	Ericsson	Rel-15	38.331	NR_newRAT-Core	0695	1	F
R2-1818874	CR on CGI reporting	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0283	2	F
R2-1818875	Correction to offsetToPointA	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0731	1	F
R2-1818877	Correction on PCCH-Config	vivo	Rel-15	38.331	NR_newRAT-Core	0539	1	F
R2-1818878	Minor clarifications for paging	Ericsson	Rel-15	38.304	NR_newRAT-Core	0090	1	F
R2-1818879	Clarification of primary and secondary RLC entity option 2	Huawei, HiSilicon	Rel-15	36.331	LTE_HRLLC-Core	3752	2	F
R2-1818880	Clarification of UE behaviour when frequencyBandList is absent in SIB4	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0577	1	F
R2-1818881	Introduction of MICO mode	Ericsson, Fujitsu	Rel-15	38.304	NR_newRAT-Core	0088	2	F
R2-1818883	Corrections on storing and discarding UE AS context	OPPO	Rel-15	38.304	NR_newRAT-Core	0079	2	F
R2-1818885	CR to 36.331 on addition of CGI reporting timer T321 for NR	Ericsson	Rel-15	36.331	NR_newRAT-Core	3764	1	F
R2-1818886	Clarification on physical layer parameters of UE capability	Huawei, HiSilicon	Rel-15	38.306	NR_newRAT-Core	0047	2	F
R2-1818887	Additional UE capabilities for NR standalone	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0291	3	F
R2-1818888	Update on L2 capabilities	Ericsson	Rel-15	38.331	NR_newRAT-Core	0355	2	F
R2-1818892	Update on L2 capabilities	Ericsson	Rel-15	38.306	NR_newRAT-Core	0038	2	F
R2-1818895	UE capability handling for FDD/TDD and FR1/FR2	Samsung	Rel-15	38.306	NR_newRAT-Core	0054	1	F
R2-1818896	Clarification to TS 36.331 on MIMO capabilities in EN-DC	Nokia, Nokia Shanghai Bell	Rel-15	36.331	NR_newRAT-Core	3740	1	F
R2-1818898	CR on signaling contiguous EN-DC capability	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0689	1	F
R2-1818899	CR on signaling contiguous EN-DC capability	Intel Corporation	Rel-15	38.306	NR_newRAT-Core	0062	1	F
R2-1818903	Correction on default configuration	Samsung	Rel-15	38.331	NR_newRAT-Core	0768	1	F

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		Electronics						
R2-1818904	CR to 38.331 on HO support in Setup Procedure	Ericsson	Rel-15	38.331	NR_newRAT-Core	0778	1	F
R2-1818905	Initial CORESET	Rapporteur (Nokia)	Rel-15	38.300	NR_newRAT	0111	1	F
R2-1818906	Correction on DC subcarrier usage in SetupComplete message	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0687	1	F
R2-1818907	Correction on indication for user plane resource release	LG Electronics, MediaTek Inc., Ericsson, Intel Corporation, Nokia, Nokia Shanghai Bell, OPPO	Rel-15	38.331	NR_newRAT-Core	0750	1	F
R2-1818908	CR on SDAP reconfiguration handling	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0509	2	F
R2-1818909	Missing procedure text in RRC Reconfiguration	Ericsson, MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0697	2	F
R2-1818911	Clarification on MIB Acquisition	Samsung	Rel-15	38.331	NR_newRAT-Core	0787		F
R2-1818912	Correction to reconfiguration with sync	Google Inc.	Rel-15	38.331	NR_newRAT-Core	0545	1	F
R2-1818914	CR to the field descriptions of System Information	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0567	1	F
R2-1818915	Handling of missing fields in SIB1	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0578	2	F
R2-1818916	PDCCH Monitoring Occasions in SI Window	Samsung Electronics Co., Ltd	Rel-15	38.331	NR_newRAT-Core	0436	3	F
R2-1818917	CR on UE behaviour after SI acquisition failure	vivo, ZTE	Rel-15	38.331	NR_newRAT-Core	0516	1	F
R2-1818918	Handling Cell Reselection during SI Request	Samsung Electronics Co., Ltd, ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0202	2	F
R2-1818919	Correction to SI message acquisition timing	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0680	1	F
R2-1818921	CR on MeasurementTimingConfiguration	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0492	3	F
R2-1818923	Correction on the terminology scg-ChangeFailure	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0767	1	F
R2-1818924	Correction on the terminology scg-ChangeFailure	Samsung Electronics	Rel-15	36.331	NR_newRAT-Core	3807		F
R2-1818928	Correction on sorting for reporting of NR cell measurements	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3638	3	F
R2-1818929	Frequency band indication in MeasObjectNR	MediaTek Inc.	Rel-15	36.331	NR_newRAT-Core	3728	1	F
R2-1818930	Correction to description of parameter CarrierFreq	Samsung	Rel-15	36.331	NR_newRAT-Core	3787	1	F
R2-1818932	[103bis#20] CR to 38331 on release after completion of inter-RAT HO	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0788		F
R2-1818933	[103bis#20] CR to 36331 on release after completion of inter-RAT HO	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3808		F
R2-1818934	Full configuration for inter-RAT handover	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0582	1	F
R2-1818935	Corrections for handover preparation in 36.331	Huawei, HiSilicon	Rel-15	36.331	LTE_5GCN_connect-Core	3747	2	F
R2-1818938	Clarification on the candidateCellInfoListNR in RRM-Config	Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3811		F
R2-1818939	SCell release at RRC Reestablishment	Ericsson	Rel-15	38.331	NR_newRAT-Core	0664	1	F
R2-1818940	Correction on the size of PUCCH resource ID	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0670	1	F
R2-1818941	CR on PUCCH-ConfigCommon	vivo	Rel-15	38.331	NR_newRAT-Core	0518	1	F
R2-1818942	CR to 38.331 on rbg-Size in PDSCH-Config, PUSCH-Config and ConfiguredGrantConfig	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0789		F
R2-1818945	CR on pdsch-TimeDomainAllocationList and pusch-TimeDomainAllocationList	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0654	1	F
R2-1818946	Clarification for the implementation of UE feature list item 6-1 (BWP op1)	Intel Corporation, NTT DoCoMo Inc	Rel-15	38.331	NR_newRAT-Core	0414	2	F
R2-1818954	CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation	ZTE Corporation, Sanechips	Rel-15	36.331	TEI15, LTE_5GCN_connect-Core	3673	3	F
R2-1818955	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	Rel-15	36.321	LTE_VoLTE_ViLTE_enh	1400	1	F
R2-1818956	Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2	Intel Corporation	Rel-15	36.306	LTE_1RX_CRS_IM	1669	3	F

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R2-1818957	Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2	Intel Corporation	Rel-15	36.331	LTE_1RX_CRS_IM	3800	2	F
R2-1818958	Support for Logging of 'Any cell selection' state	LG Electronics, SK Telecom, KT Corp., Nokia, Nokia Shanghai Bell	Rel-15	36.331	TEI15	3803	2	B
R2-1818959	SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information	Ericsson, ESA	Rel-15	36.331	TEI15	3596	3	F
R2-1818965	Clarification on supportedMIMO-CapabilityDL-r15	Nokia, Nokia Shanghai Bell	Rel-15	36.331	NR_newRAT-Core	3809		F
R2-1818967	TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corporation	Rel-15	36.331	LTE_5GCN_connect-Core	3589	3	F
R2-1818968	TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corporation	Rel-15	36.306	LTE_5GCN_connect-Core	1660	3	F
R2-1818971	CR for pendingRnaUpdate set	Spreadtrum Communications	Rel-15	38.331	NR_newRAT-Core	0638	1	F
R2-1818974	Clarifications on receiving RRCReject without wait timer	vivo	Rel-15	38.331	NR_newRAT-Core	0520	1	F
R2-1818975	CR on handling of timer T380	ITRI	Rel-15	38.331	NR_newRAT-Core	0721	1	F
R2-1818977	Clarification on the protection of RRCResumeRequest1	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0714	1	F
R2-1818978	Clarification of cell reselection during resume procedure	Ericsson	Rel-15	38.331	NR_newRAT-Core	0616	1	F
R2-1818979	CR on wait timer in RRC release	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0660	1	F
R2-1818980	Corrections to eCA configurations	Nokia, Nokia Shanghai Bell	Rel-13	36.331	LTE_CA_enh_b5C-Core	3561	2	F
R2-1818981	Corrections to eCA configurations	Nokia, Nokia Shanghai Bell	Rel-14	36.331	LTE_CA_enh_b5C-Core	3562	2	A
R2-1818982	Corrections to eCA configurations	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_CA_enh_b5C-Core	3563	3	A
R2-1818983	Clarification to UE capabilities for CA	Nokia, Nokia Shanghai Bell	Rel-15	36.331	LTE_CA_enh_b5C-Core	3566	3	F
R2-1818984	CR to 36.331 on alignment of use of fullI-RNTI and i-RNTI in paging and InactiveConfig (alt 2)	Ericsson	Rel-15	36.331	NR_newRAT-Core	3810		F
R2-1818985	CR to 38.331 on aligning i-RNTI terminology in paging and SuspendConfig (Alt 2)	Ericsson	Rel-15	38.331	NR_newRAT-Core	0624	1	F
R2-1818987	Alternative signalling option for SupportedBandListNR	Nokia, Nokia Shanghai Bell	Rel-15	36.306	NR_newRAT-Core	1665	2	F
R2-1818988	Clarification for the UE behaviour in camped normally and camped on any cell states	Samsung, Intel Corporation, Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0510	1	F
R2-1818995	Correction to description of parameter nAndPagingFrameOffset	Samsung Electronics Co., Ltd	Rel-15	38.331	NR_newRAT-Core	0514	2	F
R2-1818998	Correction to UE behavior for barred cell	Samsung Electronics	Rel-15	38.304	NR_newRAT-Core	0084	2	F
R2-1819000	Determination of Access Identities for AS-triggered Events	Ericsson	Rel-15	38.331	NR_newRAT-Core	0617	1	F
R2-1819002	CR to 38.331 on stopping T390 and UE related actions	Ericsson	Rel-15	38.331	NR_newRAT-Core	0259	3	F
R2-1819003	Barring alleviation for emergency service	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0572	1	F
R2-1819005	Stopping T390 upon reception of RRC Release	Ericsson	Rel-15	38.331	NR_newRAT-Core	0618	1	F
R2-1819006	Correction on the behaviors with cell reselection while T302 is running	CATT	Rel-15	38.331	NR_newRAT-Core	0506	1	F
R2-1819008	Access barring check after handover	Ericsson	Rel-15	38.331	NR_newRAT-Core	0254	2	F
R2-1819009	Access barring check after handover for eLTE	Ericsson	Rel-15	36.331	LTE_5GCN_connect-Core	3593	2	F
R2-1819013	CR on the Clarification for the support of the delay budget report in NR	Samsung Electronics	Rel-15	38.331	NR_newRAT-Core	0307	3	F
R2-1819019	Clean up of SRB1 terminology	Ericsson	Rel-15	38.331	NR_newRAT-Core	0665	1	F
R2-1819020	RIL G301: SRB3 integrity protection failure handling	Ericsson	Rel-15	38.331	NR_newRAT-Core	0429	2	F
R2-1819021	Correction concerning IDC reporting	Samsung Telecommunications	Rel-15	36.331	NR_newRAT-Core	3775	1	F
R2-1819026	CR on 38.304 for correction of PLMN selection in RRC_INACTIVE	LG Electronics France	Rel-15	38.304	NR_newRAT-Core	0102	1	F
R2-1819028	CR for the optional configuration of	ZTE Corporation,	Rel-15	38.331	NR_newRAT-Core	0560	1	F

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	subbandSize	Sanechips						
R2-1819029	CR for ServingCellConfigCommon in 38.331	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0232	2	F
R2-1819030	Addition of selected BC in AS-Context for EN-DC	NTT DOCOMO INC., Huawei, HiSilicon	Rel-15	36.331	NR_newRAT-Core	3805	2	F
R2-1819033	CR on the SSB based RACH configuration	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0655	1	F
R2-1819034	Corrections on number of RadioLinkMonitoringRS condifuration	OPPO	Rel-15	38.331	NR_newRAT-Core	0587	1	F
R2-1819035	CORESET#0 configuration when SIB1 is not broadcast	ZTE Corporation, Sanechips	Rel-15	38.331	NR_newRAT-Core	0503	4	F
R2-1819037	Clarification for the UE behaviour in camped normally and camped on any cell states	Qualcomm Incorporated (Rapporteur), Samsung, Intel Corporation	Rel-15	38.304	NR_newRAT-Core	0076	1	F
R2-1819041	Correction on DL SPS configuration	OPPO	Rel-15	38.321	NR_newRAT-Core	0594	1	F
R2-1819045	CR on the ambiguity of targetCellIdentity in Resume/Reestablishment MAC-I calculation	ZTE, Sanechips	Rel-15	38.331	NR_newRAT-Core	0454	3	F
R2-1819053	Enabling to configure TCI-state for CORESET#0 by MAC CE	NTT DOCOMO, INC	Rel-15	38.321	NR_newRAT-Core	0595		F
R2-1819055	Inter-frequency handover capability	Qualcomm Incorporated	Rel-15	38.331	NR_newRAT-Core	0643	1	F
R2-1819056	Inter-frequency handover capability	Qualcomm Incorporated	Rel-15	38.306	NR_newRAT-Core	0058	1	F
R2-1819057	[103bis#13] Normative Annex of CRs Containing Early Implementable Features and Corrections	NTT DOCOMO INC., BlackBerry UK Ltd	Rel-15	36.331	TEI15	3681	2	F
R2-1819058	CR to 38.331 on including serving cell measurements	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0709	1	F
R2-1819060	Addition of PCI in MeasTiming	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0594	1	F
R2-1819061	Corrections for security configurations during setup of SRB1	Ericsson	Rel-15	38.331	NR_newRAT-Core	0575	1	F
R2-1819063	SIBs that trigger SI request procedure	Nokia, Nokia Shanghai Bell	Rel-15	38.331	NR_newRAT-Core	0600	2	F
R2-1819066	Corrections on RRC transfer procedure in EN-DC	Ericsson, ZTE Corporation, Sanechips	Rel-15	37.340	NR_newRAT-Core	0084	2	F
R2-1819067	RIL I556, I557, I558 on RB handling when resuming	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0239	5	F
R2-1819068	Miscellaneous minor corrections	Ericsson	Rel-15	38.331	NR_newRAT-Core	0409	4	F
R2-1819069	Integrity Check failure at RRC Re-establishment	Ericsson	Rel-15	38.331	NR_newRAT-Core	0673	2	F
R2-1819073	Clarification to TS 36.306 on supportedMIMO-CapabilityDL-r15	Nokia, Nokia Shanghai Bell	Rel-16	36.306	NR_newRAT-Core	1663	2	F
R2-1819074	Alternative signalling option for SupportedBandListNR	Nokia, Nokia Shanghai Bell	Rel-15	36.331	NR_newRAT-Core	3741	3	F
R2-1819077	CR on SRS antenna switching capability	Huawei, HiSilicon	Rel-15	38.306	NR_newRAT-Core	0071		F
R2-1819078	CR to 38.306 for PDCP CA duplication for SRB	ZTE Corporation, Sanechips	Rel-15	38.306	NR_newRAT-Core	0052	2	F
R2-1819079	Clarification of multipleConfiguredGrants	MediaTek Inc.	Rel-15	38.306	NR_newRAT-Core	0051	2	F
R2-1819085	Correction to configuration of firstPDCCH-MonitoringOccasionOfPO	Samsung Electronics Co., Ltd	Rel-15	38.331	NR_newRAT-Core	0524	2	F
R2-1819086	Per serving cell MIMO layer configuration	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0543	2	F
R2-1819087	Corrections on BWP ID	Spreadtrum Communications	Rel-15	38.331	NR_newRAT-Core	0640	2	F
R2-1819089	Introduce RRC buffer size in NR	MediaTek Inc.	Rel-15	38.306	NR_newRAT-Core	0050	2	F
R2-1819090	UE capability on PA architecture	Apple Inc.	Rel-15	38.331	NR_newRAT-Core	0649	2	F
R2-1819092	CRs on clarification of field descriptions for NR frequencies	Intel Corporation	Rel-15	38.331	NR_newRAT-Core	0688	3	F
R2-1819093	CRs on clarification of field descriptions for NR frequencies	Intel Corporation	Rel-15	36.331	NR_newRAT-Core	3778	3	F
R2-1819095	CR to 38.331 on clarification of IRAT Cell Selection in RRC_INACTIVE	Ericsson	Rel-15	38.331	NR_newRAT-Core	0627	2	F
R2-1819100	UE capability on PA architecture	Apple Inc.	Rel-15	38.306	NR_newRAT-Core	0060	3	F
R2-1819103	CR to 38.331 on UE AS Context -	Ericsson	Rel-15	38.331	NR_newRAT-Core	0773	2	F

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	Alternative 2a - Include SuspendConfig							
R2-1819104	NR RRC Processing Time	MediaTek Inc.	Rel-15	38.331	NR_newRAT-Core	0294	3	F
R2-1819105	CR on SRS anttena switch	Huawei, HiSilicon	Rel-15	38.331	NR_newRAT-Core	0730	2	F

541 agreed CRs.

Endorsed CRs:

TDoc	Title	Source	Rel	Spec	Related WIs	CR	Rev	Ca
R2-1818598	CR to mandate FGI 103 and 104	Huawei, HiSilicon	Rel-15	36.331	LTE-L23, TEI15	3785	1	F

Annex F: Email Approvals

One week discussions: Deadline Monday, 2018-11-26, 23:59 Pacific Time (unless stated)

Please request TDoc numbers for the following email discussions from MCC if not already allocated below

[104#01][NR] UE capability retrieval in MR-DC stage 2 (Nokia)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819187 (37.340 CR0082r3)

[104#02][NR] TCI state in CommonControlResourceSet (Huawei)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819120 (38.331 CR0558r1)

[104#03][NR] Inter-band EN-DC Configured Output Power (Ericsson)
To align CR with RAN4 decisions
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819190 (38.331 CR0395r3)

[104#04][NR] SRS Config (Huawei)
Changes from R2-1816649 to be merged into a revision of R2-1818558
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819121 (38.331 CR0388r3)

[104#05][NR] EN-DC configurations upon re-establishment and SGC failure (Qualcomm)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1818856 (36.331 CR3749r1)

[104#06][NR] Signalling only connection (Huawei)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1818961 (38.331 CR0723r2)

[104#07][NR] Stopping T302 and related actions (Xiaomi)

- To check CR in relation to NAS specification
  Intended outcome: Agreed CR
  Deadline: Monday 2018-11-26

=> Agreed in R2-1819118 (38.331 CR0746r2)

[104#08][NR] Overheating (Huawei)
Intended outcome: Agreed CRs to 38.331 and 38.306
Deadline: Monday 2018-11-26
=> Agreed in:
R2-1819179 (38.331 CR0729r3)
R2-1819180 (38.306 CR0068r2)

[104#09][NR] MN/SN coordination for report CGI (Nokia)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819096 (38.331 CR0620r2)

[104#10][NR] Power headroom configuration exchange (Huawei)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819122 (38.331 CR0647r2)

[104#11][NR] CSI-RS capabilities (DCM/Intel)
Conclude the default parameters and the signalling details for CSI-RS capabilities. RAN1 colleagues must participate in this discussion.
Intended outcome: Agreed CRs to 38.331 and 38.306 (priority is 38.331)
Deadline: Wednesday 2018-11-28
=> Company contributions to RAN#82

[104#12][NR] New configuration parameters based on RAN1 LS (Qualcomm)
Prepare CR to address the RAN1 LS R2-1819108/R1-1814349.
Intended outcome: Agreed CR to 38.331
Deadline: Monday 2018-11-26
=> Agreed in R2-1818618 (38.331 CR0790)

[104#13][NR] UE capability procedures in 38.331 and 36.331 (Ericsson)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in:
R2-1819194 (38.331 CR0700r2)
R2-1819195 (36.331 CR3779r2)

[104#14][NR] SRS carrier switching capability (Huawei)
Intended outcome: Agreed CRs to 38.331 and 38.306
Deadline: Monday 2018-11-26
=> Agreed in:
R2-1818962 (38.331 CR0725r2)
R2-1818963 (38.306 CR0065r2)

[104#15][NR] Per CC UL/DL modulation order capabilities (Spreadtrum)
Intended outcome: Agreed CR to 38.306
Deadline: Monday 2018-11-26
=> Agreed in R2-1819022 (38.306 CR#0057r1)
=> The email discussion summary in R2-1818808 is noted.

[104#16][NR] MR-DC stage (ZTE)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26

=> Agreed in R2-1819036 (37.340 CR0073r4)

[104#17][LTE/HRLLC] CR on DC duplication (Ericsson)
Intended outcome: Agreed CR to 36.331
Deadline: Monday 2018-11-26
=> Agreed in R2-1819127 (36.331 CR3813)

[104#18][LTE/5GC] CR on MME and AMF overload control (Ericsson)
This email discussion will also conclude whether an agreed CR (on delay tolerant) will remain agreed or not.
Note the CR under discussion in an NBC CR.
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819188 (36.331 CR3745r2)

[104#19][NR] Q-RxLevMin and Q-QualMin value range and P-Max value range (Ericsson)
Update the CRs based on any RAN4 agreements (if no agreements in RAN4 then this email discussion is not needed)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1818701 (38.331 CR0604r2)

[104#20][NR] PDCP suspend in LTE RRC (LG)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1818806 (36.331 CR3794r1)

[104#21][NR] PHR timing (Nokia)
Intended outcome: Agreed CR and approved LS to RAN1
Deadline: Monday 2018-11-26
=> Agreed in R2-1818803 (38.321 CR0354r6)
=> LSout Approved in R2-1818807

[104#22][LTE/5GC] Stage 2 Corrections on handover for E-UTRA connected to 5GC (Huawei)
- Based on R2-1818076
- Check on the handover cases related to 5GC
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1818619 (36.300 CR1182r6)

[104#23][LTE/5GC] Capture the agreements from NR (Intel)
Capture the agreements from NR which are applicable for eLTE
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1819193 (36.304 CR0744r5)

[104#24][NR UP] Clarification on BWP ID in MAC CE (Spreadtrum)
Intended outcome: Agreed CR, if MAC CR is determined to be needed. Take into account progress in CP session
Deadline: Monday 2018-11-26
=> Agreed in R2-1818805 (38.321 CR0547r3)

[104#25][NR UP] Correction to SR Triggering (Samsung)
Intended outcome: Agreed CR. Conclude the discussion using the almost agreeable CR in R2-1819038 as a starting point.
Deadline: Monday 2018-11-26
=> Agreed in R2-1819119 (38.321 CR0564r2)

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[104#26][IAB] TR 38.874 (Qualcomm)
Intended outcome: Agreed TR. Inclusion of all agreed TPs. Email discussion for checking details such as editorials. Joint R1 R2 R3 Email discussion
Deadline: Monday 2018-11-26
=> Agreed in R2-1819125 (TR 38.874 v0.7.0).

[104#27][NB-IoT/eMTC R16] RAN2 agreements (BlackBerry)
Update the RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC (Blackberry)
Intended outcome: Endorsed document in R2-1818633
Deadline: Monday 2018-11-26
=> Endorsed in R2-1818633.

[104#28][LTE - eCA] CR on n1PUCCH-AN-CS-ListP1-r13 (Nokia)
Intended outcome: agree to CR on n1PUCCH-AN-CS-ListP1-r13 asn1 error correction
Deadline: Monday 2018-11-26
=> Agreed in:
36.331 CRs: R2-1819182, R2-1819183, and R2-1818606
36.306 CRs: R2-1819184, R2-1819185, and R2-1819186

[104#29][eMTC R15] PRACH resource pool for EDT (Intel)
To agree R2-1818670 (Intel)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1818672 (36.331 CR3769r3)

[104#62][NB-IoT R14] CR on Discard the AS context and ResumeId (Huawei)
At agree CRs on "Discard the AS context and ResumeId when initiating the establishment of a RRC " (R2-1818624/5)
Intended outcome: Agreed CRs
Deadline: Monday 2018-11-26
=> Agreed in:
36.331 CRs: R2-1818637 (36.331 CR#3686r3)
36.306 CRs: R2-1818638 (36.331 CR#3687r2)

[104#63][NB-IoT/eMTC R15] CR on UL EDT not successful (Huawei)
At agree CR on "Clarification on when UL data transmission in EDT is not considered successful" (R2-1818661)
Intended outcome: Agreed CR
Deadline: Monday 2018-11-26
=> Agreed in R2-1818671 (36.300 CR1201r2)

[104#68][NR] Reply LS to CT1 on UE behaviour in RRC_INACTIVE while going out-of-service (Samsung)
Response to the LS received from CT1 in R2-1816203. The response is to inform them that we reconsidered our previous agreement as requested, inform them of our new agreement, and attach our agreed CRs.
Intended outcome: Approved LS
Deadline: Thursday 2018-11-22
=> Approved in R2-1818802..

Next meeting disussions: Deadline Thursday, 2019-02-07, 23:59 Pacific Time (unless stated)

TDoc numbers for the following email discussions may be requested via 3GU tool

[104#30][NR] De-activation of security for DRBs (Intel)

Establish the requirements to deactivate security and determine the impacts to RRC and PDCP specs so that a decision can be made at the next meeting on whether to support this in R15.
Intended outcome: Report to next meeting
Deadline: Thursday 2019-02-07

[104#31][NR] Reconfig with sync terminology (Ericsson)

Review the handover and reconfig with sync terminology to identify if any ambiguity or problem is caused by the mix of terminology and prepare a CR to address it.
Intended outcome: CR submitted to next meeting
Deadline: Thursday 2019-02-07

[104#32][NR] Filtering in NR UE capability enquiry (Qualcomm)

To progress the filtering of the E-UTRA capabilities in the NR UE capability enquiry
Intended outcome: Agreeable CR to next meeting
Deadline: Thursday 2019-02-07

[104#33][NR/Late drop] INMs (Ericsson)

Progress the detail of the parameters that would need to be added to the INMs in NR RRC to support MR-DC.
Intended outcome: Report and draft CR to next meeting
Deadline: Thursday 2019-02-07

[104#34][NR/UE Cap SI] UE cap ID signalling options (MediaTek)

Review the email discussion 103bis#12 considering any new SA2 agreements and update the conclusions from that email discussion if necessary.
Intended outcome: Report to next meeting
Deadline: Thursday 2019-02-07

[104#35][NR] Positioning SI (Intel)

- Start the discussion after RANP
  Location server functions in RAN: discuss the potential RAN impacts and procedures (e.g. protocol, interface between RAN/CN, etc); May do comparison
- Procedures on RAN obtaining UE location: comparison on potential solutions, e.g. MDT like method, location server function in RAN, RAN as LCS client; try to conclude whether all solutions are needed
- Note: Take into account the output of SA2#129bis, and SA plenary meeting in our discussion;
- Outcome of the email discussion:
- Summary on concrete solutions for identified RAN impacts for location server functions in RAN and potential majority view;
- Summary on concrete solutions for RAN obtaining UE location, and company's view;
- Potential TP to capture solution details on potential enhancements of architecture;

  Deadline: Thursday 2019-02-07

[104#36][NR/IIOT] TSN Traffic Patterns (Nokia)

Intended outcome: Based on R2-1817270, identify the issues and solution directions including a TP if possible
Deadline: Thursday 2019-02-07

[104#37][NR/IIOT] Ethernet Header Compression (Ericsson)

Intended outcome: TP for next meeting, including some expected performance numbers, identify the fields that can be compressed/removed?, which frame structures that will be addressed, the method how to specify in a WI phase (e.g. ROHC addition or other).
Deadline: Thursday 2019-02-07

[104#38][NR/IIOT] Intra UE prioritization UL Data Data (Interdigital)

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Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)
Deadline: Thursday 2019-02-07

[104#39][NR/IIOT] Intra UE prioritization UL Control Data (Huawei)
Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)
Deadline: Thursday 2019-02-07

[104#40][NR/IIOT] PDCP Duplication Enhancement (Ericsson)
Intended outcome: Report, Identify issues, identify solutions (try to avoid stage-3 details to the extent possible)
Deadline: Thursday 2019-02-07

[104#41][NB-IoT R13] If and how to correct the signalling of ack-NACK-NumRepetitions (Qualcomm)
Intended outcome: email discussion report, and if necessary CRs for agreement in the next meeting.
Deadline: Thursday 2019-02-07

[104#42][NB-IoT R16] Analyse the benefit and feasibility of service based group WUS solutions (Nokia)
Companies can provide solutions, with benefit analysis (e.g. based on reference traffic model) and feasibility.
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

[104#43][NB-IoT R16] To progress on D-PUR (Sierra Wireless)
Primary scope is to progress the FFS captured for D-PUR
Secondary scope, to progress further details on solutions addressing the agreements
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

[104#44][NB-IoT R16] SON/ANR report for NB-IoT (Huawei)
How and when the measurements, configuration, reporting are done.
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

[104#45][NB-IoT R16] RACH Report (Qualcomm)
How and what to report.
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

[104#46][NB-IoT R16] RLF Report (Ericsson)
Purpose and content of RLF report.
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

[104#47][NB-IoT R16] Inter-RAT cell selection (Mediatek)
Whether priority and/or suitability criteria can be broadcast.
How the assistance information is signalled.
Intended outcome: email discussion report
Deadline: Thursday 2019-02-07

[104#48][eMTC R13] Paging configurations and fractional nB value (Sequans)
- whether/how the formula works when nB is a fractional value
- how the distribution for the POs is affected
- how it can be assured that RAN1 principle “a UE not being configured with overlapping CSSs” is observed.

Intended outcome: Email discussion report to the next meeting

Deadline: Thursday 2019-02-07

[104#49][eMTC & NB-IoT R16] MT MDT (Huawei)
To evaluate the solution options based on the agreed criteria (Huawei)
Intended outcome: Email discussion report to next meeting
Deadline: Thursday 2019-02-07

[104#50][eMTC R16] Quality report in Msg3 (Huawei)
To progress the discussion on (Huawei)
- which narrowband(s) to measure and report
- how to provide the report, i.e. MAC or RRC
Intended outcome: Email discussion report to next meeting
Deadline: Thursday 2019-02-07

[104#51][NR – NTN] - Impacts on user plane timers (Nomor)
- Identify timers impacted by RTD and how to handle them
- Outcome: TP capturing the timers
Deadline: Thursday 2019-02-07

[104#52][NR- NTN] TP on RAN2 agreements (Thales)
Intended outcome: TP capturing agreements from RAN2#104
Deadline: Thursday 2019-02-07

[104#53][NR – NTN] Performance requirements for NTN (Thales)
- Identify performance requirements (data rates, delay jitter)
- Identify use cases (e.g. eMBB, URLLC, MTC)
- User density per NR cell

2 stage email discussion
- First stage is to identify all metrics needed for WGs to carry out analysis
- Second stage to converge on the numbers
Intended outcome: Report to next meeting
Deadline: Thursday 2019-02-07

[104#54][NR - NTN] Mobility (Ericsson)
- Stage 1: Identify key issues to address for mobility
- Stage 2: Capture solutions identified in contributions for each of the issues
Intended outcome: Report to next meeting
Deadline: Thursday 2019-02-07

[104#55][NR/V2X] Unicast (OPPO)
Discuss definition, procedure, signaling flows and information to provide clear whole picture on how each option works for unicast and make a TP for the proposal. (OPPO)
- Option 1: AS layer connection establishment procedure by PC5-RRC is also needed.
- Option 2: Upper layer connection establishment procedure is enough.
Deadline: Thursday 2019-02-07

[104#56][NR/V2X] Level link management for unicast (Apple)
Discuss possible detailed options on AS level link management for unicast and make a TP for the proposal. (Apple)
Deadline: Thursday 2019-02-07

[104#57][NR/V2X] Interface selection (Ericsson)
Discuss the following interface selection aspects and make a TP for the proposal: (Ericsson)
- What does Uu/PC5 availability implies
- How AS decide availability of Uu/PC and whether we need to specify it
Deadline: Thursday 2019-02-07

[104#58][NR/V2X] QoS (Huawei)

Discuss QoS design for NR SL broadcast, groupcast and unicast (including per packet QoS or per flow QoS, stage-2 level associated procedures/signalling flows and required information, etc.) and make a TP for the proposal. SA2 progress needs to be also considered. Note other options are not excluded. (Huawei)
- Option 1: QoS as defined in LTE V2X SL
- Option 2: QoS as defined for NR Uu

Deadline: Thursday 2019-02-07

[104#59][NR/V2X] Resource allocation (LG)

Discuss RAN2 impacts and stage-2 level required mechanism/enhancements and make a TP for the proposal. RAN1 progress/agreement need to be also considered. (LG)
- Resource allocation for mode 1
- Common to resource allocation for all sub-mode 2s
- Specific to resource allocation to a sub mode 2
- Resource allocation when both mode 1 and mode 2 are configured/active.

Deadline: Thursday 2019-02-07

[104#60][NR/V2X] Groupcast (Qualcomm)

Discuss on groupcast (including whether group leader should be visible, need of any stage-2 level required mechanism/enhancements that different to ones for unicast/broadcast, and etc.) and make a TP for the proposal. Note the issues, which to be addressed by email discussion #701 and #702, for groupcast will be also handled here. (Qualcomm)
- Case 1: Platooning (leader-driven)
- Case 2: Other use-cases w/o leader

Deadline: Thursday 2019-02-07

[104#61][LTE/feMOB] Solution directions for minimizing user data interruption for UL/DL (Nokia)

Discuss the details of potential solution directions for split and non-split bearers and compare the solutions. Proponents should indicate the assumptions on UE (e.g. RF requirements). Consider at least the evaluation metrics agreed last time, RLM, data forwarding, user data interruption, RF requirements (e.g. 2Rx/2Tx).
Two-stage discussion: First stage (2 weeks) to identify structure of discussion document, second stage to define and compares the solutions directions.
Intended outcome: Email discussion summary with candidate solutions.
Deadline: Thursday 2019-02-07

[104#64][NR] Running 38331 CR for Late drop (Ericsson)

To progress running CR with further Late drop details on e.g. bearer handling, measurements, SCG failure, SCG resource release, INM, UE capabilities etc.
Identify and try to progress any smaller issues raised.
Rapporteur provides baseline document based on Dec 2018 version, RAN2#104 agreements and selected Tdocs submitted to RAN2#104.
Kick-off: Monday 2019-01-07
Outcome: Agreeable CR
Deadline: Thursday 2018-02-07

[104#65][NR] Running 36331 CR for Late drop (Samsung)

To progress running CR with further Late drop details on e.g. bearer handling, measurements, SCG failure, SCG resource release, INM, UE capabilities etc.
Identify and try to progress any smaller issues raised.
Rapporteur provides baseline document based on Dec 2018 version, RAN2#104 agreements and selected Tdocs submitted to RAN2#104.
Kick-off: Monday 2019-01-07
Outcome: Agreeable CR
Deadline: Thursday 2018-02-07

[104#66][NR] UE NR and E-UTRA capabilities for Late drop (Ericsson)

To progress and agree on principles (reuse on existing capabilities, request filtering, etc)

Intended outcome: Report and agreeable draft CRs to 36.306, 38.306, 36.331, 8.331 (to be included in Running CRs at next meeting)).
Deadline: Thursday 2019-02-07

[104#67][NR] Remaining QoS issues for MR-DC (Vivo)
Handling of offloaded (e.g. from MN to SN) QoS flows and whether and how to support lossless handover if any.
Intended outcome: Report and agreeable draft CRs to 38.300, 37.340, 38.331, 36.331 (to be included in Running CRs at next meeting)
Deadline: Thursday 2019-02-07

Annex G: History

Document history		
Date	**TSG RAN WG2 Tdoc**	**Subject**
24.11.2018	-	Draft report v1
23.02.2019		Draft report v2
24.02.1029	R2-1900002	Version submitted to RAN2#105 for approval

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APPENDIX F

TDoc	Title	Source	TDoc Status	Reservation date	Uploaded
R2-1816200	Agenda for RAN2#104	Chai	approved	2018-10-29 15:05:09	2018-11-01 01:25:15
R2-1816201	RAN2#103bis Meeting Report	MCC	approved	2018-10-29 15:05:09	2018-11-12 13:43:13
R2-1816202	LS on RRC establishment cause in RRC reestablishment fallback case (C1-186600; contact:	CT1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816203	Reply LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service (C1-186851; contact: Samsung)	CT1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816204	Reply LS on LS on the Impacts of increasing the MAC-I and NAS-MAC size (C1-186961; contact: Huawei)	CT1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816205	Reply LS on establishment causes (C1-186967; contact: Ericsson)	CT1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816206	LS on successful completion of early data transmission when eNodeB decided not to have RRC connection (C1-186968; contact: Ericsson)	CT1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816207	Reply LS on inclusion of selected PLMN into the complete message C1-186994; contact: Samsung)	CT1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816208	LS on Restriction of 1024QAM CSI reporting (R1-1809609; contact: Nokia)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816209	LS on HRLLC (R1-1809691; contact: Ericsson)	RAN	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816210	Reply LS on power class for FR1 EN-DC and NR CA (R1-1811935; contact: Samsung)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816211	LS on aperiodicTriggeringOffset (R1-1811936; contact: Ericsson)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816212	LS on description of QCL (R1-1811937; contact: ZTE	RAN	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816213	LS on field description for SearchSpace (R1-1811969; contact: NTT DOCOMO)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816214	LS on wideband carrier operation for NR-U (R1-1812026; contact: Ericsson)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816215	Reply LS on intra-band combination for NR CA and MR-DC (R1-1812028; contact:Intel)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816216	LS on RAN1 NR UE features update (R1-1812037; contact: NTT DOCOMO and AT&T)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816217	LS on Uu control of NR sidelink (R1-1812057; contact: Huawei)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816218	Multiple active configured UL grants for NR V2X (R1-1812058; contact: Ericsson)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816219	Reply LS on PHR and SUL (R1-1812062; contact:	RAN	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816220	Reply LS on L1 capabilities (R1-1812065; contact:	RAN	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816221	LS on clarification to Max Data Rate in TS38.306 (R1-1812072; contact: Ericsson)	RAN1	noted	2018-10-29 15:05:09	2018-10-29 15:08:35
R2-1816222	LS on network synchronization for handover purposes (R1-1812074; contact: Ericsson)	RAN1	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816223	LS on search space configuration for DCI format 2_0 monitoring (R1-1812075; contact: Qualcomm)	RAN1	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816224	Reply LS on inclusion of selected PLMN into the complete message (R3-186231; contact: Qualcomm)	RAN3	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816225	Reply LS to SA5 on L2 measurementst (R3-186232; contact: Huawei)	RAN3	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816226	Reply LS on asymmetric mapping for UL and DL QoS flows (R3-186248; contact: LGE)	RAN3	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816227	LS on measurement of different SSBs with different PCIs within the same NCGI (R3-186262; contact:	RAN3	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816228	LS to RAN2 on measurement gap applicability (R4-1813693; contact: CMCC)	RAN4	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816229	Reply LS on intra-band combination for NR CA and MR-DC (R4- 1813862; contact: T-Mobile)	RAN4	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816230	Reply LS on power class and P-Max for FR1+FR2 EN-DC and NR CA (R4-1814148; contact: Oppo)	RAN4	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816231	Reply LS on Return from UTRAN to NG-RAN for SRVCC from 5GS to UTRAN (S2-1810800; contact:	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35

R2-1816232	Reply LS on requesting study of system level aspects of NR-U (S2-1811023; contact: Nokia)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816233	Reply to LS on Slice based Wait timer in NR RRC release (S2-1811520; contact: Ericsson)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816234	Reply LS on the need of paging reception for the call-back when a UE is in limited service state (S2-1811544; contact: Intel)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816235	LS on redundant transmission for URLLC (S2-1811555; contact: Huawei)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816236	LS on supporting low latency and low jitter during handover procedure S2-1811556; contact: Oppo)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816237	LS on QoS Monitoring (S2-1811558; contact: Huawei)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816238	LS on New QCI-5QIs for FLUS (S4-181167; contact: Qualcomm)	SA4	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816239	LS reply on energy efficiency of 5G (S5-186375; contact: Orange)	SA5	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816240	Reply LS on Issues with AS Release Assistance Indicator (S2-1811471; contact: Qualcomm)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816241	LS on Core Network Overload Control with 'option 5 enabled eNB (S2-1811545; contact: Vodafone)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816242	Reply LS on initial NAS security agreements (S2-1811568; contact: Intel)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816243	Avoiding MME impacts from 3-byte TAC S2-1811574; contact: Qualcomm)	SA2	noted	2018-10-29 15:05:10	2018-10-29 15:08:35
R2-1816244	Mobility scaling for idle mode measurements	Sequans	not treated	2018-10-29 16:18:22	2018-10-31 15:22:00
R2-1816245	LPP Barometric Sensor AD Correction	Polaris	noted	2018-10-29 21:19:56	2018-11-02 00:02:03
R2-1816246	Sensor Assistance Data Elements Correction	Polaris	revised	2018-10-29 21:22:28	2018-11-02 00:02:03
R2-1816247	msg3 handling for switching from CBRA to CFRA	OPPO	not treated	2018-10-30 00:53:10	2018-11-02 03:47:06
R2-1816248	msg3 handling for switching from CBRA to CFRA - retransmission issue	OPPO	not treated	2018-10-30 00:53:10	2018-11-02 03:47:06
R2-1816249	LCP restrictions in case of duplication deactivation	OPPO	not treated	2018-10-30 00:53:16	2018-11-02 03:47:06
R2-1816250	[Draft] LS on the BWP switch delay	OPPO	not treated	2018-10-30 00:53:17	2018-11-02 03:47:06
R2-1816251	Allowing padding when UL grant size is larger than 8	OPPO	revised	2018-10-30 00:53:17	2018-11-02 03:47:06
R2-1816252	The impacts due to BWP switch delay	OPPO, CM	noted	2018-10-30 00:53:18	2018-11-02 03:47:06
R2-1816253	DRX inactivity timer considering BWP switching delay	OPPO, Qualcom	not treated	2018-10-30 00:53:18	2018-11-02 03:47:06
R2-1816254	bwp-InactivityTimer considering BWP switching delay	OPPO, CM	not treated	2018-10-30 00:53:19	2018-11-02 03:47:06
R2-1816255	Clarification on stopping bwp-InactivityTimer upon RACH initilization	OPPO	not pursued	2018-10-30 00:53:20	2018-11-02 03:47:06
R2-1816256	bwp-InactivityTimer behaviour for RRC based BWP switching case	OPPO	not pursued	2018-10-30 00:53:21	2018-11-02 03:47:06
R2-1816257	bwp-InactivityTimer when PDCCH indicating BWP switching is received	OPPO	withdrawn	2018-10-30 00:53:22	
R2-1816258	Search space configuration for cross carrier scheduling	OPPO	not treated	2018-10-30 00:53:23	2018-11-02 03:51:33
R2-1816259	RRC processing requirements considering BWP	OPPO	not treated	2018-10-30 00:53:24	2018-11-02 03:47:06
R2-1816260	SR transmission and procedure for NR-U and corresponding TP	OPPO	not treated	2018-10-30 00:53:25	2018-11-02 03:58:03
R2-1816261	Enhancements of 4-steps RACH in NR-U	OPPO	noted	2018-10-30 00:53:25	2018-11-02 03:58:03
R2-1816262	3-steps RACH procedure	OPPO	not treated	2018-10-30 00:53:25	2018-11-02 04:12:41
R2-1816263	2-steps contention based RACH procedure for NR-U	OPPO	not treated	2018-10-30 00:53:25	2018-11-02 03:58:03
R2-1816264	Configured uplink transmission for NR-U	OPPO	not treated	2018-10-30 00:53:25	2018-11-02 03:58:03
R2-1816265	BWP switching due to LBT	OPPO	not treated	2018-10-30 00:53:25	2018-11-05 13:54:10
R2-1816266	DRX operation for NR-U	OPPO	not treated	2018-10-30 00:53:25	2018-11-02 03:58:03
R2-1816267	System information enhancements in NR-U	OPPO	noted	2018-10-30 00:53:25	2018-11-02 03:58:03
R2-1816268	Paging enhancements in NR-U	OPPO	not treated	2018-10-30 00:53:25	2018-11-02 03:58:03
R2-1816269	Correction for sTTI	LG	agreed	2018-10-30 01:07:47	2018-11-02 04:54:17

R2-1816270	CR on 38.300 for Correction of BWP adaptation	LG Electronic	withdrawn	2018-10-30 01:33:06	
R2-1816271	[C204] Handling of timer T380	CAT	agreed	2018-10-30 01:49:42	2018-11-02 03:31:30
R2-1816272	Remain issue for T302	CAT	agreed	2018-10-30 01:49:43	2018-11-02 03:31:30
R2-1816273	[C245] Corrrection on barring alleviation notification	CAT	not treated	2018-10-30 01:49:44	2018-11-02 03:31:30
R2-1816274	Correction on the behaviors with cell reselection while T302 is running	CAT T	revised	2018-10-30 01:49:45	2018-11-02 03:31:30
R2-1816275	Bearer Type Negotiation for MR-DC with 5GC	CAT T	not treated	2018-10-30 01:49:46	2018-11-02 03:31:30
R2-1816276	Correction on the direction of MeasurementTimingConfiguration	CAT T	not treated	2018-10-30 01:49:46	2018-11-02 03:31:30
R2-1816277	Discussion on LCID as primary path	CAT T	not treated	2018-10-30 01:49:47	2018-11-02 05:57:20
R2-1816278	Draft LS to RAN3 on LCID as primary path	CAT T	not treated	2018-10-30 01:49:47	2018-11-02 05:57:20
R2-1816279	Clarification of dedicated NAS message receiving	CAT	not	2018-10-30 01:49:47	2018-11-02 03:31:30
R2-1816280	RRC resume for signalling only connection	CAT	not treated	2018-10-30 01:49:48	2018-11-02 03:31:30
R2-1816281	Mobility issue for NTN system	CAT	not treated	2018-10-30 01:49:49	2018-11-02 05:30:29
R2-1816282	Discussion on IEs included in the embedded RRC	CAT	not treated	2018-10-30 01:49:49	2018-11-02 03:31:30
R2-1816283	[103bis#13] Normative Annex of CRs Containing Early Implementable Features and Corrections	NTT DOC	revised	2018-10-30 04:56:47	2018-11-02 05:18:14
R2-1816284	Discussion on Invalid Subframe Handling for Timer Counting	NTT DOC	noted	2018-10-30 05:08:51	2018-11-02 06:53:25
R2-1816285	Starting Timers in the Middle of PDCCH Periods	NTT	noted	2018-10-30 05:12:21	2018-11-02 05:20:28
R2-1816286	Clarification of Paging Monitoring Occasion	Qualcom	revised	2018-10-30 05:20:41	2018-11-02 05:31:56
R2-1816287	Miscellaneous Corrections in Paging	Qualcom	revised	2018-10-30 05:26:57	2018-11-02 05:31:56
R2-1816288	Split DRB-IP data rate for UL and DL	Qualcom	revised	2018-10-30 05:31:08	2018-11-02 05:31:56
R2-1816289	On selecting a new equivalent PLMN in	Sam	not treated	2018-10-30 05:35:22	2018-11-21 06:18:02
R2-1816290	CR on SDAP reconfiguration handling	Qualcom	revised	2018-10-30 05:36:12	2018-11-02 05:31:56
R2-1816291	Specification impact analysis for UE behaviour upon camping in the acceptable cell	Samsung, Qual	noted	2018-10-30 05:39:04	2018-11-02 05:44:33
R2-1816292	Handling of Resume Failure	Qualcom	revised	2018-10-30 05:42:22	2018-11-02 05:31:56
R2-1816293	Clarification for the UE behaviour in camped normally and camped on any cell states	Qualcomm Incorporat	revised	2018-10-30 05:42:53	2018-11-02 05:44:33
R2-1816294	Clarification for the UE behaviour in camped normally and camped on any cell states	Samsung, Intel Corp	revised	2018-10-30 05:47:52	2018-11-02 05:44:33
R2-1816295	Overview of potential MBB enhancements	Samsung	not treated	2018-10-30 05:53:11	2018-11-05 10:57:33
R2-1816296	Interruption time reduction for MBB	Samsung	not treated	2018-10-30 05:55:20	2018-11-02 05:34:39
R2-1816297	RACH-less enhancements for reduced interruption time	Samsung	not treated	2018-10-30 05:58:27	2018-11-02 05:34:39
R2-1816298	Overview of flow control solutions for architecture 1 and	Sam	not treated	2018-10-30 06:00:29	2018-11-02 05:28:05
R2-1816299	Unified design for IAB CP and UP	Sam	not treated	2018-10-30 06:03:14	2018-11-02 05:28:05
R2-1816300	Msg3 handling for swtiching from CBRA to CFRA	Samsung	revised	2018-10-30 07:23:23	2018-11-01 23:42:34
R2-1816301	Correction to description of PO for default association	Samsung	agreed	2018-10-30 07:27:23	2018-11-01 23:42:34
R2-1816302	PDCCH Monitoring Occasions in SI Window	Samsung	revised	2018-10-30 07:29:54	2018-11-01 23:42:34
R2-1816303	RA Preamble Selection Procedure	Samsung	revised	2018-10-30 07:33:16	2018-11-01 23:42:34

R2-1816304	Handling Cell Reselection during SI Request	Samsung Elect	revised	2018-10-30 07:36:17	2018-11-01 23:42:34
R2-1816305	Acquiring MIB Upon Handover	Samsung Electronics	not treated	2018-10-30 07:39:43	2018-11-01 23:42:34
R2-1816306	Correction to MIB reading upon handover	Samsung	not treated	2018-10-30 07:42:37	2018-11-01 23:42:34
R2-1816307	Reply LS on network synchronization for handover purposes	Samsung	not treated	2018-10-30 07:48:44	2018-11-01 23:47:06
R2-1816308	Correction to SIB1 reading upon handover	Samsung	not pursued	2018-10-30 07:52:18	2018-11-01 23:42:34
R2-1816309	Measurement to select UL Carrier for Random Access_Option 1	Samsung	postponed	2018-10-30 07:56:11	2018-11-01 23:42:34
R2-1816310	Measurement to select UL Carrier for Random Access_Option 2	Samsung	postponed	2018-10-30 07:59:48	2018-11-01 23:42:34
R2-1816311	SCS for SI-Window determination	Samsung	not pursued	2018-10-30 08:03:28	2018-11-01 23:42:34
R2-1816312	Random Access Response Reception in NR-U	Samsung	not treated	2018-10-30 08:06:47	2018-11-01 23:42:34
R2-1816313	Paging in NR-U	Samsung	noted	2018-10-30 08:09:10	2018-11-01 23:42:34
R2-1816314	SI Update in NR-U	Samsung	noted	2018-10-30 08:11:24	2018-11-01 23:42:34
R2-1816315	On Demand SI in NR-U	Samsung	not treated	2018-10-30 08:13:56	2018-11-01 23:42:34
R2-1816316	Frequency Domain Aspects of SI Message TX/RX in NR-U	Samsung	noted	2018-10-30 08:16:04	2018-11-01 23:42:34
R2-1816317	Mapping between SI Messages and SI Windows in NR-U	Samsung	noted	2018-10-30 08:18:26	2018-11-01 23:42:34
R2-1816318	Correction to Skipping PDCCH monitoring occasions overlapping with UL symbols	Samsung	revised	2018-10-30 08:21:23	2018-11-01 23:42:34
R2-1816319	Correction to Cell Quality derivation for cell reselection	Samsung	merged	2018-10-30 08:26:22	2018-11-01 23:42:34
R2-1816320	Correction to description of parameter nAndPagingFrameOffset	Samsung	revised	2018-10-30 08:45:09	2018-11-01 23:42:34
R2-1816321	Correction to description of parameter Ns	Samsung	agreed	2018-10-30 08:48:24	2018-11-01 23:42:34
R2-1816322	UE Behaviour after Failure SI Acquisition	vivo,	noted	2018-10-30 10:08:49	2018-11-02 06:30:09
R2-1816323	CR on UE behaviour after SI acquisition failure	vivo,	revised	2018-10-30 10:08:49	2018-11-02 06:30:09
R2-1816324	Correction on PDCCH Monitoring Occasions in SI Window	vivo	merged	2018-10-30 10:08:51	2018-11-02 06:30:09
R2-1816325	CR on missing SMTC for HO and intra-NR redirection	vivo	not	2018-10-30 10:08:52	2018-11-02 06:30:09
R2-1816326	CR on PUCCH-ConfigCommon	vivo	revised	2018-10-30 10:08:54	2018-11-02 06:30:09
R2-1816327	Clarification on MIB acquisition during SpCell change	vivo, Intel	not treated	2018-10-30 10:08:55	2018-11-02 06:30:09
R2-1816328	Clarification on MIB acquisition during SpCell change	vivo, Intel	not treated	2018-10-30 10:08:55	2018-11-02 06:30:10
R2-1816329	Clarifications on receiving RRCReject without wait	vivo	revised	2018-10-30 10:08:56	2018-11-02 06:30:10
R2-1816330	Handling EPLMN selection in RRC_INACTIVE state for RNAU case	vivo	withdrawn	2018-10-30 10:08:56	
R2-1816331	CP signalling and procedure of DC handover	vivo	not treated	2018-10-30 10:08:56	2018-11-02 06:30:10
R2-1816332	UP architecture and impacts of split bearer handover	vivo	not treated	2018-10-30 10:08:56	2018-11-02 06:30:10
R2-1816333	Mobility robustness evaluation for conditional handover	vivo	not treated	2018-10-30 10:08:56	2018-11-02 06:30:10
R2-1816334	Signaling procedures of conditional handover	vivo	not treated	2018-10-30 10:08:56	2018-11-02 06:30:10
R2-1816335	Consideration on 5GC support of LTE mobility	vivo	not treated	2018-10-30 10:08:56	2018-11-02 06:30:10
R2-1816336	Correction of BWP adaptation	LG Elect	agreed	2018-10-30 10:19:41	2018-11-02 04:54:17
R2-1816337	Discussion on target scenarios for NR-V2X	OPP	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816338	Discussion on resource allocation mode for NR-V2X	OPP	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15

R2-1816339	Discussion on CP aspects of unicast and groupcast for NR-V2X	OPPO	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816340	Discussion on UP aspects of unicast and groupcast for NR-V2X	OPPO	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816341	Discussion on Inter-RAT Control for NR-V2X	OPP	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816342	Discussion on QoS for NR-V2X	OPP	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816343	Discussion on LS of multiple UL SPS for NR-V2X	OPP	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816344	Discussion on RAT and interface selection ofr NR-V2X	OPP	not treated	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816345	Correction on HARQ re-transmission resource	OPP	revised	2018-10-30 10:45:36	2018-11-02 06:38:15
R2-1816346	Correction on HARQ re-transmission resource	OPP	revised	2018-10-30 10:45:38	2018-11-02 06:38:15
R2-1816347	Correction for sidelink measurement periodical triggering condition	OPPO	agreed	2018-10-30 10:45:39	2018-11-02 06:38:15
R2-1816348	Correction for sidelink measurement periodical triggering condition	OPPO	agreed	2018-10-30 10:47:59	2018-11-02 06:38:15
R2-1816349	Correction for duplication based on Rel-14 TX profile	OPP	agreed	2018-10-30 10:48:00	2018-11-02 06:38:15
R2-1816350	Correction on UE capability	OPP	revised	2018-10-30 10:48:01	2018-11-02 06:38:15
R2-1816351	Correction on UE capability	OPP	revised	2018-10-30 10:48:02	2018-11-02 06:38:15
R2-1816352	Correction on PDCP for eV2X	OPP	revised	2018-10-30 10:48:03	2018-11-02 06:38:15
R2-1816353	Subframe Counting Scenarios for R2-1816285	NTT DOCOMO INC.	noted	2018-10-30 10:54:11	2018-11-02 00:14:30
R2-1816354	Msg3 grant overlapping with another UL grant	CAT	noted	2018-10-30 10:54:53	2018-11-02 06:27:01
R2-1816355	Correction for Msg3 grant overlapping with another UL	CAT	revised	2018-10-30 10:54:53	2018-11-02 06:27:01
R2-1816356	Correction on the scaling between CSI-RS and SSB for	CAT	agreed	2018-10-30 10:54:54	2018-11-02 06:27:01
R2-1816357	Further clarification on PH type determination	CAT	not	2018-10-30 10:54:55	2018-11-02 06:27:01
R2-1816358	Correction addressing UL grant / MAC PDU mismatch on HARQ process 0	CATT, Qualcom	not pursued	2018-10-30 10:54:56	2018-11-02 06:27:01
R2-1816359	Correction on SR cancellation statement	CAT	not	2018-10-30 10:54:57	2018-11-02 06:27:01
R2-1816360	PTP 1588 support in 5GS/TSN	CAT	noted	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816361	RAN scheduling impacts from TSN requirements	CAT	not treated	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816362	Ethernet Header Compression	CAT	not treated	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816363	5GS and TSN integration	CAT	not treated	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816364	Intra-UE Prioritization and Multiplexing for IIoT	CAT	not treated	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816365	Multiple Configured Grant Configurations	CAT	not treated	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816366	Considerations on duplication support for IIoT	CAT	not treated	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816367	Resource efficiency considering PDCP duplication	CAT	not treated	2018-10-30 10:54:58	2018-11-02 06:27:01
R2-1816368	Discussion on HARQ-ARQ num repetitions	Hua	noted	2018-10-30 12:12:26	2018-11-02 06:23:34
R2-1816369	Mandating the signalling of ack-NACK-NumRepetition when there is no previous value	Huawei,	not treated	2018-10-30 12:12:26	2018-11-02 06:23:34
R2-1816370	Mandating the signalling of ack-NACK-NumRepetition when there is no previous value	Huawei,	not treated	2018-10-30 12:12:31	2018-11-02 06:23:34
R2-1816371	Mandating the signalling of ack-NACK-NumRepetition when there is no previous value	Huawei,	not treated	2018-10-30 12:12:32	2018-11-02 06:23:34
R2-1816372	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei,	not pursued	2018-10-30 12:12:33	2018-11-02 06:23:34
R2-1816373	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei,	revised	2018-10-30 12:12:34	2018-11-02 06:23:34
R2-1816374	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei,	revised	2018-10-30 12:12:35	2018-11-02 06:23:34
R2-1816375	Correction to RSRP threshold in 36.331	Huawei,	not pursued	2018-10-30 12:12:36	2018-11-02 06:23:34
R2-1816376	Correction to RSRP threshold in 36.331	Huawei,	not pursued	2018-10-30 12:12:37	2018-11-02 06:23:34
R2-1816377	Correction to RSRP threshold in 36.331	Huawei,	not pursued	2018-10-30 12:12:38	2018-11-02 06:23:34
R2-1816378	Editorial restructuring of NPRACH resource configuration	Huawei,	agreed	2018-10-30 12:12:39	2018-11-02 06:23:34
R2-1816379	Editorial restructuring of NPRACH resource configuration	Huawei,	agreed	2018-10-30 12:12:40	2018-11-02 06:23:34
R2-1816380	Corrections to random access power control for TDD in 36.321	Huawei,	agreed	2018-10-30 12:12:41	2018-11-02 06:23:34

R2-1816381	Corrections to random access power control for TDD in 36.331	Huawei,	agreed	2018-10-30 12:12:42	2018-11-02 06:23:34
R2-1816382	Adding NSSS-based RRM measurements, NPBCH-Based RRM measurements and npusch-3dot75kHz-SCS-TDD-r15 and removing twoHARQ-	Huawei, HiSil	agreed	2018-10-30 12:12:43	2018-11-02 06:23:34
R2-1816383	Clarification of features not supported in NB-IoT	Huawei, HiSil	agreed	2018-10-30 12:12:44	2018-11-02 06:23:34
R2-1816384	Clarification of features not supported in NB-IoT	Huawei, HiSil	revised	2018-10-30 12:12:45	2018-11-02 06:23:34
R2-1816385	Miscellaneous corrections and cleanup for NB-IoT Rel-	Hua	revised	2018-10-30 12:12:46	2018-11-02 06:23:34
R2-1816386	Introduction of TDD UL/DL configuration for NB-IoT in	Hua	revised	2018-10-30 12:12:48	2018-11-02 06:23:34
R2-1816387	Correction to gap determination for the wake-up signal	Huawei,	revised	2018-10-30 12:12:49	2018-11-02 06:23:34
R2-1816388	Correction to start of RAR window for NPRACH fmt2 in 36.321	Huawei,	revised	2018-10-30 12:12:50	2018-11-02 06:23:34
R2-1816389	Corrections to EDT in 36.331	Huawei,	agreed	2018-10-30 12:12:51	2018-11-02 06:23:34
R2-1816390	Removal of duplicate rel-15 NB-IoT/eMTC capabilities and introducing TDD-FDD differentiation for WUS capabilities in eMTC	Huawei, HiSil	agreed	2018-10-30 12:12:53	2018-11-02 06:23:34
R2-1816391	Msg3 buffer handling for EDT in 36.321	Huawei, HiSil	agreed	2018-10-30 12:12:54	2018-11-02 06:23:34
R2-1816392	Corrections to EDT in 36.321	Huawei,	revised	2018-10-30 12:12:55	2018-11-02 06:23:34
R2-1816393	Additional Corrections to EDT in 36.331	Huawei,	revised	2018-10-30 12:12:56	2018-11-02 06:23:34
R2-1816394	Data loss handling in UP-EDT	Huawei,	noted	2018-10-30 12:12:57	2018-11-02 06:23:34
R2-1816395	Clarification on when UL data transmission in EDT is not considered successful	Huawei,	revised	2018-10-30 12:12:57	2018-11-02 06:23:34
R2-1816396	Discussion on CT1 LS on EDT	Huawei,	noted	2018-10-30 12:12:58	2018-11-02 06:23:34
R2-1816397	Clarification on interactions with upper layers for EDT	Huawei,	not pursued	2018-10-30 12:12:58	2018-11-02 06:23:34
R2-1816398	[DRAFT] Reply LS on successful completion of early data transmission	Huawei	noted	2018-10-30 12:12:59	2018-11-02 06:23:34
R2-1816399	Correction to RSRP based EAB in 36.331	Huawei,	not pursued	2018-10-30 12:12:59	2018-11-02 06:23:34
R2-1816400	Group based wake-up signal	Huawei,	not treated	2018-10-30 12:13:00	2018-11-02 06:23:34
R2-1816401	Uplink transmission in dedicated pre-configured resource	Huawei,	noted	2018-10-30 12:13:00	2018-11-02 06:23:34
R2-1816402	Discussion on RACH report	Hua	not treated	2018-10-30 12:13:00	2018-11-02 06:23:34
R2-1816403	Discussion on RLF report	Hua	not treated	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816404	Discussion on ANR report	Hua	not treated	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816405	Support of Quality report in Msg3 for non-anchor	Hua	not treated	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816406	Presence of NRS on a non-anchor carrier for paging	Hua	not treated	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816407	Assistance information for idle mode inter-RAT cell	Hua	not treated	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816408	General aspects of MT-EDT	Huawei,	noted	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816409	Overview of MT EDT options	Huawei,	not treated	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816410	Scheduling of multiple DL/UL transport blocks	Huawei,	noted	2018-10-30 12:13:00	2018-11-02 06:23:35
R2-1816411	Corrections to EDT in 36.321	Huawei, HiSil	revised	2018-10-30 12:17:48	2018-11-02 06:23:35
R2-1816412	RDI handling for data forwarding at handover	Nokia, Erics	agreed	2018-10-30 12:28:27	2018-11-02 05:14:18
R2-1816413	SON Overview	Rapp	agreed	2018-10-30 12:28:29	2018-11-02 05:14:18
R2-1816414	Scheduling Request Overview	Rapporteu	agreed	2018-10-30 12:28:30	2018-11-02 05:14:18

R2-1816415	System Information Provisioning	Rapporteur	agreed	2018-10-30 12:28:31	2018-11-02 05:14:18
R2-1816416	Transport of NAS Messages	Rapp	revised	2018-10-30 12:28:32	2018-11-02 05:14:18
R2-1816417	Notification Control	Rapp	revised	2018-10-30 12:28:33	2018-11-02 05:14:18
R2-1816418	PDU Session AMBR	Rapp	revised	2018-10-30 12:28:34	2018-11-02 05:14:18
R2-1816419	Logical channel restrictions clarifications and correction	Rapporteur (Nok	agreed	2018-10-30 12:28:35	2018-11-02 05:14:18
R2-1816420	Initial CORESET	Rapp	revised	2018-10-30 12:28:35	2018-11-02 05:14:18
R2-1816421	Enabling and disabling integrity protection on a DRB in MR-DC	Nokia,	not treated	2018-10-30 12:28:36	2018-11-02 05:14:18
R2-1816422	QoS Flow Indication in DC	Nokia,	not treated	2018-10-30 12:28:36	2018-11-02 05:14:18
R2-1816423	QoS Flow Indication in DC	Nokia,	not treated	2018-10-30 12:28:36	2018-11-02 05:14:18
R2-1816424	MT EDT Reception Options	Gemalto	reserved	2018-10-30 13:07:22	
R2-1816425	Cell re-selection considerations	Gem	not treated	2018-10-30 13:18:29	2018-11-01 09:46:44
R2-1816426	Considerations on NB-IoT cell selection	Gem	not treated	2018-10-30 13:21:39	2018-11-01 09:46:44
R2-1816427	ANR considerations for NB-IoT	Gem	not treated	2018-10-30 13:24:11	2018-11-01 09:46:44
R2-1816428	CR on SSB SCS in MO configuration	vivo	not treated	2018-10-30 14:49:50	2018-11-02 06:30:10
R2-1816429	CR on powerControlOffset	vivo	revised	2018-10-30 14:49:51	2018-11-02 06:30:10
R2-1816430	Segmentation awareness in UE and Network	vivo	not treated	2018-10-30 14:49:52	2018-11-02 06:30:10
R2-1816431	Consideration on remaining issue of UE capability ID	vivo	not treated	2018-10-30 14:49:52	2018-11-02 06:30:10
R2-1816432	Consideration of the RRC support of DC HO	vivo	not treated	2018-10-30 14:49:52	2018-11-02 06:30:10
R2-1816433	CR on short message	vivo	not	2018-10-30 15:43:23	2018-11-02 06:30:10
R2-1816434	Any cell state from NR to LTE	vivo	withdrawn	2018-10-30 15:43:24	
R2-1816435	Modifications to RACH procedure due to LBT	Motorola	not treated	2018-10-30 16:25:43	2018-10-30 16:36:13
R2-1816436	UE-Group Wake-Up Signal	Fraunhofe	not treated	2018-10-30 17:05:00	2018-11-01 16:01:47
R2-1816437	Corrections to procedure upon Reception of the RRCConnectionSetup	Qualcom	agreed	2018-10-30 21:13:35	2018-11-01 22:42:09
R2-1816438	Clarification for additional SRS symbols	Qualcom	agreed	2018-10-30 22:33:32	2018-11-01 22:42:09
R2-1816439	Clarification for additional SRS symbols	Qualcom	agreed	2018-10-30 22:34:32	2018-11-01 22:42:09
R2-1816440	Clarification of Qoffsettemp for eLTE in 36.304	LG Elect	revised	2018-10-30 22:53:24	2018-10-30 23:45:49
R2-1816441	Corrections on Qoffsettemp for LTE in 36.304	LG Elect	not pursued	2018-10-30 22:56:20	2018-10-30 23:45:49
R2-1816442	Considerations on RRC connection handling in NTN	LG	not treated	2018-10-30 22:59:42	2018-10-30 23:45:49
R2-1816443	Clarification of MICO mode in inactive state	LG	not	2018-10-30 23:05:47	2018-10-30 23:45:49
R2-1816444	MICO mode operation in inactive state	LG	not treated	2018-10-30 23:08:09	2018-10-30 23:45:49
R2-1816445	Alternative for security key change and reducing signalling overhead in DC based HO	LG Elect	not treated	2018-10-30 23:28:31	2018-10-31 04:22:57
R2-1816446	Paging enhancements in NR Unlicensed band	LG Elect	noted	2018-10-30 23:33:16	2018-10-31 04:22:57
R2-1816447	Discussion on the Issue for paging in NTN	LG	not treated	2018-10-30 23:35:23	2018-10-31 04:22:57
R2-1816448	Reply LS on maximum output size of SUPI concealment schemes (C1-186992; contact: Ericsson)	CT1	noted	2018-10-31 00:45:03	2018-10-31 00:52:07
R2-1816449	Reply LS on Maximum output size of SUPI concealment schemes (C4-187633; contact: Ericsson)	CT4	noted	2018-10-31 00:47:46	2018-10-31 00:52:07
R2-1816450	Msg3 handling for switching from CBRA to CFRA_Updated	Samsung	merged	2018-10-31 02:06:06	2018-11-01 23:42:34
R2-1816451	Correction to configuration of firstPDCCH-MonitoringOccasionOfPO	Samsung	revised	2018-10-31 02:17:30	2018-11-01 23:42:34
R2-1816452	PDCCH Monitoring Occasions in SI Window_Updated	Samsung	reserved	2018-10-31 02:21:49	
R2-1816453	Definitions addition of network nodes	CAT	not	2018-10-31 03:16:58	2018-11-02 03:31:30
R2-1816454	Indication of stop receiving PWS	CAT	not treated	2018-10-31 03:16:59	2018-11-02 03:31:30

R2-1816455	UE action of failing to receive on-demand SI message	CAT	not treated	2018-10-31 03:17:00	2018-11-02 03:31:30
R2-1816456	Correction for E-UTRA connected to 5GC Stage-2	OPPO	agreed	2018-10-31 04:10:05	2018-11-01 02:13:59
R2-1816457	Correction for E-UTRA connected to 5GC Procedures	OPPO	agreed	2018-10-31 04:03:42	2018-11-01 02:13:59
R2-1816458	CR on Handling of Unsuccessful On-Demand SI Message Acquisition	OPPO	not treated	2018-10-31 04:03:51	2018-11-01 02:13:59
R2-1816459	Discussion on Handling CN Overload Issue for eLTE	OPP	revised	2018-10-31 04:03:52	2018-11-02 04:40:01
R2-1816460	CR on BWP Switching during SI Update	OPPO	not treated	2018-10-31 04:03:52	2018-11-01 13:18:23
R2-1816461	CR on BWP Switching during SI Update	OPPO	withdrawn	2018-10-31 04:03:53	
R2-1816462	Further Discussion on UE Capability ID based Solution	OPPO	revised	2018-10-31 04:03:54	2018-11-01 13:18:23
R2-1816463	Discussion on UE Capability Update	OPPO	not treated	2018-10-31 04:03:54	2018-11-01 13:18:23
R2-1816464	Discussion on UE Capability Segmentation	OPPO	not treated	2018-10-31 04:03:54	2018-11-01 13:18:23
R2-1816465	Discussion on Capability Coordination for LTE Mobility Enhancements	OPPO	not treated	2018-10-31 04:03:54	2018-11-01 13:18:23
R2-1816466	Discussion on Power Class and Pmax for FR1 and FR2	OPPO	not treated	2018-10-31 04:03:54	2018-11-01 13:18:23
R2-1816467	MT EDT Data Reception Options	Gemalto	not treated	2018-10-31 05:00:08	2018-10-31 05:03:31
R2-1816468	Correction on MCS for V2X sidelink communication in TS 36.302	Huawei,	agreed	2018-10-31 05:14:41	2018-11-01 13:54:31
R2-1816469	Correction on V2X sidelink communication in TS	Hua	revised	2018-10-31 05:14:42	2018-11-01 13:54:31
R2-1816470	Correction on V2X sidelink communication in TS	Hua	agreed	2018-10-31 05:14:43	2018-11-01 13:54:31
R2-1816471	Miscellaneous corrections in TS 36.331 on eV2X	Hua	revised	2018-10-31 05:14:44	2018-11-01 13:54:31
R2-1816472	Discussion on inappropriate resource reselection behavior in PC5 CA	Huawei,	not treated	2018-10-31 05:14:45	2018-11-01 13:54:31
R2-1816473	Correction on inappropriate resource reselection behavior in TS 36.321	Huawei,	not treated	2018-10-31 05:14:45	2018-11-01 13:54:31
R2-1816474	CR on carrier frequency indication in SidelinkUEInformation (Opt 1)	Huawei,	not treated	2018-10-31 05:14:46	2018-11-01 13:54:31
R2-1816475	CR on carrier frequency indication in SidelinkUEInformation (Opt 2)	Huawei,	revised	2018-10-31 05:14:47	2018-11-01 13:54:31
R2-1816476	Correction on sidelink packet duplication configuration in TS 36.331	Huawei,	noted	2018-10-31 05:14:48	2018-11-01 13:54:31
R2-1816477	Update of L1/RF capabilities	NTT DOC	revised	2018-10-31 05:58:36	2018-11-09 07:05:15
R2-1816478	LBT for RACH in NR-U	Medi	not treated	2018-10-31 06:41:55	2018-11-01 21:36:23
R2-1816479	LBT for PUCCH in NR-U	Medi	not treated	2018-10-31 06:44:57	2018-11-01 21:36:37
R2-1816480	Mobility in NR-U	Medi	withdrawn	2018-10-31 06:55:20	2018-11-01 21:36:47
R2-1816481	Cell Selection and Reselection in NR-U	Medi	withdrawn	2018-10-31 06:56:51	2018-11-01 21:36:58
R2-1816482	Discussion on paging reception failure for RRC_INACTIVE state	OPPO	not treated	2018-10-31 07:08:38	2018-11-02 02:21:59
R2-1816483	Discussion on SI change indication for RRC_CONNECTED UE	OPPO	not treated	2018-10-31 07:08:38	2018-11-02 02:22:53
R2-1816484	38.331CR on SI change indication for RRC_CONNECTED UE	OPPO	not treated	2018-10-31 07:08:38	2018-11-02 02:22:53
R2-1816485	Draft LS on the SI change indication	OPPO	not treated	2018-10-31 07:08:42	2018-11-02 02:22:53
R2-1816486	Discussion on ANR in MR-DC	OPP	not treated	2018-10-31 07:08:42	2018-11-02 02:22:53
R2-1816487	the security open issues for MR-DC	OPP	not treated	2018-10-31 07:08:42	2018-11-02 02:22:53
R2-1816488	the SDAP supporting for MR-DC	OPPO	not treated	2018-10-31 07:08:42	2018-11-02 02:22:53
R2-1816489	INACTIVE state supporting for MR-DC with 5GC	OPPO	not treated	2018-10-31 07:08:42	2018-11-02 02:22:53
R2-1816490	37.340 CR on SDAP configuraiton for MR-DC	OPP	not	2018-10-31 07:08:42	2018-11-02 02:22:53
R2-1816491	37.340 Text proposal on security for MR-DC	OPP	not treated	2018-10-31 07:08:43	2018-11-02 02:22:53
R2-1816492	open issues for RRC signaling only connection	OPP	noted	2018-10-31 07:08:44	2018-11-02 02:21:59
R2-1816493	Security algorithom update in RRC reestablishment	OPP	not treated	2018-10-31 07:08:44	2018-11-02 02:21:59
R2-1816494	Corrections on security field descriptions	OPP	agreed	2018-10-31 07:08:44	2018-11-02 02:21:59

R2-1816495	Corrections on 38.304	OPP	revised	2018-10-31 07:08:45	2018-11-02 02:21:59
R2-1816496	Corrections on storing and discarding UE AS context	OPP	revised	2018-10-31 07:08:46	2018-11-02 02:21:59
R2-1816497	Corrections on Counter check procedure	OPP	not	2018-10-31 07:08:47	2018-11-02 02:21:59
R2-1816498	Correction on DL SPS configuration	OPP	not	2018-10-31 07:22:33	2018-11-02 06:38:15
R2-1816499	Field description of nrofReportedRS	vivo	merged	2018-10-31 07:38:19	2018-11-02 05:28:40
R2-1816500	Correction on PDSCH and PUCCH description	vivo	not	2018-10-31 07:38:20	2018-11-02 05:28:40
R2-1816501	Correction on choice of 16-bit TAC	vivo	merged	2018-10-31 07:38:22	2018-11-02 05:28:40
R2-1816502	ANR coordination between MN and SN	vivo	not treated	2018-10-31 07:38:23	2018-11-02 05:28:40
R2-1816503	ANR coordination between MN and SN	vivo	not treated	2018-10-31 07:38:24	2018-11-02 05:28:40
R2-1816504	Enable or disable DRB IP without MAC reset	vivo	not treated	2018-10-31 07:38:24	2018-11-02 05:28:40
R2-1816505	Enable or disable DRB IP without MAC reset	vivo	not treated	2018-10-31 07:38:25	2018-11-02 05:28:40
R2-1816506	CA duplication on SN terminated MCG bearer	vivo	not treated	2018-10-31 07:38:25	2018-11-02 05:28:40
R2-1816507	CA duplication on SN terminated MCG bearer	vivo	not treated	2018-10-31 07:38:25	2018-11-02 05:28:40
R2-1816508	Duplication support in IAB	vivo	not treated	2018-10-31 07:38:27	2018-11-02 06:03:08
R2-1816509	Selection of Parent for IAB-Node	vivo	not treated	2018-10-31 07:38:27	2018-11-02 06:03:08
R2-1816510	Enhance E-CID positioning with SSB information	ZTE	not treated	2018-10-31 08:00:37	2018-11-02 01:28:08
R2-1816511	RRC buffer size restriction	Medi	noted	2018-10-31 08:31:15	2018-11-02 06:28:10
R2-1816512	Introduce RRC buffer size in NR	Medi	revised	2018-10-31 08:36:06	2018-11-02 06:28:10
R2-1816513	Single/Dual RRC for multiple connectivity during HO	Medi aTek	not treated	2018-10-31 08:38:42	2018-11-02 06:28:10
R2-1816514	Analysis on split-bearer and non-split bearer solutions	Medi aTek	not treated	2018-10-31 08:40:46	2018-11-02 06:28:10
R2-1816515	Summary of Email Discussion [103bis#36][NR/V2X] CP aspects for NR sidelink design	Hua wei	noted	2018-10-31 09:03:06	2018-11-09 11:52:01
R2-1816516	Reliability enhancements for NR sidelink broadcast	Hua wei,	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816517	Potential AS layer impacts on SL connection setup and configuration in unicast	Hua wei,	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816518	Potential RAN2 impacts on gNB scheduled resource allocation for NR V2X	Hua wei,	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816519	Discussion on RAT/interface selection	Hua	withdrawn	2018-10-31 09:03:06	
R2-1816520	Initial thinking on potential RAN2 impacts on NR SL synchronization	Hua wei,	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816521	QoS support for NR V2X	Hua	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816522	Radio bearer configuration and management for NR	Hua	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816523	SC-PTM support for NR Uu	Hua	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816524	Support of mode switch and multiple modes coexistence for NR sidelink	Hua wei,	not treated	2018-10-31 09:03:06	2018-11-02 05:18:00
R2-1816525	CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation	ZTE Corp	revised	2018-10-31 09:04:25	2018-11-01 22:23:46
R2-1816526	Correction on PCCH-Config	vivo	revised	2018-10-31 09:48:04	2018-11-02 06:30:10
R2-1816527	Addition of RAN specific Access Category	Noki a,	withdrawn	2018-10-31 10:39:45	2018-11-02 02:29:41
R2-1816528	Addition of RAN specific Access Category	Noki a,	withdrawn	2018-10-31 10:39:46	2018-11-02 02:29:41
R2-1816529	Clarification to no barring configuration for Implicit UAC	Noki a,	withdrawn	2018-10-31 10:39:47	2018-11-02 02:29:41
R2-1816530	Clarification to no barring configuration for Implicit UAC	Noki a,	agreed	2018-10-31 10:39:48	2018-11-02 02:29:41
R2-1816531	Correction to Access Category and barring config determination for Implicit UAC	Noki a,	withdrawn	2018-10-31 10:39:49	2018-11-02 02:29:41
R2-1816532	Correction to Access Category and barring config determination for Implicit access barring	Noki a,	agreed	2018-10-31 10:39:50	2018-11-02 02:29:41
R2-1816533	Correction on maximum symbols for PUSCH transmission in UpPTS	Noki a,	withdrawn	2018-10-31 10:39:52	2018-11-02 02:29:41
R2-1816534	Correction on maximum symbols for PUSCH transmission in UpPTS	Noki a,	withdrawn	2018-10-31 10:39:55	2018-11-02 02:29:41
R2-1816535	Basic Voice support	Rapp	withdrawn	2018-10-31 10:39:57	2018-11-02 02:29:41
R2-1816536	Slice Aware Access Control	Noki a,	withdrawn	2018-10-31 10:39:59	2018-11-02 02:29:41
R2-1816537	Assistance information for NR overheating	Noki a,	not treated	2018-10-31 10:40:01	2018-11-02 02:29:41
R2-1816538	Report of email discussion [103bis#33] [NR - NTN]	THA	agreed	2018-10-31 10:43:13	2018-11-02 16:27:45
R2-1816539	Per serving cell MIMO layer configuration	Medi	revised	2018-10-31 10:59:44	2018-11-02 05:37:50

R2-1816540	Per BWP MIMO layer configuration	Medi	withdrawn	2018-10-31 11:03:38	
R2-1816541	Clarification of multipleConfiguredGrants	Medi	revised	2018-10-31 11:12:06	2018-11-02 05:37:50
R2-1816542	Update description of consecutive precoders used for NSSS	Qualcomm Incorporat	agreed	2018-10-31 11:51:17	2018-11-01 19:05:08
R2-1816543	Scheduling of multiple DL/UL transport blocks	Qualcom	noted	2018-10-31 11:51:18	2018-11-01 19:05:08
R2-1816544	Support of ETWS/CMAS by non-BL UE operating in CE mode	Qualcom	not treated	2018-10-31 11:51:18	2018-11-01 19:05:08
R2-1816545	Downlink channel quality reporting in MSG3 for eMTC	Qualcom	not treated	2018-10-31 11:51:18	2018-11-01 19:05:08
R2-1816546	UE grouping on wake-up signal channel	Qualcom	noted	2018-10-31 11:51:18	2018-11-01 19:05:08
R2-1816547	Channel quality reporting for non-anchor carriers	Qualcom	not treated	2018-10-31 11:51:18	2018-11-01 19:05:08
R2-1816548	Non-anchor carrier measurements for RRM	Qualcom	noted	2018-10-31 11:51:18	2018-11-01 19:05:08
R2-1816549	Draft LS on USS direct indication for ETWS/CMAS for eMTC	Qualcom	not treated	2018-10-31 12:03:15	2018-11-01 19:05:08
R2-1816550	Support beam sweeping OTDOA	ZTE	not treated	2018-10-31 12:32:21	2018-11-02 01:28:08
R2-1816551	Corrections to multiple SPS configurations after sTTI and HRLLC merge	Ericsson, OPPO	agreed	2018-10-31 13:01:46	2018-11-01 17:15:13
R2-1816552	Correction to reconfiguration with sync	Goog	revised	2018-10-31 13:04:02	2018-11-02 06:55:27
R2-1816553	Introduction of Ultra Reliable Low Latency Communication for LTE	MCC	not pursued	2018-10-31 13:08:10	2018-10-31 14:59:51
R2-1816554	Clarification on RRCResumeRequest1	Goog	not	2018-10-31 13:10:41	2018-11-02 06:55:27
R2-1816555	ECN support in NR	MC	agreed	2018-10-31 13:12:01	2018-10-31 14:59:51
R2-1816556	Correction to full configuration	Google Inc.,	agreed	2018-10-31 13:19:43	2018-11-02 06:55:27
R2-1816557	Support of multiple UL SPS configurations and configuration of repetition	Ericsson	revised	2018-10-31 13:43:54	2018-11-01 17:15:13
R2-1816558	End to end flow control for IAB networks	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816559	Hop by hop flow control for IAB networks	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816560	Summary of email discussion [103bis_30][NR-IAB] Adaptation layer non-IP or IP	Ericsson	not treated	2018-10-31 13:48:32	2018-11-21 06:18:02
R2-1816561	IAB node selection and reselection in RRC_IDLE	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816562	IAB node relocation	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816563	Mapping of CP data over backhaul links	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816564	Minimumizing CN functionalities for IAB network	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816565	Way forward on CU-DU separation	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816566	Considerations on SCTP overhead	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816567	Network slicing in IAB networks	Erics	not treated	2018-10-31 13:48:32	2018-11-02 02:49:43
R2-1816568	TP for Channel Access Priority Class in NR-U	Charter Communications	agreed	2018-10-31 14:04:17	2018-11-01 19:05:19
R2-1816569	Remaining issues of measurement in NE-DC	Qualcom	noted	2018-10-31 14:18:31	2018-11-02 03:22:29
R2-1816570	Remaining issues of measurement in NR-DC	Qualcom	noted	2018-10-31 14:20:08	2018-11-02 03:22:29
R2-1816571	CR to 38.331 on rbg-Size in PDSCH-Config, PUSCH-Config and ConfiguredGrantConfig	Qualcom	revised	2018-10-31 14:20:20	2018-11-02 03:22:29
R2-1816572	Discussion on measurement gap related actions upon HO	Qualcom	not treated	2018-10-31 14:22:25	2018-11-02 03:22:29
R2-1816573	CR to 38.331 on RACH-ConfigGeneric	Qualcom	merged	2018-10-31 14:25:24	2018-11-02 03:22:29
R2-1816574	CR to 36.331 on frequency band indicator in MeasObjectNR	Qualcom	not treated	2018-10-31 14:28:04	2018-11-02 03:22:29

R2-1816575	Scheduling in IAB networks	Erics	not treated	2018-10-31 14:29:35	2018-11-01 21:25:26
R2-1816576	User plane latency in IAB networks	Erics	not treated	2018-10-31 14:29:35	2018-11-01 21:25:26
R2-1816577	PDCP Design Aspects for hop-by-hop	Erics	not treated	2018-10-31 14:29:35	2018-11-01 21:25:26
R2-1816578	RLC UM design aspects	Erics	not treated	2018-10-31 14:29:35	2018-11-01 21:25:26
R2-1816579	Suspension of Transmission upon Failure of Backhaul	Erics	not treated	2018-10-31 14:29:35	2018-11-01 21:25:26
R2-1816580	Setup Procedure for the Adaptation Layer of an IAB	Erics	noted	2018-10-31 14:29:35	2018-11-01 20:52:07
R2-1816581	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai	agreed	2018-10-31 14:34:22	2018-11-02 06:12:04
R2-1816582	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai	agreed	2018-10-31 14:34:24	2018-11-02 06:12:04
R2-1816583	Clarification to CA fallback band combinations	Nokia, Nokia Shanghai	agreed	2018-10-31 14:34:25	2018-11-02 06:12:04
R2-1816584	Corrections to eCA configurations	Nokia,	not pursued	2018-10-31 14:34:26	2018-11-02 06:12:04
R2-1816585	Corrections to eCA configurations	Nokia,	not pursued	2018-10-31 14:34:27	2018-11-02 06:12:04
R2-1816586	Corrections to eCA configurations	Nokia,	revised	2018-10-31 14:34:28	2018-11-02 06:12:04
R2-1816587	Clarification to UE capabilities for CA	Nokia,	revised	2018-10-31 14:34:29	2018-11-02 06:12:04
R2-1816588	Clarification to UE capabilities for CA	Nokia,	revised	2018-10-31 14:34:30	2018-11-02 06:12:04
R2-1816589	Clarification to UE capabilities for CA	Nokia,	revised	2018-10-31 14:34:31	2018-11-02 06:12:04
R2-1816590	Corrections to euCA	Nokia,	agreed	2018-10-31 14:34:32	2018-11-02 06:12:04
R2-1816591	Corrections to euCA	Nokia,	agreed	2018-10-31 14:34:33	2018-11-02 06:12:04
R2-1816592	Clarification on s-Measure for IDLE mode measurements	Nokia,	noted	2018-10-31 14:34:35	2018-11-02 06:12:04
R2-1816593	Clarification on s-Measure for IDLE mode measurements	Nokia,	revised	2018-10-31 14:34:35	2018-11-02 06:12:04
R2-1816594	RRC processing delay for BWP switching	Nokia,	not treated	2018-10-31 14:34:35	2018-11-02 06:12:04
R2-1816595	Introduction of processing delay requirements for RCCReconfiguration with BWP switching	Nokia,	not treated	2018-10-31 14:34:36	2018-11-02 06:12:04
R2-1816596	Draft LS to RAN4 on RRC processing delay for BWP switching	Nokia,	not treated	2018-10-31 14:34:37	2018-11-02 06:12:04
R2-1816597	Issue with NR-U Paging in Unlicensed Spectrum	Charter Communications, Inc	not treated	2018-10-31 14:47:12	2018-11-01 19:21:50
R2-1816598	Discussion on wideband operation for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 01:43:05
R2-1816599	Discussion on DRX for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 01:53:28
R2-1816600	Consideration on channel access priority class	Hua	not treated	2018-10-31 15:04:21	2018-11-02 01:53:28
R2-1816601	Transmission with configured grant for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 01:53:28
R2-1816602	Discussion on HARQ and PHR for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:01:20
R2-1816603	Discussion on SR for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:01:20
R2-1816604	Timers and counters for two-step RACH	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:01:20

R2-1816605	Consideration on 2-step RACH parameters and grant	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:16:28
R2-1816606	Consideration on UE ID for 2-step RACH	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:16:28
R2-1816607	Consideration on grant size for 2-step RACH	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:16:28
R2-1816608	Consideration on SI for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:16:28
R2-1816609	Consideration on paging for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:16:28
R2-1816610	Discussion on mobility in idle and inactive mode for NR-	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:16:28
R2-1816611	Discussion on mobility in connected mode for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:36:05
R2-1816612	Discussion on RLF for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:36:05
R2-1816613	Discussion on measurements for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:36:05
R2-1816614	NR-U with SUL	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:36:05
R2-1816615	IDC for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 02:36:21
R2-1816616	Four-step RACH procedure for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 03:08:31
R2-1816617	Two-step RACH procedure for NR-U	Hua	not treated	2018-10-31 15:04:21	2018-11-02 03:00:47
R2-1816618	Impact of LBT on counters and windows for 4-step	Hua	noted	2018-10-31 15:04:21	2018-11-02 03:00:47
R2-1816619	CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation	ZTE Corp	revised	2018-10-31 15:08:49	2018-11-01 22:23:46
R2-1816620	Correction for BL UEs and UEs in CE in RRC_CONNECTED	Ericsson	revised	2018-10-31 15:12:13	2018-11-02 04:33:37
R2-1816621	Corrections and clarifications for MO EDT	Ericsson	revised	2018-10-31 15:12:15	2018-11-02 04:33:37
R2-1816622	Corrections on falllback cases in EDT	Ericsson	revised	2018-10-31 15:12:16	2018-11-02 04:33:37
R2-1816623	Remaining MO EDT issues	Ericsson	revised	2018-10-31 15:12:17	2018-11-02 04:33:37
R2-1816624	Correction on UL data discard for EDT	Ericsson	not pursued	2018-10-31 15:12:19	2018-11-02 04:33:37
R2-1816625	Correction on UL data discard for EDT with PDCP-RRC interaction	Ericsson	not pursued	2018-10-31 15:12:20	2018-11-02 04:33:37
R2-1816626	Correction on UL data discard for EDT with PDCP-RRC interaction	Ericsson	not pursued	2018-10-31 15:12:21	2018-11-02 04:33:37
R2-1816627	Corrections on EDT	Ericsson	revised	2018-10-31 15:12:22	2018-11-02 04:33:37
R2-1816628	LS reply on successful completion of early data transmission when eNodeB decided not to have RRC	Ericsson	revised	2018-10-31 15:12:23	2018-11-02 04:33:37
R2-1816629	Reliable transport of user data in EDT	Ericsson	noted	2018-10-31 15:12:23	2018-11-02 04:33:37
R2-1816630	Draft LS on reliable transport of user data in CP-EDT	Ericsson	not treated	2018-10-31 15:12:23	2018-11-02 04:33:37
R2-1816631	Exclusion of 1.4 MHz system bandwidth for flexible starting PRB	Ericsson	revised	2018-10-31 15:12:23	2018-11-02 04:33:37
R2-1816632	Early activation of security	Ericsson,	noted	2018-10-31 15:12:23	2018-11-02 04:33:37
R2-1816633	Early activation of security	Ericsson	not treated	2018-10-31 15:12:23	2018-11-12 16:30:00
R2-1816634	Mobile-terminated early data transmission	Ericsson	not treated	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816635	General considerations in MT EDT	Ericsson	noted	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816636	Draft LS on Mobile-terminated Early Data Transmission	Ericsson	not treated	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816637	Scheduling enhancement	Ericsson	noted	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816638	MPDCCH performance improvements	Ericsson	noted	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816639	ETWS and CMAS in connected mode for LTE-M	Ericsson	not treated	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816640	Standalone enhancements for LTE-MTC	Ericsson	not treated	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816641	Relaxation of RRM measurements for UEs using WUS	Ericsson	postponed	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816642	DRAFT LS on RRM measurement relaxation for Cat-M UEs configured with WUS	Ericsson	not treated	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816643	Temporary SI densification	Ericsson	not treated	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816644	Transmission in preconfigured uplink resources	Ericsson	not treated	2018-10-31 15:12:24	2018-11-02 04:33:37
R2-1816645	Observed Concerns with CR Management	Sprin	noted	2018-10-31 15:26:36	2018-11-01 22:19:51
R2-1816646	Correction for rate matching	Hua	revised	2018-10-31 16:03:46	2018-11-02 03:13:37
R2-1816647	Corrections on n-TimingAdvanceOffset	Hua	not	2018-10-31 16:03:49	2018-11-02 03:18:04
R2-1816648	Corrections on PDCCH-ConfigCommon	Hua	reserved	2018-10-31 16:03:50	

R2-1816649	Remaining issues on SRS-config	Huawei, HiSil	not pursued	2018-10-31 16:03:50	2018-11-02 03:18:04
R2-1816650	Corrections on CrossCarrierScheduling	Hua	not treated	2018-10-31 16:03:51	2018-11-02 06:32:31
R2-1816651	Corrections on SSB power	Hua	revised	2018-10-31 16:03:52	2018-11-02 03:18:04
R2-1816652	Corrections on QCL-info	Hua	not treated	2018-10-31 16:03:53	2018-11-02 03:18:04
R2-1816653	Corrections on SearchSpace configuration	Hua	revised	2018-10-31 16:03:54	2018-11-02 03:18:04
R2-1816654	Correction on InitialDownlink and Uplink BWP	Hua	not	2018-10-31 16:03:55	2018-11-02 03:18:04
R2-1816655	Correction for PowerControl-related issues	Hua	withdrawn	2018-10-31 16:03:56	2018-11-02 03:18:04
R2-1816656	Correction for SRS-config	Hua	withdrawn	2018-10-31 16:03:56	2018-11-02 03:18:04
R2-1816657	Correction for TCI state in	Hua	revised	2018-10-31 16:03:57	2018-11-02 03:18:04
R2-1816658	Removal of restriction on RB removal and addition	NTT DOC	agreed	2018-10-31 16:04:00	2018-11-01 00:27:00
R2-1816659	Reply LS on RAN6 impact for Rel-16 NB-IoT enhancements related to Inter-RAT cell selection (R6-	RAN 6	noted	2018-10-31 16:04:59	2018-10-31 16:07:05
R2-1816660	Remaining issue on RB removal and addition	NTT	noted	2018-10-31 16:06:30	2018-11-02 04:35:37
R2-1816661	Revisit the reporting criteria limitation for SN in (NG)EN-DC	ZTE Corp	not treated	2018-10-31 16:07:12	2018-11-02 01:53:26
R2-1816662	CR for maxMeasIdentitiesSCG-NR	ZTE Corp	not pursued	2018-10-31 16:07:12	2018-11-02 01:53:26
R2-1816663	Discussion on SSB and PCI	ZTE Corp	not treated	2018-10-31 16:07:12	2018-11-02 01:53:26
R2-1816664	CR for security handling upon handover to eLTE in 36.331	ZTE Corp	agreed	2018-10-31 16:07:12	2018-11-02 01:53:26
R2-1816665	Clarification on measObjectNR of SFTD between PCell and PSCell	ZTE Corp	agreed	2018-10-31 16:07:13	2018-11-02 01:53:26
R2-1816666	CR to 38331 on ul-DataSplitThreshold for SRB	ZTE Corp	agreed	2018-10-31 16:07:14	2018-11-02 01:53:26
R2-1816667	CR for introducing PSCell frequency in CG-Config	ZTE Corp	agreed	2018-10-31 16:07:16	2018-11-02 01:53:26
R2-1816668	CR for security handling for eLTE in 38.331	ZTE Corporati	agreed	2018-10-31 16:07:17	2018-11-02 01:53:26
R2-1816669	CR for ServingCellConfigCommon in 38.331	ZTE Corp	revised	2018-10-31 16:07:19	2018-11-02 01:53:26
R2-1816670	CR for the optional configuration of subbandSize	ZTE Corp	revised	2018-10-31 16:07:21	2018-11-02 01:53:26
R2-1816671	Bandwidth of initial BWP in Option2 operation	ZTE Corp	noted	2018-10-31 16:07:22	2018-11-02 01:53:26
R2-1816672	CR to 38.331 on TCI-State	ZTE Corp	not treated	2018-10-31 16:07:22	2018-11-02 01:53:26
R2-1816673	Correction on shortMAC-I description in 38.331	ZTE Corp	agreed	2018-10-31 16:07:22	2018-11-02 01:53:26
R2-1816674	CR for the usage of ra-Prioritization in RACH-ConfigDedicated	ZTE Corp	not pursued	2018-10-31 16:07:23	2018-11-02 01:53:26
R2-1816675	Further discussion on SMTC configuration in MeasObjectNR	ZTE Corp	noted	2018-10-31 16:07:24	2018-11-02 01:53:26
R2-1816676	CR for SMTC configuration in MeasObjectNR	ZTE Corp	not treated	2018-10-31 16:07:24	2018-11-02 01:53:26
R2-1816677	Split SRB UL configuration	Hua	agreed	2018-10-31 16:10:13	2018-11-01 21:45:37
R2-1816678	CR on PDCCH monitoring occasions for paging	ZTE Corp	agreed	2018-10-31 16:40:43	2018-11-01 22:23:46
R2-1816679	CR on SI request procedure in TS38.331	ZTE Corp	agreed	2018-10-31 16:42:36	2018-11-01 22:23:46
R2-1816680	Clarification on LCH-to-cell restriction	Apple, ASUSTeK, CATT, China Telecom,	revised	2018-10-31 16:54:09	2018-11-02 03:08:13

R2-1816681	BFR-CFRA dedicated RACH resource handling upon TAT expiry	Apple, CATT, Intel	not pursued	2018-10-31 16:54:11	2018-11-02 03:08:13
R2-1816682	BFR-CFRA dedicated RACH resource handling upon TAT expiry	Apple, CATT, Intel	not pursued	2018-10-31 16:54:12	2018-11-02 03:08:13
R2-1816683	Multiple configured grants for NR-U	Medi	not treated	2018-10-31 17:16:21	2018-11-01 12:13:00
R2-1816684	Handling systematic LBT failures in Random Access	Medi	not treated	2018-10-31 17:18:00	2018-11-01 12:13:00
R2-1816685	2-step RACH msgA and msgB contents	Medi	not treated	2018-10-31 17:19:03	2018-11-01 12:13:00
R2-1816686	LBT impact on SR transmissions	Medi	not treated	2018-10-31 17:20:32	2018-11-01 12:13:00
R2-1816687	2-step RACH msgB addressing and HARQ	Medi	not treated	2018-10-31 17:21:39	2018-11-01 12:13:00
R2-1816688	Random access backoff and timers in NR-U	Medi	not treated	2018-10-31 17:22:48	2018-11-01 12:13:00
R2-1816689	Ethernet Header Compression	Medi	not treated	2018-10-31 17:24:25	2018-11-01 12:13:00
R2-1816690	Accurate reference time distribution	Medi	not treated	2018-10-31 17:26:21	2018-11-01 12:13:00
R2-1816691	Discussion of conditional handover	Intel	not treated	2018-10-31 17:36:31	2018-11-02 05:25:38
R2-1816692	Performance evaluation of conditional handover	Intel	not treated	2018-10-31 17:36:31	2018-11-02 05:25:38
R2-1816693	Performance evaluation for simultaneous connectivity	Intel Corporation	noted	2018-10-31 17:36:31	2018-11-02 05:25:38
R2-1816694	Protocol stack comparison between split bearer and non-split bearer option for simultaneous connectivity	Intel Corp	not treated	2018-10-31 17:36:31	2018-11-02 05:25:38
R2-1816695	Detail for non-split bearer option for simultaneous connectivity	Intel Corp	not treated	2018-10-31 17:36:31	2018-11-02 05:25:38
R2-1816696	Random Access procedure in NR-u	Intel	not treated	2018-10-31 17:36:31	2018-11-02 02:46:30
R2-1816697	Further consideration of 2-Step RACH	Intel	not treated	2018-10-31 17:36:31	2018-11-02 02:46:30
R2-1816698	Consideration of RLM/RLF in NR-u	Intel	not treated	2018-10-31 17:36:31	2018-11-02 02:46:30
R2-1816699	Neighbour cell detection for handover and cell	Intel	not treated	2018-10-31 17:36:31	2018-11-02 02:46:30
R2-1816700	SI scheduling in NR-u	Intel	noted	2018-10-31 17:36:32	2018-11-02 02:46:30
R2-1816701	On overall sidelink design principles for NR V2X	Intel	not treated	2018-10-31 17:36:32	2018-11-02 02:46:30
R2-1816702	On RAT selection for NR V2X	Intel	not treated	2018-10-31 17:36:32	2018-11-02 02:46:30
R2-1816703	QoS considerations over SL for NR V2X	Intel	not treated	2018-10-31 17:36:32	2018-11-02 02:46:30
R2-1816704	Sidelink resource allocation for unicast vs broadcast	Intel	not treated	2018-10-31 17:36:32	2018-11-02 02:46:30
R2-1816705	Summary of [103bis#39][NR/V2X] e2e Uu delay	Intel	agreed	2018-10-31 17:36:32	2018-11-08 05:10:19
R2-1816706	Paging enhancement for NR-U	Intel	noted	2018-10-31 17:36:32	2018-11-02 05:32:27
R2-1816707	Configured Grant enhancement for NR-U	Intel	not treated	2018-10-31 17:36:32	2018-11-02 05:32:27
R2-1816708	Scheduling Request enhancement for NR-U	Intel	not treated	2018-10-31 17:36:32	2018-11-02 05:32:57
R2-1816709	Earlier Termination of the On-Demand SI Request Procedure	PANASO	not treated	2018-10-31 17:42:40	2018-11-01 18:09:58
R2-1816710	E2E flow control based on ARQ mechanism	PANASO	not treated	2018-10-31 17:45:49	2018-11-01 18:09:58
R2-1816711	The impact of the inaccurate measurement due to LBT failure	PANASO	not treated	2018-10-31 17:48:46	2018-11-01 18:09:58
R2-1816712	Introduction of speed state scale factors for intra-frequency cell reselection in SIB2	ZTE Corp	not pursued	2018-10-31 17:59:38	2018-11-01 22:23:46
R2-1816713	CR to the field descriptions of System Information	ZTE Corp	revised	2018-10-31 17:59:41	2018-11-01 22:23:46
R2-1816714	Consideration on introducing MICO mode	ZTE Corp	noted	2018-10-31 17:59:42	2018-11-01 22:23:46
R2-1816715	CR on introducing MICO mode in TS38.304	ZTE Corp	not treated	2018-10-31 17:59:42	2018-11-01 22:23:46
R2-1816716	CR on UE behavior if emergency call is not supported in the current cell	ZTE Corp	revised	2018-10-31 17:59:42	2018-11-01 22:23:46
R2-1816717	Challenge on the paging performance in NTN	ZTE Corp	noted	2018-10-31 17:59:43	2018-11-01 22:23:46
R2-1816718	Miscellaneous corrections to RRC establishment procedure	ZTE Corp	not pursued	2018-10-31 17:59:43	2018-11-01 22:23:46
R2-1816719	Reestablishment for signalling-only connection	ZTE Corp	not treated	2018-10-31 17:59:44	2018-11-01 22:23:46

R2-1816720	CR to 38.306 for PDCP CA duplication for SRB	ZTE Corp	revised	2018-10-31 17:59:44	2018-11-01 22:23:46
R2-1816721	Draft Reply LS on redundant transmission for URLLC	Medi	not treated	2018-10-31 18:03:37	2018-11-01 19:49:06
R2-1816722	Benefits of periodicity and offset awareness for scheduling of TSN traffic	Qual com	not treated	2018-10-31 18:12:57	2018-11-02 01:34:44
R2-1816723	CAPC for data transmission in NR-U	Medi	not treated	2018-10-31 18:32:02	2018-11-01 19:49:06
R2-1816724	Clarification on SRB3 release	Intel	agreed	2018-10-31 18:32:56	2018-11-02 05:39:56
R2-1816725	Avoiding security risk for RLC UM bearers during termination point change	Intel Corp	agreed	2018-10-31 18:32:57	2018-11-02 05:39:56
R2-1816726	Security for RRC connection release	Intel Corp	agreed	2018-10-31 18:32:58	2018-11-02 05:39:56
R2-1816727	TS36.331 CR on [103bis#43][LTE/eLTE] Capture NR agreements	Intel Corp	revised	2018-10-31 18:32:59	2018-11-02 05:39:56
R2-1816728	TS36.304 CR on [103bis#43][LTE/eLTE] Capture NR agreements	Intel Corp	agreed	2018-10-31 18:33:00	2018-11-02 05:39:56
R2-1816729	Miscellaneous corrections on E-UTRA connected to 5GCN	Intel Corp	revised	2018-10-31 18:33:01	2018-11-02 05:39:56
R2-1816730	Open issues on E-UTRA connected to 5GC for INACTIVE	Intel Corp	agreed	2018-10-31 18:33:02	2018-11-02 05:39:56
R2-1816731	Open issues on E-UTRA connected to 5GC for UAC	Intel Corp	agreed	2018-10-31 18:33:03	2018-11-02 05:39:55
R2-1816732	RIL I118 on release case to upper layers for CN paging for a UE in RRC_INACTIVE	Intel Corp	agreed	2018-10-31 18:33:05	2018-11-02 05:39:55
R2-1816733	Handling on security keys for resume procedure (I774)	Intel Corp	agreed	2018-10-31 18:33:06	2018-11-02 05:39:55
R2-1816734	Handling on simultaneously triggered NAS&AS events	Intel	agreed	2018-10-31 18:33:07	2018-11-02 05:39:55
R2-1816735	RIL I556, I557, I558 on RB handling when resuming	Intel	revised	2018-10-31 18:33:08	2018-11-02 05:39:55
R2-1816736	TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corp	revised	2018-10-31 18:33:09	2018-11-02 05:39:55
R2-1816737	TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corp	revised	2018-10-31 18:33:10	2018-11-02 05:39:55
R2-1816738	SFN offset for OTDOA	Intel Corp	revised	2018-10-31 18:33:11	2018-11-02 05:39:55
R2-1816739	Corrections on reestablishment and security	Intel	agreed	2018-10-31 18:33:12	2018-11-02 05:39:55
R2-1816740	Miscellaneous corrections on SI procedures	Intel	agreed	2018-10-31 18:33:14	2018-11-02 08:08:08
R2-1816741	SI reception in RRC Connected mode (RIL#II611)	Intel	agreed	2018-10-31 18:33:15	2018-11-02 08:08:08
R2-1816742	Suspend and resume of security	Intel	agreed	2018-10-31 18:33:16	2018-11-02 05:39:55
R2-1816743	MO configuration with SSB SCS for a give SSB	Intel	revised	2018-10-31 18:33:17	2018-11-02 05:39:55
R2-1816744	Correction on CBRA fallback during RACH	Intel	not treated	2018-10-31 18:33:18	2018-11-02 05:39:55
R2-1816745	Barring alleviation for emergency service	Intel	revised	2018-10-31 18:33:19	2018-11-02 05:39:55
R2-1816746	MO configuration with SSB SCS for a given SSB	Intel	agreed	2018-10-31 18:33:20	2018-11-02 05:39:55
R2-1816747	Ambiguity during transmission of RRCReestablishmentComplete	Intel Corp	not treated	2018-10-31 18:33:22	2018-11-02 05:39:56
R2-1816748	[RIL: I873] draft CR for Inter-node coordination for ANR for EN-DC	Intel Corp	not treated	2018-10-31 18:33:23	2018-11-02 05:39:56
R2-1816749	Corrections to first reconfiguration after re-	Intel	not treated	2018-10-31 18:33:24	2018-11-02 05:39:56
R2-1816750	Security risk from multiple termination point changes of RLC UM bearers	Intel Corp	noted	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816751	Report of [103bis#25][NR] Remaining security issues for MR-DC	Intel Corp	noted	2018-10-31 18:49:26	2018-11-08 22:52:36
R2-1816752	Security updates for MR-DC	Intel	reserved	2018-10-31 18:49:26	
R2-1816753	[103bis#43][LTE/eLTE] Capture NR agreements (Intel)	Intel Corp	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816754	Summary on UE capabilities for mobility and E-UTRA/5GC	Intel Corp	noted	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816755	RAN2 scope and work plan on NR positioning SID	Intel	noted	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816756	Use case for RAN as client	Intel	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816757	Summary on NR positioning discussion in RAN1	Intel	noted	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816758	Summary on NR positioning discussion in SA2	Intel	revised	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816759	Protocol design for NR positioning in Rel-16	Intel	noted	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816760	Draft LS on Rel-16 NR positioning	Intel	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816761	SCG failure reporting of NR configured CSI-RS measurement (for NR-NR DC late drop)	Intel Corp	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816762	RRC processing delay in NR	Intel	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816763	Determination of PH value type	Intel	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816764	Reference timing provisioning for TSN	Intel	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56

R2-1816765	Ethernet header compression	Intel	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816766	Ambiguity during transmission of RRCReestablishmentComplete	Intel Corp	noted	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816767	ANR network coordination	Intel	not treated	2018-10-31 18:49:26	2018-11-02 05:39:56
R2-1816768	Paging For NR-U	Conv	not treated	2018-10-31 18:49:54	2018-11-02 02:13:07
R2-1816769	NR-U LBT Impact on Preamble Transmission	Conv	not treated	2018-10-31 18:54:02	2018-11-02 02:13:07
R2-1816770	QoS Management for NR V2X	Fraunhofe	not treated	2018-10-31 19:06:54	2018-11-01 16:30:54
R2-1816771	On NR V2X Resource Allocation	Fraunhofe	not treated	2018-10-31 19:11:28	2018-11-01 16:33:30
R2-1816772	NR V2X support for Unicast and Groupcast Communication	Fraunhofe	not treated	2018-10-31 19:14:34	2018-11-01 16:34:58
R2-1816773	Considerations on PCI Confusion Issue	Charter Communications, Inc	not treated	2018-10-31 19:34:08	2018-11-01 19:20:22
R2-1816774	Procedures for full config at RRCResume	Erics	agreed	2018-10-31 20:42:51	2018-11-02 02:42:07
R2-1816775	Text Proposal for Scheduling Request in NR-U	InterDigital, Qual	noted	2018-10-31 20:43:04	2018-11-01 23:43:44
R2-1816776	Random Access for NR-U	Inter	not treated	2018-10-31 20:43:04	2018-11-01 23:43:44
R2-1816777	TP for Paging in NR-U	Inter	not treated	2018-10-31 20:43:04	2018-11-01 23:43:44
R2-1816778	Scheduling aspects of UL intra-UE prioritization	Inter	not treated	2018-10-31 20:43:04	2018-11-01 23:43:44
R2-1816779	Corrections on CFRA BFR termination	Inter	withdrawn	2018-10-31 20:43:04	
R2-1816780	TP on DRX for NR-U	Inter	not treated	2018-10-31 20:44:48	2018-11-02 00:06:33
R2-1816781	TP on RLM for NR-U	Inter	not treated	2018-10-31 20:44:48	2018-11-02 00:06:33
R2-1816782	TP on Measurements for NR-U	Inter	not treated	2018-10-31 20:44:48	2018-11-02 00:06:33
R2-1816783	Intra-UE prioritization for mixed traffic	Inter	not treated	2018-10-31 20:44:48	2018-11-02 00:06:33
R2-1816784	Intra-UE prioritization for inter-cell transmissions	Inter	not treated	2018-10-31 20:44:48	2018-11-02 00:06:33
R2-1816785	Reducing User Data Interruption during Handover for LTE	Inter Digit	not treated	2018-10-31 20:44:48	2018-11-02 00:06:33
R2-1816786	Conditional Handover for LTE mobility robustness	Inter	not treated	2018-10-31 20:44:48	2018-11-02 00:06:33
R2-1816787	Support for Unicast and Groupcast in NR V2X	Inter Digit	not treated	2018-10-31 20:45:16	2018-11-02 03:04:04
R2-1816788	Resource Allocation Features to Support NR V2X Requirements	Inter Digit	not treated	2018-10-31 20:45:16	2018-11-02 03:04:34
R2-1816789	Resource Allocation in Support of Unicast and	Inter	not treated	2018-10-31 20:45:16	2018-11-02 03:05:08
R2-1816790	QoS Management for NR V2X	Inter	not treated	2018-10-31 20:45:16	2018-11-02 03:05:31
R2-1816791	RAT Selection for NR V2X	Inter	not treated	2018-10-31 20:45:16	2018-11-02 03:05:55
R2-1816792	Control Plane Aspects for Broadcast NR V2X	Inter Digit	not treated	2018-10-31 20:45:16	2018-11-02 03:06:20
R2-1816793	Uu Enhancements for NR V2X	Inter	not treated	2018-10-31 20:45:16	2018-11-02 03:06:46
R2-1816794	Corrections for security configurations during setup of	Erics	not treated	2018-10-31 20:46:23	2018-11-02 02:42:07
R2-1816795	Corrections for security configurations during setup of	Erics	revised	2018-10-31 20:46:23	2018-11-02 02:42:07
R2-1816796	Corrections regarding SpCell	Erics	not	2018-10-31 20:46:25	2018-11-02 02:42:07
R2-1816797	Clarification of PDCP-Config field descriptions	Erics	agreed	2018-10-31 20:46:26	2018-11-02 02:42:07
R2-1816798	Correction of activation of Scells	Erics	revised	2018-10-31 20:46:27	2018-11-02 02:42:07
R2-1816799	Discussion on MR-DC release	Ericsson	not treated	2018-10-31 20:46:28	2018-11-02 02:42:07
R2-1816800	Release of secondary cell group in NE-DC (36.331)	Erics	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816801	Release of secondary cell group in NR-DC and NE-DC (38.331)	Ericsson	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816802	Configuration of SCG DRBs and split bearers in NE-	Erics	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816803	Configuration of SCG DRBs and split DRBs in NE-DC (36.331)	Ericsson	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816804	Configuration of split SRBs in NE-DC (36.331)	Erics	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816805	Configuration of split bearers in NR-DC (38.331)	Erics	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43

R2-1816806	Release of bearers at MR-DC during fullConfig (38.331)	Ericsson	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816807	Configuration of SCG during RRC Resume in NE-DC and NR-DC (38.331)	Ericsson	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816808	Security interworking between EPC and 5GC	Erics	not treated	2018-10-31 20:46:28	2018-11-02 02:41:43
R2-1816809	[DRAFT] Reply LS to SA3 on LS on Dual Connectivity	Erics	not treated	2018-10-31 20:46:29	2018-11-02 02:41:43
R2-1816810	Derivation of secondary key in MR-DC (38.331)	Erics	not treated	2018-10-31 20:46:29	2018-11-02 02:41:43
R2-1816811	Correction regarding key deletion at state transition to RRC IDLE	Ericsson	revised	2018-10-31 20:46:29	2018-11-02 02:41:43
R2-1816812	Clarification of UE behaviour when frequencyBandList is absent in SIB4	MediaTek	revised	2018-10-31 21:25:48	2018-11-02 02:55:24
R2-1816813	Handling of missing fields in SIB1	Medi	revised	2018-10-31 21:28:16	2018-11-02 02:55:24
R2-1816814	Clarification that PWS SIBs are always broadcast	Medi	not	2018-10-31 21:30:22	2018-11-02 02:55:24
R2-1816815	Protocol selection between UE and LMF	Medi	not treated	2018-10-31 21:33:11	2018-11-02 02:55:24
R2-1816816	Prioritisation of positioning methods for NR Rel-16	Medi	not treated	2018-10-31 21:35:12	2018-11-02 02:55:24
R2-1816817	Parameters for overheating indication	Medi	not treated	2018-10-31 21:36:46	2018-11-02 02:55:24
R2-1816818	Zone-based resource allocation for NR V2X	Medi	not treated	2018-10-31 21:38:42	2018-11-02 02:55:24
R2-1816819	Delta signalling for UE capability indication	MediaTek	not treated	2018-10-31 21:40:30	2018-11-02 02:55:24
R2-1816820	UE-assisted resource allocation for NR V2X	Medi	not treated	2018-10-31 21:41:38	2018-11-02 02:55:24
R2-1816821	Summary of email discussion [103bis#12][NR/UE cap SI] UE cap ID signalling options (MediaTek)	MediaTek	not treated	2018-10-31 21:43:36	2018-11-02 02:55:24
R2-1816822	DRAFT LS on Security protection for UE capability ID	MediaTek	not treated	2018-10-31 21:45:33	2018-11-02 02:55:24
R2-1816823	Text proposal based on outcome of email discussino [103bis#12][NR/UE cap SI] UE cap ID signalling options (MediaTek)	MediaTek Inc.	not treated	2018-10-31 21:47:38	2018-11-02 02:55:24
R2-1816824	Analysis of UE capability size	Medi	not treated	2018-10-31 21:48:47	2018-11-02 02:55:24
R2-1816825	UL power control information for PUCCH format 4/5 in SIB	Qualcom	agreed	2018-10-31 21:49:39	2018-11-01 22:42:09
R2-1816826	UL power control information for PUCCH format 4/5 in SIB	Qualcom	agreed	2018-10-31 21:49:40	2018-11-01 22:42:09
R2-1816827	UL power control information for PUCCH format 4/5 in SIB	Qualcom	agreed	2018-10-31 21:49:40	2018-11-01 22:42:09
R2-1816828	considerations on BWP for NR-U	ZTE	not treated	2018-10-31 22:46:43	2018-10-31 23:20:39
R2-1816829	Considerations on 4-step RACH procedure for NR-U	ZTE	not treated	2018-10-31 22:49:45	2018-11-02 04:46:29
R2-1816830	Considerations on configured grant	ZTE	not treated	2018-10-31 22:51:55	2018-11-02 04:47:38
R2-1816831	LBT outcome indication	ZTE	not treated	2018-10-31 22:55:04	2018-10-31 23:22:10
R2-1816832	Considerations on RAR window size for NR-U	ZTE	not treated	2018-10-31 22:57:25	2018-11-02 04:46:58
R2-1816833	Consideration on SR enhancement for NR-U	ZTE	not treated	2018-10-31 22:59:24	2018-11-02 04:47:19
R2-1816834	The impact of non-best cell on cell reselection for NR-	ZTE	not treated	2018-10-31 23:01:38	2018-10-31 23:25:42
R2-1816835	Enhancements for SI transmission on NR-U	ZTE	noted	2018-10-31 23:03:24	2018-10-31 23:29:28
R2-1816836	Discussion on RLM RLF for NR-U	ZTE	not treated	2018-10-31 23:05:33	2018-11-02 04:48:23
R2-1816837	Discussion on paging on NR-U	ZTE	not treated	2018-10-31 23:08:39	2018-10-31 23:31:10
R2-1816838	Consideration on SRB enhancement for NR-U	ZTE	not treated	2018-10-31 23:10:52	2018-10-31 23:32:54
R2-1816839	Measurement in Connected Mode for NR-U	ZTE	not treated	2018-10-31 23:12:20	2018-11-02 04:48:10
R2-1816840	Considerations on PDCP duplication and data split for	ZTE	not treated	2018-10-31 23:15:45	2018-11-02 05:38:48
R2-1816841	Description of RLM aspects	ZTE Corporati	revised	2018-10-31 23:18:52	2018-11-02 03:38:59
R2-1816842	Correction for SN terminated MCG bearer	ZTE Corporati	agreed	2018-10-31 23:18:53	2018-11-02 03:38:59
R2-1816843	Agreements for MR-DC	ZTE Corp	revised	2018-10-31 23:18:54	2018-11-02 03:38:59
R2-1816844	UP Security indication for split PDU session	ZTE Corp	not treated	2018-10-31 23:18:55	2018-11-02 03:38:59
R2-1816845	FR2 Impacts to power sharing	ZTE Corp	not treated	2018-10-31 23:18:55	2018-11-02 03:38:59
R2-1816846	Bearer type change for MR-DC with 5GC	ZTE Corp	revised	2018-10-31 23:18:55	2018-11-02 06:38:05
R2-1816847	RAN assisted codec adaptation in MR-DC	ZTE Corp	not treated	2018-10-31 23:18:56	2018-11-02 03:38:59
R2-1816848	Remaining issues on RRC_INACTIVE for MR-DC	ZTE Corp	not treated	2018-10-31 23:18:56	2018-11-02 03:38:59

R2-1816849	Ignore NCC and IP check failure handling on reception of resume message	ZTE Corp	revised	2018-10-31 23:18:56	2018-11-02 03:38:59
R2-1816850	CORESET#0 configuration when SIB1 is not broadcast	ZTE Corp	revised	2018-10-31 23:18:57	2018-11-02 03:38:59
R2-1816851	Discussion on cell level rate matching parameters	ZTE Corp	noted	2018-10-31 23:18:58	2018-11-02 03:38:59
R2-1816852	Introduction of cell level rate matching parameters in ServingCellConfig	ZTE Corp orati	revised	2018-10-31 23:18:58	2018-11-02 03:38:59
R2-1816853	Correction to rate matching parameters	ZTE Corp orati	not treated	2018-10-31 23:18:59	2018-11-02 03:38:59
R2-1816854	LS on L1 parameters	ZTE	not treated	2018-10-31 23:19:00	2018-11-02 03:38:59
R2-1816855	Correction to ControlResourceSetZero	ZTE Corp	revised	2018-10-31 23:19:00	2018-11-02 03:38:59
R2-1816856	Error handling in resume procedure	ZTE Corp	not treated	2018-10-31 23:19:01	2018-11-02 03:38:59
R2-1816857	Discussion on RRC UE processing time	ZTE Corp	not treated	2018-10-31 23:19:02	2018-11-02 03:38:59
R2-1816858	Change of logical channel ID via reconfiguration of RLC bearer	ZTE Corp	not treated	2018-10-31 23:19:02	2018-11-02 03:38:59
R2-1816859	General requirements of multiple connectivity based mobility	ZTE Corp	not treated	2018-10-31 23:19:03	2018-11-02 03:38:59
R2-1816860	Discussion on non-split bearer based mobility	ZTE Corp	not treated	2018-10-31 23:19:03	2018-11-02 03:38:59
R2-1816861	Discussion on split bearer based mobility	ZTE Corp	not treated	2018-10-31 23:19:03	2018-11-02 03:38:59
R2-1816862	Correction to additional SIB1 in eFeNB-IoT	ZTE Corp	revised	2018-11-01 01:12:46	2018-11-02 07:32:56
R2-1816863	Clarification on Counter check procedure	Sam sung	agreed	2018-11-01 01:17:05	2018-11-01 06:16:43
R2-1816864	Small correction to paging with wake up signal	ZTE Corp orati on,	agreed	2018-11-01 01:21:59	2018-11-02 06:59:17
R2-1816865	Correction on PUCCH format for Massive CA	Hua	not	2018-11-01 01:29:25	2018-11-02 04:29:10
R2-1816866	Correction on PUCCH format for Massive CA	Hua	not	2018-11-01 01:29:27	2018-11-02 04:29:10
R2-1816867	Correction on PUCCH format for Massive CA	Hua	not	2018-11-01 01:29:28	2018-11-02 04:29:10
R2-1816868	Correction on the power control value for PUCCH format 4 and format 5	Hua wei,	not pursued	2018-11-01 01:29:29	2018-11-02 04:29:10
R2-1816869	Correction on the power control value for PUCCH format 4 and format 5	Hua wei,	not treated	2018-11-01 01:29:30	2018-11-02 04:29:10
R2-1816870	Correction on the power control value for PUCCH format 4 and format 5	Hua wei,	not treated	2018-11-01 01:29:31	2018-11-02 04:29:10
R2-1816871	Time Synchronization in air-interface for IIoT	CAT	not treated	2018-11-01 01:37:46	2018-11-02 06:27:01
R2-1816872	TR 38.874 v060	Qual com	revised	2018-11-01 01:40:54	2018-11-01 20:56:13
R2-1816873	Email discussion [103bis#31][NR - IAB] Adaptation layer in MT	Qual com	agreed	2018-11-01 01:44:03	2018-11-01 20:56:13
R2-1816874	Email discussion [103bis#32][NR - IAB] Unified Design	Qual com	agreed	2018-11-01 01:45:40	2018-11-01 20:56:13
R2-1816875	Clarification on the ciphering of UDC header	Sam sung	postponed	2018-11-01 01:46:08	2018-11-01 06:16:43
R2-1816876	PDCP suspend for eLTE	Sam sung	not pursued	2018-11-01 01:58:26	2018-11-01 06:16:43
R2-1816877	Ethernet header compression	Sam sung	not treated	2018-11-01 02:08:04	2018-11-01 06:16:43
R2-1816878	Avoid unnecessary RNAU when barring is alleviated	SHA	not treated	2018-11-01 02:12:02	2018-11-01 07:51:31
R2-1816879	Extension of DRX ACTIVE time	SHA	not treated	2018-11-01 02:13:48	2018-11-01 07:51:31
R2-1816880	Small correction to pos-schedulingInfoList in SIB1-BR (RIL Z107)	ZTE Corp	agreed	2018-11-01 02:14:16	2018-11-02 07:44:51
R2-1816881	Text proposal for FFS resolution	KDD	revised	2018-11-01 02:16:04	2018-11-02 01:10:35
R2-1816882	UE configuration on re-establishment procedure	Medi	agreed	2018-11-01 02:16:46	2018-11-02 05:06:51
R2-1816883	CR to TS 38.321 Extension of DRX ACTIVE time	SHA	not treated	2018-11-01 02:19:10	2018-11-01 07:51:31
R2-1816884	Options comparison for MT EDT	ZTE Corp	not treated	2018-11-01 02:19:35	2018-11-02 04:51:25

R2-1816885	Unified design and QoS Handling for IAB	CAT	not treated	2018-11-01 02:22:36	2018-11-02 06:21:38
R2-1816886	RSRP result in SFTD measurement report	Medi	agreed	2018-11-01 02:24:16	2018-11-02 05:06:51
R2-1816887	RLC ARQ comparison for IAB	CAT	not treated	2018-11-01 02:25:09	2018-11-02 06:21:38
R2-1816888	Consideration of flow control	CAT	not treated	2018-11-01 02:26:12	2018-11-02 06:21:38
R2-1816889	Mode 2 resource allocation	CAT	not treated	2018-11-01 02:29:18	2018-11-02 06:21:38
R2-1816890	SIB size limitation [M201]	Medi	agreed	2018-11-01 02:29:22	2018-11-02 05:06:51
R2-1816891	NR sidelink CP protocol stack	CAT	not treated	2018-11-01 02:30:23	2018-11-02 06:21:38
R2-1816892	NR sidelink UP protocol stack and functions	CAT	not treated	2018-11-01 02:31:21	2018-11-02 06:21:38
R2-1816893	Correction on SRS-TPC-CommandConfig	Medi	agreed	2018-11-01 02:31:30	2018-11-02 05:06:51
R2-1816894	Resource Allocation in case of Cross-RAT Control	CAT	not treated	2018-11-01 02:32:03	2018-11-02 06:21:38
R2-1816895	Scenarios of Mode 1 for sidelink unicast/groupcast	CAT	not treated	2018-11-01 02:34:46	2018-11-02 06:21:38
R2-1816896	MAC PDU format in PC5	CAT	not treated	2018-11-01 02:36:17	2018-11-02 06:21:38
R2-1816897	HARQ Procedure for Mode 1	CAT	not treated	2018-11-01 02:37:09	2018-11-02 06:21:38
R2-1816898	Discovery Procedure and Connection Setup Procedure in NR Sidelink	CAT	not treated	2018-11-01 02:37:54	2018-11-02 06:21:38
R2-1816899	QoS Management for NR V2X	CAT	not treated	2018-11-01 02:38:40	2018-11-02 06:21:38
R2-1816900	Clarification on RRC state transition	Google	agreed	2018-11-01 02:40:31	2018-11-01 02:50:48
R2-1816901	Correction on system information blocks acquisition	Google	agreed	2018-11-01 02:42:26	2018-11-01 02:51:31
R2-1816902	CR to 38.331 on PUCCH-MaxCodeRate in PUCCH-Config	Qualcom	not pursued	2018-11-01 02:44:26	2018-11-02 03:22:29
R2-1816903	Clarification on csi-RS-ConfigNZP-EMIMO	Medi	agreed	2018-11-01 02:46:29	2018-11-02 05:06:51
R2-1816904	Clarification on csi-RS-ConfigNZP-EMIMO	Medi	agreed	2018-11-01 02:50:15	2018-11-02 05:06:51
R2-1816905	NR RRC Processing Time	Medi	not treated	2018-11-01 02:56:22	2018-11-02 05:06:51
R2-1816906	NR RRC Processing Time	Medi	revised	2018-11-01 02:59:57	2018-11-02 05:06:51
R2-1816907	Full configuration for inter-RAT handover	Medi	revised	2018-11-01 03:07:40	2018-11-02 05:06:51
R2-1816908	bwp-InactivityTimer when PDCCH indicating BWP switching is received	OPPO, Hua	agreed	2018-11-01 03:12:08	2018-11-02 03:47:06
R2-1816909	Reset RLF timer and counter while configuration	Medi	not	2018-11-01 03:13:28	2018-11-02 05:06:51
R2-1816910	RRC triggered BWP switching while RACH is ongoing	OPPO,	revised	2018-11-01 03:14:04	2018-11-02 03:47:06
R2-1816911	SRB1 re-establishment in RRC suspend/resume	Medi	not	2018-11-01 03:17:27	2018-11-02 05:06:51
R2-1816912	Correction on UE security context	Goog	not	2018-11-01 03:18:15	2018-11-01 03:21:57
R2-1816913	Frequency band indication in MeasObjectNR	Medi	withdrawn	2018-11-01 03:22:27	
R2-1816914	Frequency band indication in MeasObjectNR	Medi	revised	2018-11-01 03:26:38	2018-11-02 05:06:52
R2-1816915	Correction on the measurement gaps for dense PRS	Huawei, HiSil	agreed	2018-11-01 03:27:01	2018-11-02 04:22:00
R2-1816916	Missing UE capability introduction for efeMTC	Hua	agreed	2018-11-01 03:27:02	2018-11-02 04:22:00
R2-1816917	Minor corrections to services provided by physical layer	Huawei,	agreed	2018-11-01 03:27:03	2018-11-02 04:22:00
R2-1816918	Quality report in Msg3	Hua	noted	2018-11-01 03:27:04	2018-11-02 04:22:00
R2-1816919	MPDCCH performance improvement using CRS	Huawei,	noted	2018-11-01 03:27:04	2018-11-02 04:22:00
R2-1816920	CE mode A and B improvement for non-BL UEs	Hua	not treated	2018-11-01 03:27:04	2018-11-02 04:22:00
R2-1816921	Draft LS on the ETWS/CMAS notification in connected	Hua	not treated	2018-11-01 03:27:04	2018-11-02 04:22:00
R2-1816922	Use of LTE Control Channel Region for DL	Hua	not treated	2018-11-01 03:27:04	2018-11-02 04:22:00
R2-1816923	Correction on FeLAA in TS 36.321	Hua	agreed	2018-11-01 03:32:41	2018-11-01 03:36:43
R2-1816924	Correction on FeLAA in TS 36.331	Hua	agreed	2018-11-01 03:32:42	2018-11-01 03:36:43
R2-1816925	Measurement related actions upon re-establishment	Medi	not treated	2018-11-01 03:33:41	2018-11-02 05:06:52
R2-1816926	Control plane consideration for DC-based handover	OPPO	not treated	2018-11-01 03:44:44	2018-11-02 06:34:10
R2-1816927	Control plane consideration for enhanced MBB based handover	OPPO	not treated	2018-11-01 03:44:44	2018-11-02 06:34:10
R2-1816928	User plane consideration for DC-based handover	OPPO	not treated	2018-11-01 03:44:44	2018-11-02 06:34:10
R2-1816929	User plane consideration for enhanced MBB based handover	OPPO	not treated	2018-11-01 03:44:44	2018-11-02 06:34:10
R2-1816930	Comparison of DC-based and eMBB-based handover	OPPO	not treated	2018-11-01 03:44:44	2018-11-02 06:34:10
R2-1816931	Discussion on the conditional handover	OPP	not treated	2018-11-01 03:44:44	2018-11-02 06:34:10

R2-1816932	Discussion on failure handling of handover	OPP	not treated	2018-11-01 03:44:44	2018-11-02 06:34:10
R2-1816933	Correction on ASN.1 define of s-IntraSearchP	Medi	not	2018-11-01 03:48:36	2018-11-02 05:06:52
R2-1816934	Corrections on number of RadioLinkMonitoringRS condifuration	OPP O	revised	2018-11-01 04:15:56	2018-11-02 02:21:59
R2-1816935	Discussion on the time synchronization within RAN for supporting IIOT	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816936	(Draft) LS on time reference provided via SIB9 in NR	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816937	Scenarios on Ethernet header compression for	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816938	Ethernet MAC header compression	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816939	Protocol architecture for I-IOT	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816940	SPS for periodic deterministic traffic	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816941	Consideration on the multi-leg PDCP duplication	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816942	Interaction between MAC and PHY for intra-UE	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816943	Prioritize UL grant for URLLC service	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816944	SR cancellation for URLLC service	vivo	not treated	2018-11-01 04:59:45	2018-11-02 05:50:06
R2-1816945	Clarification on UDC configuration	CAT T,	agreed	2018-11-01 05:45:39	2018-11-02 06:42:00
R2-1816946	Further Consideration on Simultaneous Connectivity Handover	CAT T	not treated	2018-11-01 05:45:41	2018-11-02 06:52:01
R2-1816947	Solutions on Reduction in user data interruption	CAT T	not treated	2018-11-01 05:45:41	2018-11-02 06:52:01
R2-1816948	Clarification of the Scope for LTE connectivity to 5G-	CAT	not treated	2018-11-01 05:45:41	2018-11-02 06:52:01
R2-1816949	Discussion on the Relation of the Capability ID to Specific Capability Containers	CAT T	not treated	2018-11-01 05:45:41	2018-11-02 05:55:38
R2-1816950	Further Consideration on Compression Approach	CAT T	not treated	2018-11-01 05:45:41	2018-11-02 05:55:38
R2-1816951	TP on Compression Approach	CAT T	not treated	2018-11-01 05:45:41	2018-11-02 05:55:38
R2-1816952	Consideration on Combination Solutions for Capability Signalling Optimization	CAT T	not treated	2018-11-01 05:45:41	2018-11-02 05:55:38
R2-1816953	TP on Combination Solutions for Capability Signalling Optimization	CAT T	not treated	2018-11-01 05:45:41	2018-11-02 05:55:38
R2-1816954	Consideration on NR Positioning R16	CAT	not treated	2018-11-01 05:45:41	2018-11-02 06:36:04
R2-1816955	Consideration on Supporting Local LMF in NR	CAT	noted	2018-11-01 05:45:41	2018-11-02 06:36:04
R2-1816956	UE-Group WUS in NB-IoT	Medi	not treated	2018-11-01 05:52:50	2018-11-02 06:00:32
R2-1816957	Early Transmission in Preconfigured UL Resources in	Medi	not treated	2018-11-01 05:54:44	2018-11-02 06:00:32
R2-1816958	Inter-RAT Cell Selection for NB-IoT	Medi	noted	2018-11-01 05:55:51	2018-11-02 06:00:32
R2-1816959	Conditional Handover Procedures	Medi	not treated	2018-11-01 05:56:52	2018-11-02 06:00:32
R2-1816960	Performance Evaluation and Implication for Conditional	Medi	not treated	2018-11-01 05:58:01	2018-11-02 06:00:32
R2-1816961	Integrated architecture for positioning	ZTE	not treated	2018-11-01 06:01:33	2018-11-02 01:28:08
R2-1816962	Correction for the Start Condition on T319 (S025)	Sam	not	2018-11-01 06:22:50	2018-11-02 01:50:34
R2-1816963	Aligning the Text Procedure for the Suspend RBs	Sam	not treated	2018-11-01 06:24:42	2018-11-02 01:50:34
R2-1816964	CR on Aligning the Text Procedure for the Suspend	Sam	not	2018-11-01 06:27:37	2018-11-02 01:50:34
R2-1816965	CR on Aligning the Text Procedure for the Suspend RBs in LTE	Sam sung	not pursued	2018-11-01 06:32:50	2018-11-02 01:50:34
R2-1816966	Support of Sidelink unicast and groupcast for NR-V2X	ITRI	not treated	2018-11-01 06:34:34	2018-11-01 13:46:38
R2-1816967	Clarification for the Support of Delay Budget Report in	Sam	not treated	2018-11-01 06:37:22	2018-11-02 01:50:34
R2-1816968	Uu enhancements for NR-V2X sidelink resource	ITRI	not treated	2018-11-01 06:38:36	2018-11-01 13:46:38
R2-1816969	CR on the Clarification for the support of the delay budget report in NR	Sam sung	revised	2018-11-01 06:39:22	2018-11-02 01:50:34
R2-1816970	QoS index measurement considerations for NR V2X	ITRI	not treated	2018-11-01 06:40:01	2018-11-01 13:46:38
R2-1816971	CR on the Clarification for the support of the delay budget report in NR	Sam sung	withdrawn	2018-11-01 06:40:11	
R2-1816972	Signaling of Additional UE geo information in NR	ITRI	not treated	2018-11-01 06:41:23	2018-11-01 13:46:38
R2-1816973	Bandwidth Parts and Resource Pools for V2X sidelink	Hua	not treated	2018-11-01 06:41:39	2018-11-02 05:18:00
R2-1816974	Draft LS to SA2 on sidelink connection management for unicast	Hua wei	not treated	2018-11-01 06:41:39	2018-11-02 05:18:00
R2-1816975	Clarification on Configuration of multiplePHR for EN-DC and NR-CA	Sam sung	agreed	2018-11-01 06:44:18	2018-11-02 01:50:34
R2-1816976	Clarification on the Description for resourceType in CSI-ResourceConfig	Sam sung	not pursued	2018-11-01 06:47:54	2018-11-02 01:50:33
R2-1816977	Considerations for Sidelink Resource Pool Design for	Sam	not treated	2018-11-01 06:50:42	2018-11-02 01:50:33
R2-1816978	Sidelink Resource Control between LTE V2X and NR	Sam	not treated	2018-11-01 06:52:12	2018-11-02 01:50:33
R2-1816979	Considerations for Support Mobility for NR V2X	Sam	not treated	2018-11-01 06:53:32	2018-11-02 01:50:33
R2-1816980	Consideration on NR V2X mode 1 resource allocation	ZTE,	not treated	2018-11-01 06:53:42	2018-11-02 06:19:44

R2-1816981	Overall consideration on NR V2X resource allocation	ZTE,	not treated	2018-11-01 06:55:51	2018-11-02 06:19:44
R2-1816982	Clarification of UE procedure when UE receives the UECapabilityEnquiry	Samsung	not treated	2018-11-01 06:56:36	2018-11-02 01:50:33
R2-1816983	Uu enhancements for NR V2X	ZTE,	not treated	2018-11-01 06:56:53	2018-11-02 06:19:44
R2-1816984	Clarification of UE procedure when UE receives the UECapabilityEnquiry in 36.331	Samsung	not pursued	2018-11-01 06:59:04	2018-11-02 01:50:34
R2-1816985	UE capability handling for FDD/TDD and FR1/FR2	Samsung	withdrawn	2018-11-01 07:01:55	
R2-1816986	CR on issues in resource reselection behaviour in TS	ZTE,	not treated	2018-11-01 07:02:21	2018-11-02 06:19:44
R2-1816987	Intra-UE prioritization and multiplexing between URLLC and eMBB	III	not treated	2018-11-01 07:03:37	2018-11-02 04:19:52
R2-1816988	Consideration on QoS management for NR V2X	ZTE,	not treated	2018-11-01 07:04:37	2018-11-02 06:19:44
R2-1816989	UE capability handling for FDD/TDD and FR1/FR2	Sam	agreed	2018-11-01 07:05:26	2018-11-02 01:50:34
R2-1816990	Discussion on NR V2X mode 2 alternatives	ZTE,	not treated	2018-11-01 07:06:32	2018-11-02 06:19:44
R2-1816991	Discussion on remaining issue in carrier selection	ZTE,	revised	2018-11-01 07:07:23	2018-11-02 06:19:44
R2-1816992	UE capability handling for FDD/TDD and FR1/FR2	Sam	revised	2018-11-01 07:08:17	2018-11-02 01:50:34
R2-1816993	Main issues for transmission over preconfigured dedicated resource in IDLE	ZTE Corp	not treated	2018-11-01 07:10:46	2018-11-02 05:08:01
R2-1816994	Report of email discussion [103bis#40][NR/V2X] RAT selection for SL	ZTE, Sane	noted	2018-11-01 07:10:48	2018-11-21 06:18:02
R2-1816995	Support of unicast and groupcast in NR Sidelink	ZTE, Sane	not treated	2018-11-01 07:12:07	2018-11-02 06:19:44
R2-1816996	In device coexistence between NR V2X and LTE V2X	ZTE,	not treated	2018-11-01 07:13:21	2018-11-02 06:19:44
R2-1816997	Discussion on LTE and NR Uu based resource allocation and configuration for sidelink	ZTE, Sane	not treated	2018-11-01 07:14:25	2018-11-02 06:19:44
R2-1816998	Correction to Default MAC Cell Group configuration	Sam	withdrawn	2018-11-01 07:17:01	
R2-1816999	Correction to Ambiguous Terminologies with respect to Cell Ranking	Samsung	withdrawn	2018-11-01 07:17:02	
R2-1817000	Correction to missing field descriptions of PLMN	Sam	withdrawn	2018-11-01 07:17:03	
R2-1817001	Discussion on Support of Vulnerable Road User	Sam	not treated	2018-11-01 07:17:04	2018-11-02 01:20:20
R2-1817002	Discussion on Paging Monitoring in Camped on Any	Sam	not treated	2018-11-01 07:17:04	2018-11-02 01:20:20
R2-1817003	Further clarification on final suitability check	Sam	merged	2018-11-01 07:17:04	2018-11-02 01:20:20
R2-1817004	Clarification of UE behavior for barred cell	Sam	noted	2018-11-01 07:17:05	2018-11-02 01:20:20
R2-1817005	Correction to UE behavior for barred cell	Sam	revised	2018-11-01 07:17:05	2018-11-02 01:20:20
R2-1817006	Clarification of UE behavior upon entering Any Cell Selection state	Samsung	not treated	2018-11-01 07:17:06	2018-11-02 01:20:20
R2-1817007	Correction to UE behavior upon entering Any Cell Selection state	Samsung	not treated	2018-11-01 07:17:06	2018-11-02 01:20:20
R2-1817008	Sidelink Scenarios for NR V2X	Samsung	not treated	2018-11-01 07:22:48	2018-11-02 05:55:54
R2-1817009	sidelink SPS for NR V2X	Samsung	not treated	2018-11-01 07:24:15	2018-11-02 05:55:54
R2-1817010	Uu Enhancements for NR V2X	Samsung	noted	2018-11-01 07:25:52	2018-11-02 05:55:54
R2-1817011	RAT Selection for NR V2X Sidelink	Samsung	not treated	2018-11-01 07:27:07	2018-11-02 05:55:54
R2-1817012	QoS Management for NR V2X	Samsung	not treated	2018-11-01 07:28:33	2018-11-02 05:55:54
R2-1817013	Clarification on DRX in CA and DC	Sam	not treated	2018-11-01 07:37:44	2018-11-02 04:56:29
R2-1817014	Miscellaneous corrections	Sam	revised	2018-11-01 07:39:38	2018-11-02 04:56:29
R2-1817015	Clarification on the presence of ra-ResponseWindow	Sam	agreed	2018-11-01 07:41:51	2018-11-02 04:56:30
R2-1817016	Corrections on the IDLE State Measurement	vivo	withdrawn	2018-11-01 07:43:03	2018-11-02 05:19:02
R2-1817017	Clarification on dynamic scheduling override configured downlink assignment	vivo, Rapp	withdrawn	2018-11-01 07:43:04	2018-11-02 05:19:02
R2-1817018	Consideration on Reusing Rel-15 NR Positioning Architecture and Protocols	vivo	not treated	2018-11-01 07:43:05	2018-11-02 05:19:02
R2-1817019	Some clarifications on CS-RNTI	vivo, Rapporteu	not pursued	2018-11-01 07:43:05	2018-11-02 05:19:02
R2-1817020	Move bear type change table to normative text	vivo	not treated	2018-11-01 07:43:06	2018-11-02 05:19:02
R2-1817021	Clean up on rsrp-ThresholdSSB and rsrp-ThresholdCSI-RS	vivo	merged	2018-11-01 07:43:07	2018-11-02 05:19:02
R2-1817022	Continue RACH without RACH reconfiguration after RRC BWP switching	vivo	not treated	2018-11-01 07:43:08	2018-11-02 05:19:02
R2-1817023	Further discussion on SMTC operation in MAC	vivo	noted	2018-11-01 07:43:09	2018-11-02 05:19:02
R2-1817024	SMTC operation in MAC	vivo	not treated	2018-11-01 07:43:09	2018-11-02 05:19:02

R2-1817025	Measurement gap configuration	vivo	not treated	2018-11-01 07:43:09	2018-11-02 05:19:02
R2-1817026	TCI state of CORESET zero	vivo	not treated	2018-11-01 07:43:10	2018-11-02 05:19:02
R2-1817027	ANR in later drop	vivo	not treated	2018-11-01 07:43:11	2018-11-02 05:19:02
R2-1817028	Serving cell applicabiity for B event on EN-DC NG-EN-DC and NE-DC	vivo	not treated	2018-11-01 07:43:11	2018-11-02 05:19:02
R2-1817029	Clarification on phr-Type2OtherCell	Sam	revised	2018-11-01 07:44:24	2018-11-02 04:56:30
R2-1817030	Correction on the need code in RACH-ConfigCommon	Sam sung	merged	2018-11-01 07:46:45	2018-11-02 04:56:30
R2-1817031	ssb-PositionsInBurst correction	Noki a,	revised	2018-11-01 07:51:04	2018-11-02 06:02:12
R2-1817032	Barring behaviour when SIB1 reception fails	Noki a,	revised	2018-11-01 07:51:55	2018-11-02 06:02:12
R2-1817033	SIBs required before initiating connection	Noki a,	revised	2018-11-01 07:52:35	2018-11-02 06:02:12
R2-1817034	Scheduling and resource allocation principle	Medi	not treated	2018-11-01 07:56:00	2018-11-02 03:06:18
R2-1817035	The handling of MAC entity in RRC	Sam	not treated	2018-11-01 07:56:19	2018-11-02 04:56:30
R2-1817036	System Information Storing and Validity Clarifications and Corrections	Noki a, Noki a Shan ghai Bell, Sam sung	revised	2018-11-01 07:57:32	2018-11-02 06:02:12
R2-1817037	Removal of creation of MAC entity	Sam	not treated	2018-11-01 07:58:49	2018-11-02 04:56:30
R2-1817038	ASN.1 correction to fr-InfoListSCG in CG-Config	Noki a,	agreed	2018-11-01 08:09:21	2018-11-02 02:25:31
R2-1817039	Clarification for Interruption-based and gap-based SFTD measurement	Noki a,	agreed	2018-11-01 08:09:22	2018-11-02 02:25:31
R2-1817040	Clarification to UE capability of independentGapConfig for inter-RAT NR measurement not yet configured with	Noki a,	agreed	2018-11-01 08:09:23	2018-11-02 02:25:31
R2-1817041	MPDCCH monitoring for receiving HARQ ACK feedback	Noki a,	agreed	2018-11-01 08:09:24	2018-11-02 02:25:31
R2-1817042	SON measurements and reporting for NB-IoT	Noki a,	not treated	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817043	Signaling Aspects for transmission in preconfigured resources	Noki a,	not treated	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817044	Power Efficient mechanism for Inter RAT cell selection	Noki a,	not treated	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817045	Analysis of Downlink EDT options	Noki a,	not treated	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817046	Downlink EDT Scenarios	Noki a,	not treated	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817047	Analysis of GWUS and common WUS	Noki a,	not treated	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817048	Analysis of Group WUS Options	Noki a,	noted	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817049	Common aspects of signaling of assistance information for Inter RAT cell selection across RATs	Noki a,	not treated	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817050	Signalling of PCI for each SSB over Xn	Noki a,	noted	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817051	Addition of PCI in MeasTiming	Noki a,	revised	2018-11-01 08:09:26	2018-11-02 02:25:31
R2-1817052	Reply LS on measurement of different SSBs with different PCIs within the same NCGI	Noki a,	not treated	2018-11-01 08:09:27	2018-11-02 02:25:31
R2-1817053	Analysis for transmission over preconfigured shared resource in IDLE	ZTE Corp	not treated	2018-11-01 08:09:29	2018-11-02 09:08:03
R2-1817054	Analysis for transmission over preconfigured shared resource in IDLE	ZTE Corp	withdrawn	2018-11-01 08:09:43	
R2-1817055	Ambiguity on cell id in ReestabNCellInfo	ZTE, Sane	postponed	2018-11-01 08:10:53	2018-11-02 01:38:35
R2-1817056	CR to the ambiguity on CellIdentity in ReestabNCellInfo	ZTE, Sane	postponed	2018-11-01 08:10:53	2018-11-02 01:38:35

R2-1817057	CR to the ambiguity on CellIdentity in	ZTE,	postponed	2018-11-01 08:10:54	2018-11-02 01:38:35
R2-1817058	CR to the ambiguity on CellIdentity in	ZTE,	postponed	2018-11-01 08:10:56	2018-11-02 01:38:35
R2-1817059	Remaining issues on SRB duplication	ZTE,	not treated	2018-11-01 08:10:59	2018-11-02 01:38:35
R2-1817060	CR on the logical channel ID for SRB	ZTE,	not treated	2018-11-01 08:10:59	2018-11-02 01:38:35
R2-1817061	Consideration on TA management in NTN	ZTE,	not treated	2018-11-01 08:11:01	2018-11-02 01:38:35
R2-1817062	Consideration on the cell definition and NTN mobility	ZTE,	not treated	2018-11-01 08:11:01	2018-11-02 01:38:35
R2-1817063	RACH capacity analysis in NTN	ZTE,	withdrawn	2018-11-01 08:11:01	2018-11-02 01:38:35
R2-1817064	Msg2 payload contents for 2-step RACH	ZTE,	not treated	2018-11-01 08:11:01	2018-11-02 01:38:35
R2-1817065	CR on the ambiguity of targetCellIdentity in Resume/Reestablishment MAC-I calculation	ZTE, Sane	revised	2018-11-01 08:11:01	2018-11-02 01:38:35
R2-1817066	Remaining Considerations on Behavior of bwp-	ZTE,	not treated	2018-11-01 08:11:04	2018-11-02 02:43:42
R2-1817067	CR to 38.321 for bwp-Inactivetimer	ZTE,	revised	2018-11-01 08:11:04	2018-11-02 02:43:42
R2-1817068	CR to 38.321 for SPS DL tranmission during measurement gap	ZTE, Sane	withdrawn	2018-11-01 08:11:05	2018-11-02 02:43:42
R2-1817069	CR to 38.321 for Configured grant timer	ZTE,	withdrawn	2018-11-01 08:11:06	2018-11-02 02:43:42
R2-1817070	Consideration on intra-UE prioritization/multiplexing	ZTE,	not treated	2018-11-01 08:11:08	2018-11-02 02:43:42
R2-1817071	Considerations on PDCP duplication with multiple	ZTE,	not treated	2018-11-01 08:11:08	2018-11-02 04:55:27
R2-1817072	Resource allocation in IAB	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817073	Route management in IAB	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817074	Open issues related to IAB power on procedure	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817075	Considerations on initial access procedures for NR unlicensed operations	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817076	UL Intra-UE Pre-emption and Resource conflicts	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817077	UL Logical Channel Prioritization and Multiplexing	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817078	MAC enhancements considering long propagation delay in NTN	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817079	Consideration on mobility impacts of NTN support in	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817080	Location report in NTN	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817081	Discussion on OTDOA NR Positioning , based on	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817082	Dual event based Early handover	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817083	Uplink based HO,	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817084	Security and L2 aspects for simultaneous HO	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817085	UE grouping for WUS	Sony	not treated	2018-11-01 08:11:41	2018-11-01 19:07:36
R2-1817086	n1PUCCH-AN-CS-ListP1-r13 asn1 error correction	Noki a, Noki	revised	2018-11-01 08:16:10	2018-11-02 06:02:12
R2-1817087	n1PUCCH-AN-CS-ListP1-r13 asn1 error correction	Noki a, Noki	revised	2018-11-01 08:16:12	2018-11-02 06:02:12
R2-1817088	n1PUCCH-AN-CS-ListP1-r13 asn1 error correction	Noki a, Noki	revised	2018-11-01 08:16:14	2018-11-02 06:02:12
R2-1817089	SCG and resume	Noki a,	merged	2018-11-01 08:16:15	2018-11-02 06:02:12
R2-1817090	Periodic RNAU correction	Noki a, Noki a Shanghai Bell	not pursued	2018-11-01 08:16:17	2018-11-02 06:02:12
R2-1817091	Unnecessary limitation in RAN area configuration	Noki a,	not treated	2018-11-01 08:16:19	2018-11-02 06:02:12
R2-1817092	Unnecessary limitation in RAN area configuration	Noki a,	not treated	2018-11-01 08:16:19	2018-11-02 06:02:12
R2-1817093	SIBs that trigger SI request procedure	Noki a,	revised	2018-11-01 08:16:21	2018-11-02 06:02:12
R2-1817094	LBT types for NR-U	Sam	not treated	2018-11-01 08:24:57	2018-11-02 04:56:30
R2-1817095	Discussion on SR transmission for NR-U	Goog	not treated	2018-11-01 08:25:23	2018-11-02 01:32:07
R2-1817096	Consideration on the LTE5GC applicability	Chin	noted	2018-11-01 08:26:34	2018-11-01 15:20:54
R2-1817097	Handover robustness improvement for simultaneous connectivity handover	Chin a	not treated	2018-11-01 08:26:34	2018-11-01 15:20:54
R2-1817098	Simulation for conditional handover	Chin	not treated	2018-11-01 08:26:34	2018-11-01 15:20:54
R2-1817099	Group BWP switching in unlicensed band	Sam	not treated	2018-11-01 08:26:35	2018-11-02 04:56:30

R2-1817100	Consideration on NR positioning architecture for LCS	Hua	not treated	2018-11-01 08:27:34	2018-11-02 03:20:59
R2-1817101	Functional interfaces protocol and procedures for NR positioning	Huawei,	not treated	2018-11-01 08:27:34	2018-11-02 03:20:59
R2-1817102	Consideration on the commercial use cases in NR	Hua	not treated	2018-11-01 08:27:35	2018-11-02 03:20:59
R2-1817103	DRX for NR-U	Sam	not treated	2018-11-01 08:28:18	2018-11-02 04:56:30
R2-1817104	Remaining issues on UL path switch for SN terminated split bearer	ZTE, Sane	noted	2018-11-01 08:30:10	2018-11-02 01:38:35
R2-1817105	Discussion on SUL for NR-U	Goog	revised	2018-11-01 08:31:07	2018-11-02 08:04:31
R2-1817106	Corrections on random access preambles for SSBs	Goog	not treated	2018-11-01 08:43:32	2018-11-02 01:32:07
R2-1817107	NR V2X scenario for PDCP duplication supporting	vivo	not treated	2018-11-01 08:54:43	2018-11-02 06:33:22
R2-1817108	Sidelink unicast procedures in NR	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817109	Discussion on resource allocation mechanism for NR	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817110	Latency reduction for mode 1 and mode 2	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817111	Communication range for NR V2X	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817112	Draft LS on communication range for NR V2X	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817113	Discussion on the support of NR mode1 and LTE mode3 for the cross-RAT control	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817114	Congestion control in NR V2X	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817115	Sidelink groupcast in NR	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817116	Different destination service multiplexing in MAC	vivo	not treated	2018-11-01 08:54:45	2018-11-02 06:33:22
R2-1817117	Connection establishment for Unicast in NR V2X	Lenovo,	not treated	2018-11-01 08:55:22	2018-11-02 02:34:27
R2-1817118	Discussion on QoS management for NR V2X	Lenovo,	not treated	2018-11-01 08:58:25	2018-11-02 02:34:27
R2-1817119	Remaining aspects of capabilities for Rel-15 Aerial WI	Ericsson, NTT	agreed	2018-11-01 08:59:39	2018-11-01 09:01:57
R2-1817120	Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14	KDDI	withdrawn	2018-11-01 09:04:22	
R2-1817121	Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14	KDDI	withdrawn	2018-11-01 09:06:59	
R2-1817122	Interactions between legacy nodes and new Rel.16 UE capability mechanism	KDDI	not treated	2018-11-01 09:09:11	2018-11-02 04:25:42
R2-1817123	Corrections on cell selection and reselection states	Ericsson	not treated	2018-11-01 09:09:25	2018-11-02 05:43:31
R2-1817124	Handling RAT priorities in low frequency NR deployment scenarios	Ericsson	not treated	2018-11-01 09:09:27	2018-11-02 05:43:31
R2-1817125	Cell-specific priority based cell re-selection	Ericsson	not treated	2018-11-01 09:09:27	2018-11-02 05:43:31
R2-1817126	Cell-specific priority based cell re-selection	Ericsson	not treated	2018-11-01 09:09:27	2018-11-02 05:43:31
R2-1817127	Cell-specific priority based cell re-selection	Ericsson	not treated	2018-11-01 09:09:28	2018-11-02 05:43:31
R2-1817128	Measurement threshold with different power class Ues	Ericsson	not treated	2018-11-01 09:09:29	2018-11-02 05:43:31
R2-1817129	Correction for Pcompensation	Ericsson	not treated	2018-11-01 09:09:29	2018-11-02 05:43:31
R2-1817130	Clarification for absense of nr-NS-PmaxList IE	Ericsson	agreed	2018-11-01 09:09:30	2018-11-02 05:43:31
R2-1817131	Miscellaneous corrections related to p-Max	Ericsson	not	2018-11-01 09:09:31	2018-11-02 05:43:31
R2-1817132	Correction for support of initial downlink BWP	Ericsson	not treated	2018-11-01 09:09:32	2018-11-02 05:43:31
R2-1817133	Correction for support of initial downlink BWP	Ericsson	revised	2018-11-01 09:09:32	2018-11-02 05:43:31
R2-1817134	Open issues for Idle mode related signalling	Ericsson	not treated	2018-11-01 09:09:33	2018-11-02 05:43:31
R2-1817135	Miscellaneous corrections related to idle mode SIBs	Ericsson	revised	2018-11-01 09:09:33	2018-11-02 05:43:31
R2-1817136	Corrections to measurement quantity	Ericsson	not treated	2018-11-01 09:09:34	2018-11-02 05:43:31
R2-1817137	Correction to measurement quantity in multi-beam	Ericsson	not	2018-11-01 09:09:34	2018-11-02 05:43:31
R2-1817138	Correction for missing fields in SIB2 and SIB4	Ericsson	revised	2018-11-01 09:09:35	2018-11-02 05:43:31
R2-1817139	Scaling of cell reselection parameters based on	Ericsson	not treated	2018-11-01 09:09:36	2018-11-02 05:43:31
R2-1817140	Clarification on cell reselection conditions during TreselectionRAT	Ericsson	not treated	2018-11-01 09:09:36	2018-11-02 05:43:31
R2-1817141	Clarification on cell reselection conditions during TreselectionRAT	Ericsson	agreed	2018-11-01 09:09:36	2018-11-02 05:43:31
R2-1817142	MICO mode in NR	Ericsson	not treated	2018-11-01 09:09:37	2018-11-02 05:43:31
R2-1817143	Introduction of MICO mode	Ericsson	revised	2018-11-01 09:09:37	2018-11-02 05:43:31
R2-1817144	Monitoring paging in Camped on Any Cell state	Ericsson	not treated	2018-11-01 09:09:38	2018-11-02 05:43:31
R2-1817145	Correction to monitoring paging in Camped on Any Cell	Ericsson	agreed	2018-11-01 09:09:38	2018-11-02 05:43:31
R2-1817146	Q-RxLevMin and Q-QualMin value range	Ericsson	not treated	2018-11-01 09:09:39	2018-11-02 05:43:31
R2-1817147	Correction to Q-RxLevMin and Q-QualMin value range	Ericsson	revised	2018-11-01 09:09:39	2018-11-02 05:43:31
R2-1817148	P-Max value range	Ericsson	not treated	2018-11-01 09:09:40	2018-11-02 05:43:31
R2-1817149	Correction to P-Max value range for FR2	Ericsson	postponed	2018-11-01 09:09:40	2018-11-02 05:43:31

R2-1817150	Minor corrections to paging	Ericsson	agreed	2018-11-01 09:09:42	2018-11-02 05:43:31
R2-1817151	Minor clarifications for paging	Ericsson	not treated	2018-11-01 09:09:43	2018-11-02 05:43:31
R2-1817152	Minor clarifications for paging	Ericsson	revised	2018-11-01 09:09:44	2018-11-02 05:43:31
R2-1817153	Correction on paging for LTE connected to 5GC	Ericsson	agreed	2018-11-01 09:09:45	2018-11-02 05:43:31
R2-1817154	Clarification on paging in connected mode	Ericsson	agreed	2018-11-01 09:09:46	2018-11-02 05:43:31
R2-1817155	DRX value range in Idle and Inactive mode in NR	Ericsson	not treated	2018-11-01 09:09:47	2018-11-02 05:43:31
R2-1817156	Correction to UE specific DRX cycle	Ericsson	not treated	2018-11-01 09:09:47	2018-11-02 05:43:31
R2-1817157	Correction to UE specific DRX cycle	Ericsson	not treated	2018-11-01 09:09:48	2018-11-02 05:43:31
R2-1817158	Extension of the defaultpagingCycle range	Ericsson	not treated	2018-11-01 09:09:49	2018-11-02 05:43:31
R2-1817159	Paging duration in RAN	Ericsson	noted	2018-11-01 09:09:50	2018-11-02 05:43:31
R2-1817160	LS on paging duration in RAN	Ericsson	not treated	2018-11-01 09:09:50	2018-11-02 05:43:31
R2-1817161	On demand SI	Ericsson	noted	2018-11-01 09:09:50	2018-11-02 05:43:31
R2-1817162	Correction to on demand SI acquisition	Ericsson,	not treated	2018-11-01 09:09:50	2018-11-02 05:43:31
R2-1817163	SI reading in multi-beam operations	Ericsson	not treated	2018-11-01 09:09:51	2018-11-02 05:43:31
R2-1817164	SIB1 and other SIBs content in multi-beam operations	Ericsson	not	2018-11-01 09:09:51	2018-11-02 05:43:31
R2-1817165	Cell reselection during on-demand SI procedure	Ericsson	not treated	2018-11-01 09:09:52	2018-11-02 05:43:31
R2-1817166	SI acquisition at BWP switching	Ericsson	not treated	2018-11-01 09:09:53	2018-11-02 05:43:31
R2-1817167	SI acquisition at BWP switching	Ericsson	not treated	2018-11-01 09:09:53	2018-11-02 05:43:31
R2-1817168	Minor corrections to SI acquisition	Ericsson	merged	2018-11-01 09:09:54	2018-11-02 05:43:31
R2-1817169	Parent node selection for IAB access	Lenovo,	not treated	2018-11-01 09:10:51	2018-11-02 03:39:31
R2-1817170	RLF in backhaul link	Lenovo,	not treated	2018-11-01 09:15:38	2018-11-02 03:39:31
R2-1817171	Industrial IoT with NR	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817172	Overview of UE Time Synchronization Methods	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817173	Clock Accuracy Realization at UE	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817174	On support for deterministic periodic traffic with configured grants	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817175	Ethernet Header Compression	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817176	Use Cases, Scenarios and Evaluation of Requirements	Ericsson	noted	2018-11-01 09:18:14	2018-11-01 20:17:27
R2-1817177	On scheduling request overlapping with UL-SCH	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817178	On prioritization between overlapping configured and dynamic grants	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817179	Resource efficient data duplication	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817180	Multiple duplicate handling	Ericsson	not treated	2018-11-01 09:18:14	2018-11-01 20:17:28
R2-1817181	DRX Procedure for NR-U	PANASO	not treated	2018-11-01 09:18:19	2018-11-01 10:36:37
R2-1817182	SR in NR-U	PANASO	not treated	2018-11-01 09:21:21	2018-11-01 10:36:37
R2-1817183	On contens of measObjectEUTRA	Ericsson	agreed	2018-11-01 09:29:02	2018-11-01 09:35:05
R2-1817184	Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14	KDDI, China Mobi	revised	2018-11-01 09:29:49	2018-11-02 04:25:42
R2-1817185	Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14	KDDI, China Mobi	agreed	2018-11-01 09:32:30	2018-11-02 04:25:42
R2-1817186	On RRM measurements related procedual text corrections	Ericsson	agreed	2018-11-01 09:33:34	2018-11-01 09:35:05
R2-1817187	SI message reception in the next modification period	ETRI	noted	2018-11-01 09:35:19	2018-11-01 13:47:10
R2-1817188	Conditions on camping on a non-best cell	Nokia,	not treated	2018-11-01 09:38:37	2018-11-01 19:27:20
R2-1817189	RRC connected mode mobility for NR-U	Nokia,	not treated	2018-11-01 09:38:37	2018-11-01 19:27:20
R2-1817190	Discussion on DRX for NR-U	Nokia,	not treated	2018-11-01 09:38:37	2018-11-01 19:27:20
R2-1817191	RLM/RLF measurement on NR-U	Nokia,	not treated	2018-11-01 09:38:37	2018-11-01 19:27:20

R2-1817192	2-step RACH resource assignment and fall-back operation for NR-U	Nokia,	not treated	2018-11-01 09:38:37	2018-11-01 19:27:20
R2-1817193	Available tools for PCI confusion and collision in NR-U	Nokia,	noted	2018-11-01 09:38:37	2018-11-01 19:27:20
R2-1817194	On the impact of LBT on RA, SR and RLF procedure	Nokia,	not treated	2018-11-01 09:38:37	2018-11-01 19:27:20
R2-1817195	Network control of 2-step CBRA procedure	Nokia,	not treated	2018-11-01 09:38:37	2018-11-01 19:27:20
R2-1817196	CR on SI message reception in the next modification	ETRI	not treated	2018-11-01 09:38:54	2018-11-01 13:47:10
R2-1817197	Clarification of guami-Type	Ericsson	agreed	2018-11-01 09:42:10	2018-11-01 14:06:48
R2-1817198	[E201] CR to 36.331 on handling of mapped GUMMEI/GUAMI at idle mode mobility between 5GS	Ericsson	agreed	2018-11-01 09:42:11	2018-11-01 14:06:48
R2-1817199	CR to 38.331 on protection of RRC messages table	Ericsson	agreed	2018-11-01 09:42:12	2018-11-01 14:06:48
R2-1817200	Release and Redirect in 2-step procedure	Ericsson	agreed	2018-11-01 09:42:13	2018-11-01 14:06:48
R2-1817201	Correction of capability name for NW based CRS interference mitigation	Ericsson	agreed	2018-11-01 09:42:14	2018-11-01 14:06:48
R2-1817202	CR to 36.331 on correction of field descriptions for NW based CRS interference mitigation	Ericsson	revised	2018-11-01 09:42:15	2018-11-01 14:13:36
R2-1817203	Clarification of AMF switch in RRC_INACTIVE	Ericsson,	revised	2018-11-01 09:42:16	2018-11-01 14:20:29
R2-1817204	Release and Redirect in 2-step procedure	Ericsson	revised	2018-11-01 09:42:17	2018-11-01 23:18:16
R2-1817205	Release and Redirect in 2-steps without context	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 23:18:16
R2-1817206	Draft LS to RAN3 on on Release and Redirect without context relocation	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 23:18:16
R2-1817207	NAS indication in Release-with-Redirect in 2-step resume procedure scenario triggered by NAS	Ericsson	noted	2018-11-01 09:42:19	2018-11-01 23:18:16
R2-1817208	Draft LS to CT1 on NAS indications in Release with Redirect in resume scenarios triggered by NAS	Ericsson	revised	2018-11-01 09:42:19	2018-11-01 23:18:16
R2-1817209	Inter-RAT Release and Redirect in 2-step procedure	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 23:18:16
R2-1817210	Handling of DRB integrity verification failure	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 15:32:31
R2-1817211	On algorithm change in resume, re-establishment and	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 15:32:31
R2-1817212	RRC Reestablishment during N2 Handover	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 15:32:31
R2-1817213	Security aspects of RNAU without context relocation	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 15:32:31
R2-1817214	Pending RNAU in any cell selection state	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 23:18:16
R2-1817215	Pending RNAU in any cell selection state	Ericsson	not treated	2018-11-01 09:42:19	2018-11-01 23:18:16
R2-1817216	Stopping T302 upon reception of RRC Release	Ericsson	not treated	2018-11-01 09:42:21	2018-11-01 23:18:16
R2-1817217	Stopping T302 upon reception of RRC Release	Ericsson	not	2018-11-01 09:42:21	2018-11-01 23:18:16
R2-1817218	Correction to RNA update procedure	Ericsson	not	2018-11-01 09:42:22	2018-11-01 15:32:31
R2-1817219	Measurement configuration during inactive state	Ericsson	not	2018-11-01 09:42:23	2018-11-01 23:18:16
R2-1817220	Slice-based wait timer in RRC connection release	Ericsson	not treated	2018-11-01 09:42:27	2018-11-01 23:18:16
R2-1817221	Further aspects of PLMN information in 2-step resume procedure	Ericsson	not treated	2018-11-01 09:42:27	2018-11-01 15:32:31
R2-1817222	Clarification of cell reselection during resume	Ericsson	revised	2018-11-01 09:42:27	2018-11-01 23:18:16
R2-1817223	T302 override or not for MPS and MCS?	Ericsson	not treated	2018-11-01 09:42:28	2018-11-01 14:31:11
R2-1817224	Determination of Access Identities for AS-triggered	Ericsson	noted	2018-11-01 09:42:28	2018-11-01 14:31:11
R2-1817225	Determination of Access Identities for AS-triggered	Ericsson	revised	2018-11-01 09:42:28	2018-11-01 14:31:11
R2-1817226	Draft LS to CT1 on Determination of Access Identities for AS-triggered Events	Ericsson	revised	2018-11-01 09:42:29	2018-11-01 14:31:11
R2-1817227	Access barring check after handover	Ericsson	revised	2018-11-01 09:42:29	2018-11-01 14:31:11
R2-1817228	Access barring check after handover for eLTE	Ericsson	revised	2018-11-01 09:42:30	2018-11-01 14:31:11
R2-1817229	CR to 38.331 on stopping T390 and UE related actions	Ericsson	revised	2018-11-01 09:42:31	2018-11-01 23:18:16
R2-1817230	Stopping T390 upon reception of RRC Release	Ericsson	not treated	2018-11-01 09:42:32	2018-11-01 23:18:16
R2-1817231	Stopping T390 upon reception of RRC Release	Ericsson	revised	2018-11-01 09:42:32	2018-11-01 23:18:16
R2-1817232	Clarification of incorrect message sequence in SN initiated SN change	Nokia, Noki	not pursued	2018-11-01 09:47:27	2018-11-02 08:22:50

R2-1817233	Section on UE capability retrieval in MR-DC	Nokia, Noki	revised	2018-11-01 09:47:28	2018-11-02 08:22:50
R2-1817234	Open issues in UE capability segmentation and storage	Nokia,	withdrawn	2018-11-01 09:47:29	
R2-1817235	Output of email discussion [103bis#28] [NR/UE cap SI] UE cap compression TP (Nokia)	Nokia,	not treated	2018-11-01 09:47:29	2018-11-02 08:22:50
R2-1817236	TP to ongoing TR for UE cap ID signalling options	Nokia,	not treated	2018-11-01 09:47:29	2018-11-02 20:33:44
R2-1817237	Summary of MR-DC feature sets and band combination retrieval	Nokia,	noted	2018-11-01 09:47:29	2018-11-02 08:22:50
R2-1817238	Clarification to TS 38.306 on Capability Coordination	Nokia,	not treated	2018-11-01 09:47:29	2018-11-02 08:22:50
R2-1817239	Clarification to TS 38.331 on fields in BandParameters	Nokia,	not pursued	2018-11-01 09:47:30	2018-11-02 08:22:50
R2-1817240	Clarification to TS 36.306 on supportedMIMO-CapabilityDL-r15	Nokia,	revised	2018-11-01 09:47:31	2018-11-02 08:22:50
R2-1817241	Clarification to TS 36.306 on MIMO capabilities in EN-DC	Nokia,	withdrawn	2018-11-01 09:47:32	
R2-1817242	Clarification to TS 36.331 on MIMO capabilities in EN-DC	Nokia,	revised	2018-11-01 09:47:33	2018-11-02 08:22:50
R2-1817243	Alternative signalling option for SupportedBandListNR	Nokia,	revised	2018-11-01 09:47:34	2018-11-02 08:22:50
R2-1817244	Alternative signalling option for SupportedBandListNR	Nokia,	revised	2018-11-01 09:47:35	2018-11-02 08:22:50
R2-1817245	Output of email discussion [103bis#27][NR/Late drop] NR-DC capabilities (Nokia)	Nokia,	noted	2018-11-01 09:47:36	2018-11-02 08:22:50
R2-1817246	delayTolerantAccess is not used with E-UTRA/5GC	Nokia,	not treated	2018-11-01 09:54:02	2018-11-01 10:00:01
R2-1817247	Time Synchronization for IIoT	OPP	not treated	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817248	Scheduling enhancements for TSN network	OPP	not treated	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817249	Ethernet_Header_Compression	OPP	not treated	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817250	Intra-UE Prioritization for IIoT	OPP	not treated	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817251	Discussion on data duplication	OPP	not treated	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817252	Discussion on SA2 redundant transmission for URLLC	OPP	not treated	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817253	[DRAFT] LS on SA2 redundant transmission for	OPP	not treated	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817254	Correction on SPS configuration for HRLLC	OPP	agreed	2018-11-01 09:56:03	2018-11-02 06:37:06
R2-1817255	Correction on SPS configuration for HRLLC	OPP	agreed	2018-11-01 09:56:05	2018-11-02 06:37:06
R2-1817256	Performance Evaluation on UE Capability Compression	MediaTek	not treated	2018-11-01 09:57:07	2018-11-02 05:37:50
R2-1817257	Discussion on dynamic scheduling for TSN	National Taiwan University	not treated	2018-11-01 09:59:31	2018-11-01 10:02:36
R2-1817258	Reply LS to SA2 on QoS monitoring	Hua	revised	2018-11-01 10:00:16	2018-11-01 23:44:38
R2-1817259	Correction to Default MAC Cell Group configuration	Sam	agreed	2018-11-01 10:02:19	2018-11-02 01:20:20
R2-1817260	Correction to missing field descriptions of PLMN	Sam	agreed	2018-11-01 10:04:19	2018-11-02 01:20:20
R2-1817261	Correction to Ambiguous Terminologies with respect to Cell Ranking	Samsung	agreed	2018-11-01 10:06:40	2018-11-02 01:20:20
R2-1817262	issue on SMTC configuration for cell search	OPPO	not treated	2018-11-01 10:13:17	2018-11-02 02:21:59
R2-1817263	CR on MN/SN coordination for report CGI procedure	Nokia, Noki	revised	2018-11-01 10:17:01	2018-11-01 16:11:29
R2-1817264	CR on TCI State Indication for UE-specific PDCCH MAC CE to support CORESET#0	Nokia,	not treated	2018-11-01 10:17:02	2018-11-01 16:19:38
R2-1817265	CR on ssb-PositionsInBurst mismatch issue	Nokia,	not pursued	2018-11-01 10:17:03	2018-11-01 16:19:38

R2-1817266	TR 38.825 v0.0.1	Nokia,	noted	2018-11-01 10:17:04	2018-11-01 15:22:33
R2-1817267	TP on TSN requirements	Nokia,	revised	2018-11-01 10:17:08	2018-11-01 15:22:33
R2-1817268	Support for Clock Synchronization Service	Nokia,	not treated	2018-11-01 10:17:08	2018-11-01 15:47:39
R2-1817269	Ethernet Header Compression for TSN	Nokia,	not treated	2018-11-01 10:17:08	2018-11-01 15:47:39
R2-1817270	NR support for TSN traffic patterns	Nokia,	noted	2018-11-01 10:17:08	2018-11-01 15:47:39
R2-1817271	Topology Management for Spanning Tree topologies	Nokia,	not treated	2018-11-01 10:17:08	2018-11-01 16:06:56
R2-1817272	Comparison of Arch 1a alternatives for user plane	Nokia,	not treated	2018-11-01 10:17:08	2018-11-01 16:06:56
R2-1817273	Further discussion on unified design	Nokia,	noted	2018-11-01 10:17:08	2018-11-01 16:06:56
R2-1817274	Discussion on the accurate reference timing	Hua	not treated	2018-11-01 10:32:42	2018-11-01 23:44:38
R2-1817275	Preamble power ramping	Fujit	agreed	2018-11-01 10:41:13	2018-11-02 05:30:49
R2-1817276	On CFRA in NR-U	Fujit	not treated	2018-11-01 10:41:14	2018-11-02 05:30:49
R2-1817277	Transmission in preconfigured resources for MTC and NB-IoT	Fujitsu	not treated	2018-11-01 10:41:14	2018-11-02 05:30:49
R2-1817278	Improvements to Inter-RAT cell selection for IDLE mode	Fujitsu	not treated	2018-11-01 10:41:14	2018-11-02 05:30:49
R2-1817279	CR to 38.300 on I-RNTI-types	Ericsson	not	2018-11-01 10:56:55	2018-11-02 02:13:50
R2-1817280	CR to 36.331 on alignment of use of fullI-RNTI and i-RNTI in paging and InactiveConfig (alt 1)	Ericsson	not treated	2018-11-01 10:56:56	2018-11-02 02:13:50
R2-1817281	CR to 36.331 on alignment of use of fullI-RNTI and i-RNTI in paging and InactiveConfig (alt 2)	Ericsson	revised	2018-11-01 10:56:57	2018-11-02 02:13:50
R2-1817282	CR to 38.331 on aligning i-RNTI terminology in paging and SuspendConfig (Alt 1)	Ericsson	not treated	2018-11-01 10:56:58	2018-11-02 02:13:50
R2-1817283	CR to 38.331 on aligning i-RNTI terminology in paging and SuspendConfig (Alt 2)	Ericsson	revised	2018-11-01 10:56:59	2018-11-02 02:13:50
R2-1817284	Timer-based transition from Inactive to Idle	Ericsson	not treated	2018-11-01 10:57:00	2018-11-02 02:13:50
R2-1817285	Timer-based transition from Connected to Inactive	Ericsson	not treated	2018-11-01 10:57:00	2018-11-02 02:13:50
R2-1817286	AS-NAS interaction of RRC Reject	Ericsson	not treated	2018-11-01 10:57:00	2018-11-02 02:13:50
R2-1817287	CR to 38.331 on AS-NAS interaction of RRC Reject	Ericsson	not treated	2018-11-01 10:57:00	2018-11-02 02:13:50
R2-1817288	Handling of timer T380 (periodic RNAU timer)	Ericsson	not treated	2018-11-01 10:57:01	2018-11-02 02:13:50
R2-1817289	Draft LS updates on resume failure in RRC_INACTIVE	Ericsson	not treated	2018-11-01 10:57:01	2018-11-02 02:13:50
R2-1817290	CR to 38.331 on Handling of timer T380	Ericsson	not	2018-11-01 10:57:01	2018-11-02 02:13:50
R2-1817291	CR to 38.331 on clarification of IRAT Cell Selection in RRC_INACTIVE	Ericsson	revised	2018-11-01 10:57:02	2018-11-02 02:13:50
R2-1817292	[e073] UE behavior in any cell selection state while in RRC Inactive	Ericsson	withdrawn	2018-11-01 10:57:03	
R2-1817293	[e073] CR to 38.331 on UE behavior in any cell selection state while in RRC Inactive	Ericsson	withdrawn	2018-11-01 10:57:03	
R2-1817294	CR to 38.331 on piggybacking of NAS messages	Ericsson	not	2018-11-01 10:57:05	2018-11-02 02:13:50
R2-1817295	Support of inter-system handover from NR to EN-DC	Ericsson	noted	2018-11-01 10:57:06	2018-11-02 02:13:50
R2-1817296	Introduction of UE capability for inter-system EN-DC setup during handover from NR (38.331)	Ericsson	not treated	2018-11-01 10:57:06	2018-11-02 02:13:50
R2-1817297	Introduction of UE capability for inter-system EN-DC setup during handover from NR (38.306)	Ericsson	not treated	2018-11-01 10:57:08	2018-11-02 02:13:50
R2-1817298	Setup of EN-DC and NGEN-DC during inter-RAT handover to E-UTRA (36.331)	Ericsson	not treated	2018-11-01 10:57:10	2018-11-02 02:13:50
R2-1817299	Modification of condition for fullConfig at inter-system handover from E-UTRA-EPC to NR (38.331)	Ericsson	not treated	2018-11-01 10:57:12	2018-11-02 02:13:50
R2-1817300	Corrections regarding handover from EPC to 5GC	Ericsson	not treated	2018-11-01 10:57:13	2018-11-02 02:13:50
R2-1817301	[E255] CR to 38.331 on corrections related to CGI reporting timer T321	Ericsson	agreed	2018-11-01 10:57:14	2018-11-02 02:13:50
R2-1817302	CR to 36.331 on addition of CGI reporting timer T321	Ericsson	agreed	2018-11-01 10:57:15	2018-11-02 02:13:50
R2-1817303	SSBs without SIB1 in CGI reporting	Ericsson	not treated	2018-11-01 10:57:16	2018-11-02 02:13:50
R2-1817304	Inter-node coordination for ANR in EN-DC	Ericsson	not treated	2018-11-01 10:57:16	2018-11-02 02:13:50
R2-1817305	Discussion on the issues related to variable gNB ID length in NR	Ericsson	noted	2018-11-01 10:57:16	2018-11-02 02:13:50
R2-1817306	CR to 38.331 on the inclusion of gNB ID length in SIB1	Ericsson	not treated	2018-11-01 10:57:16	2018-11-02 02:13:50
R2-1817307	CR to 36.331 on the inclusion of gNB ID length in inter-RAT CGI reporting	Ericsson	not treated	2018-11-01 10:57:17	2018-11-02 02:13:50

R2-1817308	CR to 38.331 on corrections related to CGI reporting	Ericsson	not pursued	2018-11-01 10:57:18	2018-11-02 02:13:50
R2-1817309	CR to 36.331 on addition of CGI reporting timer T321	Ericsson	revised	2018-11-01 10:57:19	2018-11-02 02:13:50
R2-1817310	CN differentiation in MSG3	Ericsson	noted	2018-11-01 10:57:19	2018-11-02 02:13:50
R2-1817311	Supporting MME and AMF overload control	Ericsson	revised	2018-11-01 10:57:19	2018-11-02 02:13:50
R2-1817312	CR to 38.331 on Signaling-only connection	Ericsson	not treated	2018-11-01 10:57:20	2018-11-02 02:13:50
R2-1817313	Remaining aspects of signaling-only connections	Ericsson	not treated	2018-11-01 10:57:21	2018-11-02 02:13:50
R2-1817314	Inter-RAT Handover from GERAN or UTRAN to E-UTRA configured with EN-DC (36.300)	Ericsson	agreed	2018-11-01 10:57:21	2018-11-02 02:13:50
R2-1817315	Update of nas-SecurityParamFromNR according to LS from SA3	Ericsson	agreed	2018-11-01 10:57:22	2018-11-02 02:13:50
R2-1817316	Slicing based wait timer	Ericsson	withdrawn	2018-11-01 10:57:23	
R2-1817317	BSR operation with CA packet duplication	Sequans	not treated	2018-11-01 11:01:06	2018-11-02 00:09:13
R2-1817318	DRX in NR NTN	Spreadtrum	not treated	2018-11-01 11:03:47	2018-11-02 06:11:01
R2-1817319	Random Access Procedure in NR-U	Spreadtrum	not treated	2018-11-01 11:03:47	2018-11-02 05:48:23
R2-1817320	Autonomous Uplink Transmission in NR-U	Spreadtrum	not treated	2018-11-01 11:03:47	2018-11-02 05:48:23
R2-1817321	Corrections on DRX Value Calculation in Paging	Spreadtrum	not treated	2018-11-01 11:03:47	2018-11-02 05:48:23
R2-1817322	Inactive State issues in NR-U	Spreadtrum	not treated	2018-11-01 11:03:48	2018-11-02 05:48:23
R2-1817323	Corrections on T380 considering optionality of t380	Spreadtrum	not treated	2018-11-01 11:03:48	2018-11-02 05:48:23
R2-1817324	Enhancements for PDCP Duplication	Spreadtrum	not treated	2018-11-01 11:03:49	2018-11-02 05:48:23
R2-1817325	SI design in NR-U	Spreadtrum	noted	2018-11-01 11:03:49	2018-11-02 05:48:23
R2-1817326	Consideration on RRC processing latency	Spreadtrum	not treated	2018-11-01 11:03:49	2018-11-02 05:48:23
R2-1817327	Clarify for per CC UL/DL modulation order capabilities	Spreadtrum	revised	2018-11-01 11:03:49	2018-11-02 05:48:23
R2-1817328	CR for CellGroupConfig description	Spreadtrum	not treated	2018-11-01 11:03:50	2018-11-02 05:48:23
R2-1817329	CR for reestablishPDCP correction	Spreadtrum	not treated	2018-11-01 11:03:51	2018-11-02 05:48:23
R2-1817330	CR for pendingRnaUpdate set	Spreadtrum	revised	2018-11-01 11:03:52	2018-11-02 05:48:23
R2-1817331	CR for connEstFailureControl	Spreadtrum	not pursued	2018-11-01 11:03:53	2018-11-02 05:48:23
R2-1817332	Corrections on PRACH configuration index	Spreadtrum	not treated	2018-11-01 11:03:54	2018-11-02 06:03:36
R2-1817333	Corrections on BWP ID	Spreadtrum	revised	2018-11-01 11:03:55	2018-11-02 06:03:36
R2-1817334	Clarification on BWP ID in MAC CE	Spreadtrum	revised	2018-11-01 11:03:56	2018-11-02 06:03:36
R2-1817335	Correction to inter-RAT measurement for NR	Spreadtrum	agreed	2018-11-01 11:03:57	2018-11-02 05:48:23
R2-1817336	Resource Allocation Consideration	Spreadtrum	not treated	2018-11-01 11:03:59	2018-11-02 05:48:23
R2-1817337	Queue Management vs Flow Control for Congestion Handling	Sequans	not treated	2018-11-01 11:06:48	2018-11-02 00:09:13
R2-1817338	Paging with fractional nB value	Sequans	not treated	2018-11-01 11:10:43	2018-11-02 00:09:13
R2-1817339	Correction on paging with fractional nB_Option1	Sequans	not treated	2018-11-01 11:14:40	2018-11-02 00:09:13
R2-1817340	On handling of URLLC traffic during measurement gaps in uplink	Huawei,	not treated	2018-11-01 11:16:00	2018-11-01 23:44:38
R2-1817341	TP for TR 38.874 on bearer mapping for the unified design	Samsung	revised	2018-11-01 11:17:06	2018-11-01 11:46:56
R2-1817342	BFR procedure in DRX	LG Elect	not treated	2018-11-01 11:17:10	2018-11-02 04:54:17

R2-1817343	Correction on paging with fractional nB_Option2	Sequans	not treated	2018-11-01 11:17:48	2018-11-02 00:09:13
R2-1817344	Bearer mapping for the unified design	Samsung	not treated	2018-11-01 11:18:46	2018-11-01 12:12:47
R2-1817345	CR on 38.321 for BFR procedure in DRX	LG Elect	not treated	2018-11-01 11:18:52	2018-11-02 04:54:17
R2-1817346	PDCCH monitoring upon flexible TDD	LG Elect	noted	2018-11-01 11:20:35	2018-11-02 04:54:17
R2-1817347	CR on 38.321 for PDCCH monitoring upon flexible TDD	LG Elect	postponed	2018-11-01 11:22:30	2018-11-02 04:54:17
R2-1817348	Determination of PH value type	LG Elect	not treated	2018-11-01 11:25:18	2018-11-02 04:54:17
R2-1817349	Downselection consideration on IAB architecture group	ZTE	not treated	2018-11-01 11:35:41	2018-11-02 06:47:37
R2-1817350	Correction to the system information in Handover Request message	Huawei,	revised	2018-11-01 11:37:34	2018-11-02 04:50:43
R2-1817351	Corrections for Inter-RAT handover from E-UTRA in TS36.331	Huawei,	revised	2018-11-01 11:37:36	2018-11-02 04:50:43
R2-1817352	Corrections for handover between NR and E-UTRA	Hua	revised	2018-11-01 11:37:37	2018-11-02 04:50:43
R2-1817353	Corrections for handover between NR and E-UTRA in TS36.331	Huawei,	revised	2018-11-01 11:37:38	2018-11-02 04:50:43
R2-1817354	CR on frequencyInfoDL for handover	Hua	revised	2018-11-01 11:37:40	2018-11-02 04:50:43
R2-1817355	Discussion on support of mobility history information	Hua	not treated	2018-11-01 11:37:41	2018-11-02 04:50:43
R2-1817356	Report of [103bis#20][NR] Inter-RAT HO	Hua	noted	2018-11-01 11:37:41	2018-11-02 04:50:43
R2-1817357	[103bis#20] CR to 38331 on release after completion of inter-RAT HO	Huawei,	revised	2018-11-01 11:37:41	2018-11-02 04:50:43
R2-1817358	[103bis#20] CR to 36331 on release after completion of inter-RAT HO	Huawei,	revised	2018-11-01 11:37:41	2018-11-02 04:50:43
R2-1817359	Corrections for handover preparation in 36.331	Huawei,	revised	2018-11-01 11:37:41	2018-11-02 04:50:43
R2-1817360	Corrections for handover to E-UTRA in TS36.331	Hua	revised	2018-11-01 11:37:42	2018-11-02 04:50:43
R2-1817361	Corrections for T304 expiry	Hua	revised	2018-11-01 11:37:43	2018-11-02 04:50:43
R2-1817362	Analysis for supporting the handover from NR to EN-	Hua	not treated	2018-11-01 11:37:44	2018-11-02 04:50:43
R2-1817363	CR on 37.340 for supporting the handover from NR to	Hua	not treated	2018-11-01 11:37:45	2018-11-02 04:50:43
R2-1817364	CR on 36.331 for inter-system MR-DC HO	Hua	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817365	Discussion of CSI-RS measurement for NR-DC	Huawei,	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817366	CR on 38.331 for CSI-RS measurement in NR-DC	Huawei,	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817367	CR on 37.340 for measurement result clarification	Huawei,	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817368	CR on 38.331 for SCG failure in NR-DC	Hua	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817369	Discussion on UE capability coordination in NR-DC	Huawei,	noted	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817370	CR on 37.340 for UE capability coordination result in NR-NR DC	Huawei,	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817371	CR on 38.331 for UE capability coordination in NR-DC	Huawei,	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817372	Support of measurement reporting of SN serving cell and non-serving cell	Huawei,	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817373	CR on 38.331 Reporting of E-UTRA measurements (serving and best non-serving cell) configured by SN in	Huawei,	not treated	2018-11-01 11:37:45	2018-11-02 04:52:08
R2-1817374	Summary of email discussion [103bis#14][NR] Channel Bandwidth Signalling (Cell Accessibility)	Qualcom	noted	2018-11-01 11:38:33	2018-11-02 02:51:29
R2-1817375	Cell accessibility	Qualcom	withdrawn	2018-11-01 11:38:33	
R2-1817376	SRS antenna switching UE capabilities	Qualcom	noted	2018-11-01 11:38:35	2018-11-02 02:51:29
R2-1817377	Introduction of IDC mechanism for EN-DC operation	Qualcom	not treated	2018-11-01 11:38:35	2018-11-02 02:51:29
R2-1817378	EUTRA UE capability filtering in NR UE capability enquiry	Qualcomm Incor	not treated	2018-11-01 11:38:36	2018-11-02 02:51:29
R2-1817379	Integrity Protection data rate enumeration and UL/DL split	Qualcom	not treated	2018-11-01 11:38:37	2018-11-02 02:51:29

R2-1817380	Inter-frequency handover capability	Qualcom	revised	2018-11-01 11:38:37	2018-11-02 02:51:29
R2-1817381	Inter-frequency handover capability	Qualcom	revised	2018-11-01 11:38:38	2018-11-02 02:51:29
R2-1817382	UE RRC Processing Delays for EN-DC and SA	Qualcom	not treated	2018-11-01 11:38:39	2018-11-02 02:51:29
R2-1817383	UE capabilty for IDC mechanism for EN-DC operation	Qualcom	agreed	2018-11-01 11:38:39	2018-11-02 02:51:29
R2-1817384	UE capabilty for IDC mechanism for EN-DC operation	Qualcom	agreed	2018-11-01 11:38:40	2018-11-02 02:51:29
R2-1817385	Additional UE capabilities for NR standalone	Qualcom	revised	2018-11-01 11:38:41	2018-11-02 02:51:29
R2-1817386	Additional UE capabilities for NR standalone	Qualcom	agreed	2018-11-01 11:38:42	2018-11-02 02:51:29
R2-1817387	Timer based BWP switching	Qualcom	agreed	2018-11-01 11:38:43	2018-11-02 02:51:29
R2-1817388	Correction to FDD/TDD Diff for NR PDCP Capabilities	Qualcom	agreed	2018-11-01 11:38:44	2018-11-02 02:51:29
R2-1817389	UE capability for inter-RAT handover from NR to E-UTRA with NR SCG configuration	Qualcom	not treated	2018-11-01 11:38:45	2018-11-02 02:51:29
R2-1817390	UE capability for inter-RAT handover from NR to E-UTRA with NR SCG configuration	Qualcom	not treated	2018-11-01 11:38:46	2018-11-02 02:51:29
R2-1817391	EN-DC configurations upon re-establishement and SGC failure	Qualcom	revised	2018-11-01 11:38:47	2018-11-02 02:51:29
R2-1817392	Clarification of SCG failure before T304 expiry	Qualcom	not pursued	2018-11-01 11:38:48	2018-11-02 02:51:29
R2-1817393	Search space configuration for DCI format 2_0 monitoring	Qualcom	revised	2018-11-01 11:38:49	2018-11-02 02:51:29
R2-1817394	Consideration on IAB unified design	ZTE	not treated	2018-11-01 11:39:14	2018-11-02 06:32:31
R2-1817395	DC based handover	Ericsson	not treated	2018-11-01 11:42:48	2018-11-01 20:07:31
R2-1817396	Enhancements to Make-Before-Break	Ericsson	not treated	2018-11-01 11:42:48	2018-11-01 20:07:31
R2-1817397	RACH-less handover robustness	Ericsson	not treated	2018-11-01 11:42:48	2018-11-01 20:07:31
R2-1817398	Overview on mobility robustness enhancements in LTE	Erics	not treated	2018-11-01 11:42:48	2018-11-01 20:07:31
R2-1817399	Conditional handover in LTE	Erics	noted	2018-11-01 11:42:48	2018-11-01 20:07:31
R2-1817400	Simulation results for conditional handover in LTE	Erics	not treated	2018-11-01 11:42:48	2018-11-01 20:09:18
R2-1817401	Repetition of RRC messages at handover	Erics	not treated	2018-11-01 11:42:48	2018-11-01 20:09:18
R2-1817402	Scenarios for mobility enhancements	Erics	not treated	2018-11-01 11:42:48	2018-11-01 20:09:18
R2-1817403	Enhancing the handling of timer T312	Erics	not treated	2018-11-01 11:42:48	2018-11-01 20:09:18
R2-1817404	Enhancements to re-establishment procedure in LTE	Erics	not treated	2018-11-01 11:42:48	2018-11-01 20:09:18
R2-1817405	Measurement reporting overhead reduction based on enhanced event triggering	Ericsson	not treated	2018-11-01 11:42:48	2018-11-01 20:09:18
R2-1817406	Correction on Configured Scheduling during Random Access Procedure	Ericsson	not pursued	2018-11-01 11:42:48	2018-11-01 20:09:18
R2-1817407	Correction of SPSConfigDL-STTI	Erics	agreed	2018-11-01 11:42:49	2018-11-01 20:09:18
R2-1817408	RRC corrections for URLLC	Erics	agreed	2018-11-01 11:42:50	2018-11-01 20:09:18
R2-1817409	Discussion on flow control in IAB	ZTE	not treated	2018-11-01 11:44:11	2018-11-02 06:32:31
R2-1817410	Clarification on power ramping counter	OPPO,	revised	2018-11-01 11:44:14	2018-11-02 03:47:06
R2-1817411	Discussion on backhaul bearer setup in IAB network	ZTE	noted	2018-11-01 11:46:52	2018-11-02 06:32:31
R2-1817412	RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC	Document	revised	2018-11-01 11:51:24	2018-11-01 12:55:35
R2-1817413	Discussion on user plane many-to-one bearer mapping	ZTE	not treated	2018-11-01 11:53:20	2018-11-02 06:32:31
R2-1817414	Consideration on the RRC re-establishment across E-PLMN	ZTE Corp	noted	2018-11-01 11:53:33	2018-11-01 22:23:46
R2-1817415	Discussion on power headroom configuration exchange	Hua	not treated	2018-11-01 11:54:21	2018-11-02 03:18:53
R2-1817416	Corrections on power headroom configuration	Hua	revised	2018-11-01 11:54:21	2018-11-02 03:18:53
R2-1817417	CR to 38.331 on the RRC re-establishment across E-PLMN	ZTE Corp	not treated	2018-11-01 11:55:52	2018-11-01 22:23:46
R2-1817418	Discussion on IAB node discovery and selection	ZTE	noted	2018-11-01 11:57:16	2018-11-02 06:32:31
R2-1817419	Consideration on Routing in IAB	ZTE	not treated	2018-11-01 12:05:05	2018-11-02 06:32:31
R2-1817420	Control plane signaling delivery in NSA deployment	ZTE	not treated	2018-11-01 12:07:05	2018-11-02 06:32:31
R2-1817421	Solutions for reliable IAB end-to-end transmission for the hop-by-hop RLC ARQ case	Samsung	not treated	2018-11-01 12:16:49	2018-11-01 12:39:05

R2-1817422	Correction on PDCP duplication option 2	Huawei,	revised	2018-11-01 12:21:56	2018-11-02 02:10:59
R2-1817423	Correction on flight path information	Hua	agreed	2018-11-01 12:21:57	2018-11-02 02:10:59
R2-1817424	Correction on measurement triggering based on number of cells	Huawei,	agreed	2018-11-01 12:21:58	2018-11-02 02:10:59
R2-1817425	Correction on triggering idle mode measurement	Hua	agreed	2018-11-01 12:21:59	2018-11-02 02:10:59
R2-1817426	SPS for TDD sTTI	Hua	agreed	2018-11-01 12:22:00	2018-11-02 02:10:59
R2-1817427	skipUplinkTxSPS for short TTI option 1	Huawei,	agreed	2018-11-01 12:22:01	2018-11-02 02:10:59
R2-1817428	correction on power control	Hua	agreed	2018-11-01 12:22:02	2018-11-02 02:10:59
R2-1817429	Clarification of primary and secondary RLC entity	Hua	noted	2018-11-01 12:22:02	2018-11-02 02:11:38
R2-1817430	Clarification of primary and secondary RLC entity	Hua	not treated	2018-11-01 12:22:02	2018-11-02 02:11:38
R2-1817431	Clarification of primary and secondary RLC entity	Hua	revised	2018-11-01 12:22:03	2018-11-02 02:11:38
R2-1817432	Clarification of primary and secondary RLC entity	Hua	not treated	2018-11-01 12:22:04	2018-11-02 02:11:38
R2-1817433	Correction on srb-ToAddModListDupl	Hua	not	2018-11-01 12:22:05	2018-11-02 02:11:38
R2-1817434	Clarification for cqi-ReportPeriodic	Hua	agreed	2018-11-01 12:22:06	2018-11-02 02:11:38
R2-1817435	Correction on T312 for measurement triggering based on number of cells	Huawei,	not pursued	2018-11-01 12:22:07	2018-11-02 02:11:38
R2-1817436	Correction on T312 for height event	Huawei,	not pursued	2018-11-01 12:22:08	2018-11-02 02:11:38
R2-1817437	Correction on T331 description	Hua	agreed	2018-11-01 12:22:09	2018-11-02 02:11:38
R2-1817438	Correction on validityArea description	Hua	agreed	2018-11-01 12:22:11	2018-11-02 02:11:38
R2-1817439	Reconfiguration of logical channel ID	Hua	not treated	2018-11-01 12:22:12	2018-11-02 02:12:02
R2-1817440	Correction on data forwarding	Hua	not treated	2018-11-01 12:22:14	2018-11-02 02:12:02
R2-1817441	Correction of BWP switching when SUL is configured	Huawei,	agreed	2018-11-01 12:25:17	2018-11-02 04:49:05
R2-1817442	Corrections on NUL and SUL descriptions	Huawei,	revised	2018-11-01 12:25:18	2018-11-02 04:49:05
R2-1817443	Corrections on the condition of SUL selection	Hua	not	2018-11-01 12:25:19	2018-11-02 04:49:05
R2-1817444	Corrections for alignments in RACH resource selection	Hua	revised	2018-11-01 12:25:21	2018-11-02 04:49:05
R2-1817445	Correction on the RA triggering with ongoing RA	Huawei,	merged	2018-11-01 12:25:22	2018-11-02 04:49:05
R2-1817446	Correction on the RO selection for PDCCH order triggered RA	Huawei,	revised	2018-11-01 12:25:23	2018-11-02 04:49:05
R2-1817447	Correction on stopping ra-ResponseWindow	Hua	not	2018-11-01 12:25:24	2018-11-02 04:49:05
R2-1817448	Corrections on the BFR parameters	Hua	not	2018-11-01 12:25:25	2018-11-02 04:49:05
R2-1817449	Options for LCH-to-Cell restriction in CA duplication	Hua	not treated	2018-11-01 12:25:26	2018-11-02 05:52:25
R2-1817450	Correction on LCH-to-Cell restriction lifting	Hua	not treated	2018-11-01 12:25:26	2018-11-02 05:52:25
R2-1817451	Correction on LCH-to-Cell restriction application	Hua	not treated	2018-11-01 12:25:27	2018-11-02 05:52:25
R2-1817452	Correction on the per SR configuration procedure	Hua	not	2018-11-01 12:25:28	2018-11-02 04:49:05
R2-1817453	Correction on BSR triggered SR	Huawei, HiSil	revised	2018-11-01 12:25:29	2018-11-02 04:49:05
R2-1817454	Correction on bitRateQueryProhibitTimer	Hua	not	2018-11-01 12:25:30	2018-11-02 04:49:05
R2-1817455	Corrections on SI request failure case	Hua	withdrawn	2018-11-01 12:25:31	2018-11-02 04:49:05
R2-1817456	On LCH-to-cell mapping restrictions for the CA duplication deactivation case	Samsung	not treated	2018-11-01 12:42:06	2018-11-01 13:05:49
R2-1817457	Correction to LCH to cell mapping restriction configuration	Samsung	not treated	2018-11-01 12:44:28	2018-11-01 13:05:49
R2-1817458	Introducing a NOTE covering LCH to cell mapping restriction configuration for the CA duplication case	Samsung	not treated	2018-11-01 12:46:58	2018-11-01 13:05:49
R2-1817459	AS-related group management for platooning	Huawei,	not treated	2018-11-01 12:50:19	2018-11-02 05:18:01
R2-1817460	Clarification on supported scenarios for NR V2X SI	Hua	withdrawn	2018-11-01 12:50:19	
R2-1817461	Disabling IncMon with EN-DC	Nokia,	noted	2018-11-01 12:56:50	2018-11-02 06:12:04
R2-1817462	Cell barring when UE doesn't support initial BWP bandwidth	Nokia,	not treated	2018-11-01 12:56:50	2018-11-02 06:12:04
R2-1817463	Correction to cell barring when UE doesn't support initial BWP bandwidth	Nokia,	not treated	2018-11-01 12:56:50	2018-11-02 06:12:04
R2-1817464	UE capability on PA architecture	Appl	revised	2018-11-01 13:06:44	2018-11-02 06:10:02
R2-1817465	UE capability on PA architecture	Appl	revised	2018-11-01 13:06:45	2018-11-02 06:10:02
R2-1817466	Support of Vulnerable Road User	Apple	not treated	2018-11-01 13:06:46	2018-11-02 06:10:02
R2-1817467	RRC Signaling Support over PC5	Apple Inc.	not treated	2018-11-01 13:06:46	2018-11-02 06:10:02

R2-1817468	QoS Handling in NR V2X	Appl	not treated	2018-11-01 13:06:46	2018-11-02 06:10:02
R2-1817469	Discussion on NR-U Cell Access Solution	Appl	not treated	2018-11-01 13:06:46	2018-11-02 06:10:02
R2-1817470	Considerations on UE Mobility in NR-U	Appl	not treated	2018-11-01 13:06:46	2018-11-02 06:47:10
R2-1817471	Considerations on NR-U Paging	Appl	not treated	2018-11-01 13:06:46	2018-11-02 06:47:10
R2-1817472	QoS Flow based Data Split between Licensed and Unlicensed Spectrum	Appl e Inc.	not treated	2018-11-01 13:06:46	2018-11-02 06:10:02
R2-1817473	RACH Enhancement in NR-U	Appl	not treated	2018-11-01 13:06:46	2018-11-02 06:10:02
R2-1817474	Improvements on HO Robustness in LTE	Appl	not treated	2018-11-01 13:06:46	2018-11-02 06:57:36
R2-1817475	Key Change in DC based HO	Appl e Inc.	not treated	2018-11-01 13:06:46	2018-11-02 06:10:02
R2-1817476	Correction to per-LCH SR masking description	Sam sung	merged	2018-11-01 13:07:31	2018-11-01 13:11:53
R2-1817477	Correction to logicalChannelSR-DelayTimer operation	Sam sung	not pursued	2018-11-01 13:14:20	2018-11-01 13:22:11
R2-1817478	CR for TS38.331 on MIB	Hua	agreed	2018-11-01 13:16:35	2018-11-02 05:10:34
R2-1817479	CR for TS38.331 on PDCCH-ConfigSIB	Hua	agreed	2018-11-01 13:16:36	2018-11-02 05:10:34
R2-1817480	Summary of 103bis#42NR L1 PUCCH resource	Hua	noted	2018-11-01 13:16:37	2018-11-07 09:56:57
R2-1817481	CR on PUCCH resource release	Hua	not	2018-11-01 13:16:37	2018-11-07 09:56:57
R2-1817482	Cell barring for not supporting bandwidth of the initial	Hua	not treated	2018-11-01 13:16:38	2018-11-02 05:10:34
R2-1817483	CR on cell barring for not supporting bandwidth of the initial UL BWP	Hua wei,	not treated	2018-11-01 13:16:38	2018-11-02 05:10:34
R2-1817484	CR on BWP ID	Hua	not treated	2018-11-01 13:16:39	2018-11-02 05:10:34
R2-1817485	CR on first Active BWPs for Scell	Hua	not	2018-11-01 13:16:40	2018-11-02 05:10:34
R2-1817486	CR on pdsch-TimeDomainAllocationList and pusch-TimeDomainAllocationList	Hua wei,	revised	2018-11-01 13:16:41	2018-11-02 05:10:34
R2-1817487	CR on the SSB based RACH configuration	Hua	revised	2018-11-01 13:16:42	2018-11-02 05:10:34
R2-1817488	CR on starting bit of Format 2-3	Hua	revised	2018-11-01 13:16:43	2018-11-02 05:10:34
R2-1817489	CR on dmrs-AdditionalPosition	Hua	not	2018-11-01 13:16:44	2018-11-02 05:10:34
R2-1817490	CR on DelayBudgetReport	Hua	not	2018-11-01 13:16:45	2018-11-02 05:10:34
R2-1817491	Correction on HARQ process ID for synchronous HARQ operation	Noki a,	revised	2018-11-01 13:20:10	2018-11-02 03:45:18
R2-1817492	Correction on power backoff indication due to Power management	Noki a, Noki	withdrawn	2018-11-01 13:20:11	
R2-1817493	Correction on Dual Connectivity MAC CE	Noki a, Noki	agreed	2018-11-01 13:20:12	2018-11-02 03:45:18
R2-1817494	PHR timing	Noki a, Noki	noted	2018-11-01 13:20:13	2018-11-02 03:45:18
R2-1817495	Clarfication on PHR timing	Noki a, Noki	revised	2018-11-01 13:20:13	2018-11-02 03:45:18
R2-1817496	LS to RAN1 on PHR timing	Noki	revised	2018-11-01 13:20:14	2018-11-02 03:45:18
R2-1817497	HARQ operation for SUO case 1	Noki a,	noted	2018-11-01 13:20:14	2018-11-02 03:45:18
R2-1817498	Clarification on HARQ RTT for SUO case 1	Noki a,	agreed	2018-11-01 13:20:14	2018-11-02 03:45:18
R2-1817499	Draft LS on UL HARQ RTT for SUO case 1	Noki	revised	2018-11-01 13:20:15	2018-11-02 03:45:18
R2-1817500	Determination of actual vs. virtual PHR for CA case	Leno vo,	not treated	2018-11-01 13:21:16	2018-11-01 14:55:15
R2-1817501	ANR Reporting Protocol for NB-IoT	Sequ ans	not treated	2018-11-01 13:21:28	2018-11-01 20:47:00
R2-1817502	Inter-RAT selection triggering for NB-IoT	Sequ ans	not treated	2018-11-01 13:23:18	2018-11-01 20:47:00
R2-1817503	Correction to determination of PH value type	Leno vo,	not treated	2018-11-01 13:24:28	2018-11-01 14:55:38
R2-1817504	Correction to SR triggering	Sam sung	revised	2018-11-01 13:25:13	2018-11-01 13:34:02
R2-1817505	Intra-UE DL/UL Prioritization	Leno vo,	not treated	2018-11-01 13:28:06	2018-11-01 14:55:55

R2-1817506	T302 timer exemption for MPS	Venc ore Labs, OEC	revised	2018-11-01 13:35:38	2018-11-02 01:30:06
R2-1817507	Collision between Configured and Dynamic grants	Hua	not treated	2018-11-01 13:40:27	2018-11-02 05:10:34
R2-1817508	Discussion on the Higher Layer Multi-Connectivity	Hua	noted	2018-11-01 13:40:31	2018-11-02 05:10:34
R2-1817509	Reply LS on redundant transmission for URLLC	Hua	revised	2018-11-01 13:40:31	2018-11-02 05:10:34
R2-1817510	PDCP Duplication with More than two RLC Channels	Hua	not treated	2018-11-01 13:40:31	2018-11-02 05:10:34
R2-1817511	General LCP enhancement for IIoT	Hua	not treated	2018-11-01 13:40:31	2018-11-02 05:10:34
R2-1817512	General enhancements for PDCP Duplication	Hua	not treated	2018-11-01 13:40:31	2018-11-02 05:10:34
R2-1817513	QoS Aspects for MR-DC and NR-DC	Hua wei,	not treated	2018-11-01 13:41:02	2018-11-02 04:12:42
R2-1817514	CR on QoS Aspects for MR-DC and NR-DC	Hua wei,	not treated	2018-11-01 13:41:02	2018-11-02 04:12:42
R2-1817515	In Order Delivery during QoS Flow Relocation in MR-DC	Hua wei,	not treated	2018-11-01 13:41:03	2018-11-02 04:12:42
R2-1817516	CR on SDAP entity release	Hua	not treated	2018-11-01 13:41:03	2018-11-02 04:12:42
R2-1817517	Wait timer in RRC release	Hua	not treated	2018-11-01 13:41:04	2018-11-02 04:12:42
R2-1817518	CR on wait timer in RRC release	Hua	revised	2018-11-01 13:41:04	2018-11-02 04:12:42
R2-1817519	Modelling of HARQ for SUO case 1	Medi	noted	2018-11-01 13:42:42	2018-11-01 14:08:01
R2-1817520	Topology in IAB system	Leno vo,	not treated	2018-11-01 13:42:44	2018-11-02 03:39:31
R2-1817521	Correction on interFreqNeighCellList	Noki a, Noki	revised	2018-11-01 13:43:03	2018-11-01 14:32:02
R2-1817522	RRC UE processing time for NR standalone	Erics	not treated	2018-11-01 13:47:05	2018-11-02 06:35:02
R2-1817523	RRC UE processing time for NR standalone	Erics	not treated	2018-11-01 13:47:05	2018-11-02 06:35:02
R2-1817524	RRC UE processing time for RRCResume	Erics	not treated	2018-11-01 13:47:06	2018-11-02 06:35:02
R2-1817525	RRC UE processing time for RRCResume	Erics	not treated	2018-11-01 13:47:06	2018-11-02 06:35:02
R2-1817526	Email discussion report [103bis21][NR]	Erics	noted	2018-11-01 13:47:07	2018-11-02 06:36:21
R2-1817527	Clarification on SupportedbandListNR	Erics	not treated	2018-11-01 13:47:07	2018-11-02 06:36:21
R2-1817528	Clarification on SupportedbandListNR	Erics	not treated	2018-11-01 13:47:08	2018-11-02 06:36:21
R2-1817529	Update on L2 capabilities	Erics	revised	2018-11-01 13:47:09	2018-11-02 06:36:21
R2-1817530	Update on L2 capabilities	Erics	revised	2018-11-01 13:47:10	2018-11-02 06:36:21
R2-1817531	Handover terminology clean-up	Erics son	not treated	2018-11-01 13:47:11	2018-11-02 06:36:21
R2-1817532	SCell release at RRC Reestablishment	Erics	revised	2018-11-01 13:47:12	2018-11-02 06:36:21
R2-1817533	Clean up of SRB1 terminology	Erics	revised	2018-11-01 13:47:13	2018-11-02 06:36:21
R2-1817534	Corrections on RRC transfer procedure in EN-DC	Erics son,	revised	2018-11-01 13:47:14	2018-11-02 06:36:21
R2-1817535	Corrections on radio link failure	Erics	not treated	2018-11-01 13:47:15	2018-11-09 08:09:37
R2-1817536	Correction on interFreqNeighCellList	Noki a, Noki	revised	2018-11-01 13:47:16	2018-11-01 14:32:02
R2-1817537	Correction on interFreqNeighCellList	Noki a, Noki	agreed	2018-11-01 13:50:23	2018-11-01 14:32:02
R2-1817538	Use of RSS for measurement improvements	Hua	noted	2018-11-01 13:53:08	2018-11-02 06:28:48
R2-1817539	draft LS on RSS based measurements signalling	Hua	revised	2018-11-01 13:53:08	2018-11-02 06:28:48
R2-1817540	Correction to CRS Muting Capability	Hua	agreed	2018-11-01 13:53:08	2018-11-02 06:28:48
R2-1817541	Paging with fractional nB value	Hua wei,	not treated	2018-11-01 13:53:10	2018-11-02 06:28:48
R2-1817542	Correction on dedicatedNAS-MessageList handling	Noki a,	not treated	2018-11-01 13:54:43	2018-11-01 14:32:02
R2-1817543	Which cell/IAB node support child IAB access	Leno vo,	not treated	2018-11-01 13:57:02	2018-11-02 03:39:31
R2-1817544	Wait timer in RRC Release	Noki a,	noted	2018-11-01 13:57:52	2018-11-01 14:32:02
R2-1817545	Introduction of wait time in RRC Release message	Noki a,	not treated	2018-11-01 14:01:47	2018-11-01 14:32:02
R2-1817546	Conditional handover in LTE system	Leno vo,	not treated	2018-11-01 14:01:51	2018-11-02 03:39:31
R2-1817547	CR on Handling CN Overload in eLTE	OPP	not treated	2018-11-01 14:04:34	2018-11-02 04:40:01

R2-1817548	RRC processing delay for RRC Resume	Nokia,	not treated	2018-11-01 14:07:10	2018-11-01 14:32:02
R2-1817549	Reporting of RA and RLF in NB-IOT SON	Lenovo,	not treated	2018-11-01 14:07:48	2018-11-02 03:39:10
R2-1817550	Introduction of Inter-RAT cell selection indication in	Erics	not treated	2018-11-01 14:08:54	2018-11-02 06:57:47
R2-1817551	Introduction of Inter-RAT cell selection indication in	Erics	not treated	2018-11-01 14:08:55	2018-11-02 06:57:47
R2-1817552	Introduction of Inter-RAT cell selection indication in	Erics	not treated	2018-11-01 14:08:56	2018-11-02 06:57:47
R2-1817553	IRAT Cell Selection for NB-IoT	Erics	not treated	2018-11-01 14:08:57	2018-11-02 06:57:47
R2-1817554	RSS for measurement improvements in LTE-MTC	Erics	noted	2018-11-01 14:08:57	2018-11-02 07:00:06
R2-1817555	Support of quality report in Msg3 for non-anchor access in NB-IoT	Ericsson	not treated	2018-11-01 14:08:57	2018-11-02 07:00:06
R2-1817556	Supporting Presence of NRS on a non-anchor carrier for paging in NB-IoT	Ericsson	not treated	2018-11-01 14:08:57	2018-11-02 07:00:06
R2-1817557	Support of quality report in Msg3 for MTC	Erics	not treated	2018-11-01 14:08:57	2018-11-02 07:00:06
R2-1817558	Discussion on UE reporting the SON parameters	Erics	noted	2018-11-01 14:08:57	2018-11-02 07:06:41
R2-1817559	Clarification on non-anchor carrier offset for TDD NB-IoT standalone mode	Ericsson	noted	2018-11-01 14:08:57	2018-11-02 07:04:40
R2-1817560	Introduction of processing delay requirements for RRC Resume procedure	Nokia,	not treated	2018-11-01 14:10:17	2018-11-01 14:32:02
R2-1817561	ANR procedure in NB-IOT	Lenovo,	not treated	2018-11-01 14:11:25	2018-11-02 03:39:10
R2-1817562	[Draft] Reply LS on Handling CN Overload in eLTE	OPPO	revised	2018-11-01 14:13:28	2018-11-02 04:40:01
R2-1817563	Consideration on RRC_INACTIVE state handling	Nokia,	not treated	2018-11-01 14:13:34	2018-11-01 14:32:02
R2-1817564	Consideration on wake up signal	Lenovo,	not treated	2018-11-01 14:15:20	2018-11-02 03:39:10
R2-1817565	RRC_INACTIVE state handling	Nokia,	not treated	2018-11-01 14:17:28	2018-11-01 14:32:02
R2-1817566	Correction on PHR for SUL	Hua	postponed	2018-11-01 14:29:56	2018-11-02 03:22:02
R2-1817567	Correction on PHR for PH type determination	Hua	not treated	2018-11-01 14:29:57	2018-11-02 03:22:16
R2-1817568	Corrections on the TCI State Indication for UE-specific PDCCH MAC CE	Huawei,	not pursued	2018-11-01 14:29:57	2018-11-02 03:22:16
R2-1817569	Correction on the size of PUCCH resource ID	Hua	revised	2018-11-01 14:29:58	2018-11-02 03:18:05
R2-1817570	Discussion on the scheduling enhancement to support IIoT traffic	Huawei,	not treated	2018-11-01 14:48:59	2018-11-01 23:44:38
R2-1817571	Small data burst calculation clarification and corrections	Ericsson,	agreed	2018-11-01 15:00:03	2018-11-02 07:10:06
R2-1817572	Discussion on the Ethernet header compression	Hua	not treated	2018-11-01 15:25:27	2018-11-01 23:44:38
R2-1817573	Consideration of RLF recovery in IAB	Kyoc	not treated	2018-11-01 15:33:58	2018-11-02 02:39:09
R2-1817574	SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information	Ericsson,	revised	2018-11-01 15:36:22	2018-11-02 07:09:13
R2-1817575	Connected mobility considerations for NR-U	Kyoc	not treated	2018-11-01 15:36:50	2018-11-02 02:39:09
R2-1817576	Reselection considerations for NR-U	Kyoc	not treated	2018-11-01 15:39:35	2018-11-02 02:39:09
R2-1817577	Correction of PDCP duplication	Ericsson	not pursued	2018-11-01 15:41:16	2018-11-01 20:42:19
R2-1817578	Considerations for Groupcast in NR V2X	Kyocera	not treated	2018-11-01 15:41:17	2018-11-02 02:39:09
R2-1817579	Email Discussion Report on [103b-41] Intra-UE Prioritization	Nokia,	noted	2018-11-01 15:42:39	2018-11-06 12:35:26
R2-1817580	LS Draft for Intra-UE Prioritization	Nokia,	revised	2018-11-01 15:42:47	2018-11-07 17:28:43
R2-1817581	TP on Intra-UE Prioritization Scenarios	Nokia,	revised	2018-11-01 15:42:47	2018-11-07 17:28:43
R2-1817582	Resource Efficient PDCP Duplication	Nokia,	not treated	2018-11-01 15:42:47	2018-11-01 17:59:06
R2-1817583	On PDCP Duplication Enhancements with Combination of DC and CA	Nokia,	not treated	2018-11-01 15:42:47	2018-11-01 17:59:06
R2-1817584	Discussion of Responses to SA2 LS on NRG Solutions	Nokia,	not treated	2018-11-01 15:42:47	2018-11-01 16:57:51
R2-1817585	Avoiding resource shortage due to introduction of positioning SIBs	Ericsson,	noted	2018-11-01 15:43:58	2018-11-02 07:09:13
R2-1817586	UE context handling during handover to NR	Erics	agreed	2018-11-01 15:51:22	2018-11-02 02:41:43
R2-1817587	UE context handling during handover to LTE-5GC	Erics	agreed	2018-11-01 15:51:23	2018-11-02 02:41:43
R2-1817588	Defining inter-system and intra-system handover	Erics	revised	2018-11-01 15:51:24	2018-11-02 02:41:42
R2-1817589	Measurement identities and reporting in NR-DC	Ericsson	not treated	2018-11-01 15:51:25	2018-11-02 02:41:42

R2-1817590	Measurement identities and reporting in NR-DC	Ericsson	noted	2018-11-01 15:51:25	2018-11-02 02:40:50
R2-1817591	Open issues on SCG measurement results and reporting for MR-DC	Ericsson	not treated	2018-11-01 15:51:27	2018-11-02 02:40:50
R2-1817592	SCG measurement results and reporting for MR-DC	Ericsson	not treated	2018-11-01 15:51:27	2018-11-02 02:40:50
R2-1817593	SCG measurement results and reporting for MR-DC	Ericsson	not treated	2018-11-01 15:51:28	2018-11-02 02:40:50
R2-1817594	SCG measurement results and reporting for NE-DC	Ericsson	not treated	2018-11-01 15:51:29	2018-11-02 02:40:50
R2-1817595	Correction of SN Initiated SN Modification procedure for Measurement Gap	Ericsson	revised	2018-11-01 15:51:30	2018-11-02 02:40:50
R2-1817596	Configuration of SCG during RRC Resume in NGEN-	Ericsson	not treated	2018-11-01 15:51:31	2018-11-02 02:40:50
R2-1817597	Integrity Check failure at RRC Re-establishment	Ericsson	revised	2018-11-01 15:51:32	2018-11-02 02:40:50
R2-1817598	Re-establishment causes in Msg3 and Msg5	Ericsson	not treated	2018-11-01 15:51:33	2018-11-02 02:40:50
R2-1817599	Re-establishment causes in Msg3 and Msg5	Ericsson	not treated	2018-11-01 15:51:33	2018-11-02 02:40:50
R2-1817600	RIL G301: SRB3 integrity protection failure handling	Ericsson	revised	2018-11-01 15:51:34	2018-11-02 02:40:50
R2-1817601	Correction to beam failure detection in Stage-2	Rapporteur	agreed	2018-11-01 15:52:52	2018-11-02 05:29:47
R2-1817602	Correction to BFR procedure	Nokia, CAT	agreed	2018-11-01 15:52:53	2018-11-02 05:29:47
R2-1817603	Correction to RA prioritization	Nokia,	revised	2018-11-01 15:52:54	2018-11-02 05:29:47
R2-1817604	BFR during DRX	Nokia,	not treated	2018-11-01 15:52:54	2018-11-02 05:29:47
R2-1817605	Correction to RA prioritization	Nokia,	revised	2018-11-01 15:52:54	
R2-1817606	Tracking Area considerations for NTN	Nokia,	noted	2018-11-01 15:52:55	2018-11-02 05:29:47
R2-1817607	CR for T312 on LTE HetNet mobility	Intel	revised	2018-11-01 15:59:03	2018-11-02 04:25:06
R2-1817608	Clarification on the absent of cellSelectionInfoCE in	Intel	not	2018-11-01 15:59:05	2018-11-02 04:25:06
R2-1817609	Correction on the use of PRACH resource pool for EDT	Intel	not	2018-11-01 15:59:06	2018-11-02 04:25:06
R2-1817610	Correction on the use of PRACH resource pool for EDT	Intel	not treated	2018-11-01 15:59:07	2018-11-02 04:25:06
R2-1817611	Mobile Terminated EDT for CP and UP solutions	Intel Corp	not treated	2018-11-01 15:59:07	2018-11-02 04:25:06
R2-1817612	Support of ETWS/CMAS for non-BL UE operating in	Intel	not treated	2018-11-01 15:59:07	2018-11-02 04:25:06
R2-1817613	DL Quality reporting in Msg3	Intel	not treated	2018-11-01 15:59:07	2018-11-02 04:25:06
R2-1817614	Mode-3 sensing and reporting capability for eV2X	Intel Corp	merged	2018-11-01 15:59:07	2018-11-02 04:25:06
R2-1817615	Mode-3 sensing and reporting capability for eV2X	Intel Corp	merged	2018-11-01 15:59:08	2018-11-02 04:25:06
R2-1817616	Discovery and measurements for IAB	Nokia,	not treated	2018-11-01 16:02:47	2018-11-01 16:06:56
R2-1817617	Resource allocation and coordination for IAB	Nokia,	not treated	2018-11-01 16:02:47	2018-11-01 16:06:56
R2-1817618	Report of [103bis#11][NR] Late drop 36.331 CR	Samsung	noted	2018-11-01 16:04:18	2018-11-02 08:31:22
R2-1817619	Introducing NR changes for late drop	Samsung	endorsed	2018-11-01 16:04:18	2018-11-02 08:31:44
R2-1817620	Introducing procedure for reporting RLC failures	Samsung	agreed	2018-11-01 16:04:22	2018-11-02 07:08:08
R2-1817621	Corrections regarding RLC failure reporting	Samsung	agreed	2018-11-01 16:04:23	2018-11-02 07:08:08
R2-1817622	Some NR SA related corrections	Samsung	reserved	2018-11-01 16:04:24	
R2-1817623	Correction to RA prioritization	Nokia,	not pursued	2018-11-01 16:08:16	2018-11-02 05:29:47
R2-1817624	Description of beam-based transmission of SSB	ZTE Corp	not treated	2018-11-01 16:34:02	2018-11-02 03:38:59
R2-1817625	Triggering conditions for A1-A6 events in NR	Ericsson	not treated	2018-11-01 16:37:04	2018-11-02 05:01:50
R2-1817626	Measurement priority handling in NR	Ericsson	not treated	2018-11-01 16:37:04	2018-11-02 05:01:50

R2-1817627	Triggering of L3 filtered beam measurements	Ericsson	not treated	2018-11-01 16:37:04	2018-11-02 05:01:50
R2-1817628	s-Measure configuration and UE behaviour	Ericsson	not treated	2018-11-01 16:37:04	2018-11-02 05:01:50
R2-1817629	SSBurst and SSB relations in 38.300	Ericsson	not treated	2018-11-01 16:37:04	2018-11-02 05:42:35
R2-1817630	Measurement related actions upon handover and re-establishment	Ericsson	not treated	2018-11-01 16:37:04	2018-11-02 05:01:51
R2-1817631	On MeasSubframePatternNeigh in measObjectEUTRA in NR	Ericsson	not treated	2018-11-01 16:37:04	2018-11-02 05:01:50
R2-1817632	Introduction of motion sensors in 38.305	Erics	not	2018-11-01 16:42:59	2018-11-02 07:09:13
R2-1817633	Discussion on processing Delay Requirements for RRC Procedures in NR	Huawei,	not treated	2018-11-01 16:43:18	2018-11-01 18:59:33
R2-1817634	Further consideration on UE-group wake-up signal	ZTE Corp	not treated	2018-11-01 16:46:25	2018-11-02 05:44:30
R2-1817635	Introduction of motion sensors in 36.305	Erics	noted	2018-11-01 16:46:32	2018-11-02 07:09:13
R2-1817636	CR on 38.331 to capture processing delay requirements	Hua	not treated	2018-11-01 16:48:06	2018-11-01 18:59:33
R2-1817637	Sub-group ID calculation based on UE_ID for UE-group WUS	ZTE Corp	not treated	2018-11-01 16:49:20	2018-11-02 05:49:25
R2-1817638	Further consideration on inter-RAT cell selection for	ZTE	not treated	2018-11-01 16:53:31	2018-11-02 05:23:17
R2-1817639	CR on s-Measure	Ericsson	not treated	2018-11-01 16:57:04	2018-11-02 05:01:50
R2-1817640	Considerations on NR Positioning Protocol	ESA, u-	not treated	2018-11-01 16:59:17	2018-11-01 17:40:30
R2-1817641	CR on s-measure to 38.306	Ericsson	not treated	2018-11-01 17:00:39	2018-11-02 05:01:50
R2-1817642	Text Proposal for section 7.2 of TR 38.855	ESA, u-	not treated	2018-11-01 17:01:43	2018-11-01 17:34:55
R2-1817643	SSBurst and SSB relations in 38.300	Ericsson	revised	2018-11-01 17:02:46	2018-11-02 05:01:50
R2-1817644	Text Proposal for UE Radio Capability Signaling Size Analysis	Huawei,	not treated	2018-11-01 17:09:05	2018-11-01 18:59:33
R2-1817645	CR on s-Measure	Ericsson	not treated	2018-11-01 17:09:38	2018-11-02 05:01:50
R2-1817646	Estimation of UE radio capabilities size	HUAWEI	not treated	2018-11-01 17:11:34	2018-11-01 18:59:33
R2-1817647	CR on s-measure to 36.306	Ericsson	not treated	2018-11-01 17:11:36	2018-11-02 05:01:50
R2-1817648	Segmentation of UE Radio Capability information	Huawei,	not treated	2018-11-01 17:28:22	2018-11-01 18:59:33
R2-1817649	Corrections to System Information	Huawei,	agreed	2018-11-01 17:32:56	2018-11-02 06:46:10
R2-1817650	Correction to SI provision in connected mode	Hua	agreed	2018-11-01 17:32:57	2018-11-02 06:46:10
R2-1817651	Corrections to the field decriptions of System	Hua	agreed	2018-11-01 17:32:58	2018-11-02 06:46:10
R2-1817652	Correction for monitoring occasion in SI window	Huawei,	merged	2018-11-01 17:32:59	2018-11-02 06:46:10
R2-1817653	Corrections on SI request random access failure case	Hua	not treated	2018-11-01 17:33:00	2018-11-02 06:46:10
R2-1817654	Issue with on-demand resource update without	Hua	not treated	2018-11-01 17:33:01	2018-11-02 06:46:10
R2-1817655	Correction to on-demand resource update without	Hua	not	2018-11-01 17:33:01	2018-11-02 06:46:10
R2-1817656	Correction to cell reselection during SI request	Hua	not treated	2018-11-01 17:33:01	2018-11-02 06:46:10
R2-1817657	Clarification on termination of SI request procedure	Hua	not treated	2018-11-01 17:33:02	2018-11-02 06:46:10
R2-1817658	Clarification on reacquistion of SIB1	Hua	not	2018-11-01 17:33:03	2018-11-02 06:46:10
R2-1817659	Correction to SI message acquisition timing	Hua	revised	2018-11-01 17:33:04	2018-11-02 06:46:10
R2-1817660	Correction to RRC state applicability for SI request	Hua	not	2018-11-01 17:33:05	2018-11-02 06:46:10
R2-1817661	Clarification on final suitability check	Hua	revised	2018-11-01 17:33:06	2018-11-02 06:46:10
R2-1817662	Clarification of mobility state detection criteria	Hua	agreed	2018-11-01 17:33:07	2018-11-02 06:46:10
R2-1817663	Discussion on cell selection in case of state transition from RRC_INACTIVE	Huawei,	not treated	2018-11-01 17:33:08	2018-11-02 06:46:10
R2-1817664	Correction to cell selection in case of state transition from RRC_INACTIVE	Huawei,	not pursued	2018-11-01 17:33:08	2018-11-02 06:46:10
R2-1817665	Stage 2 Correction on Mobility in RRC_IDLE	Hua	agreed	2018-11-01 17:33:09	2018-11-02 06:46:10
R2-1817666	Discussion on cell selection in case of state transition to RRC_INACTIVE	Huawei,	noted	2018-11-01 17:33:10	2018-11-02 06:46:10
R2-1817667	Correction to cell selection in case of state transition to RRC_INACTIVE	Huawei,	not pursued	2018-11-01 17:33:10	2018-11-02 06:46:10
R2-1817668	Correction to Mobility in RRC_INACTIVE	Hua	not	2018-11-01 17:33:11	2018-11-02 06:46:10

R2-1817669	Cell reselection with FR1 cells and FR2 cells on the same priority	Huawei,	not treated	2018-11-01 17:33:12	2018-11-02 06:46:10
R2-1817670	Correction to cell reselection in multi-beam scenario	Hua	not treated	2018-11-01 17:33:12	2018-11-02 06:46:10
R2-1817671	Consideration on cell access barring alleviation in cell reselection	Huawei,	noted	2018-11-01 17:33:13	2018-11-02 06:46:10
R2-1817672	Correction to cell access barring alleviation in cell	Hua	revised	2018-11-01 17:33:13	2018-11-02 06:46:10
R2-1817673	Add t-ReselectionNR-SF in SIB2	Hua	agreed	2018-11-01 17:33:14	2018-11-02 06:46:10
R2-1817674	freqBandIndicatorNR correction in MultiFrequencyBandListNR-SIB	Huawei,	agreed	2018-11-01 17:33:15	2018-11-02 06:46:10
R2-1817675	Corrections to CellSelectionInfo in SIB1	Hua	revised	2018-11-01 17:33:16	2018-11-02 06:46:10
R2-1817676	Key aspects and signalling procedure for UE capability ID report	Huawei	not treated	2018-11-01 17:35:23	2018-11-01 18:59:33
R2-1817677	Additional aspects for UE capability report	Huawei	not treated	2018-11-01 17:39:36	2018-11-01 18:59:33
R2-1817678	On the smtc restrictions in NR measurement objects	Nokia,	not treated	2018-11-01 17:45:42	2018-11-01 22:58:04
R2-1817679	A3 and A5 corrections - neighbouring cell definition	Nokia,	agreed	2018-11-01 17:45:42	2018-11-01 22:58:05
R2-1817680	NR Sidelink resource allocation for V2X communications	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817681	Discussion on Connection-based versus Connectionless NR Sidelink	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817682	Mobility challenges for NR V2X platooning	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817683	Various approaches to SL QoS support in NR V2X	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817684	Cross-RAT V2X support	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817685	On the scope of mobility robustness	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817686	Baseline of Conditional Handover and its optional enhancements	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817687	Performance of Conditional Handover – simulation results	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817688	Considerations for failure recovery in LTE	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817689	On enhancing the mobility of E-UTRA connected to 5GC	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817690	Split bearer solution for reducing the service interruption time in HO	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817691	Non-split bearer solution for reducing the service interruption time in HO	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817692	Alternative eMBB handover procedure with close-to-zero ms interruption	Nokia,	not treated	2018-11-01 17:45:43	2018-11-01 22:58:05
R2-1817693	Disabling IncMon with EN-DC	Nokia,	revised	2018-11-01 17:49:29	2018-11-02 06:12:04
R2-1817694	Corrections on CFRA BFR termination	Inter	agreed	2018-11-01 17:59:00	2018-11-01 23:43:44
R2-1817695	Correction on firstPDCCH-MonitoringOccasionOfPO	Futurewei	not pursued	2018-11-01 18:03:01	2018-11-02 03:14:12
R2-1817696	Draft response LS on Location Service exposure to NG-	Intel	not treated	2018-11-01 18:06:46	2018-11-02 05:39:56
R2-1817697	Downlink Flow Control and Congestion Control for IAB	Intel	not treated	2018-11-01 18:06:46	2018-11-02 05:39:56
R2-1817698	Uplink Flow Control and Congestion Control for IAB	Intel Corp	not treated	2018-11-01 18:06:46	2018-11-02 05:39:56
R2-1817699	Route Adaptation Upon Backhaul Failure	Intel	revised	2018-11-01 18:06:46	2018-11-02 05:39:56
R2-1817700	Uplink Latency in IAB networks	Intel	not treated	2018-11-01 18:06:46	2018-11-02 05:39:56
R2-1817701	Correction on the field description of DRX timers	Intel Corp	agreed	2018-11-01 18:06:46	2018-11-02 05:39:56
R2-1817702	Correction on DC subcarrier usage in SetupComplete message	Intel Corp	revised	2018-11-01 18:06:47	2018-11-02 05:39:56
R2-1817703	Stage 2 CR on Measurement gap configuration	Intel	revised	2018-11-01 18:06:49	2018-11-02 05:39:56
R2-1817704	Stage 2 CR on Measurement gap configuration	Intel	revised	2018-11-01 18:06:50	2018-11-02 05:39:56
R2-1817705	CRs on clarification of field descriptions for NR	Intel	revised	2018-11-01 18:06:51	2018-11-02 05:39:56
R2-1817706	CR on signaling contiguous EN-DC capability	Intel	revised	2018-11-01 18:06:52	2018-11-02 05:39:56
R2-1817707	CR on signaling contiguous EN-DC capability	Intel	revised	2018-11-01 18:06:54	2018-11-02 05:39:56
R2-1817708	Stage 2 CR on Measurement gap configuration	Intel	revised	2018-11-01 18:06:57	2018-11-02 05:39:56
R2-1817709	ss-PBCH-power-offset defintion correction based on	Intel	not treated	2018-11-01 18:06:58	2018-11-02 05:39:56

R2-1817710	Correction on the usage of the allowed monitoring periodicities and symbols for DCI 2_0	Intel Corp	not pursued	2018-11-01 18:06:59	2018-11-02 05:39:56
R2-1817711	Discussion on some FFS aspects of UE capability ID based capability	Intel Corp	not treated	2018-11-01 18:07:00	2018-11-02 05:39:56
R2-1817712	Discussion on compression and segmentation usage for RRC messages	Intel Corp	not treated	2018-11-01 18:07:00	2018-11-02 05:39:56
R2-1817713	Update of UE capabilities	Intel	revised	2018-11-01 18:07:00	2018-11-21 06:18:02
R2-1817714	CR on 38.304 corrections	Intel	revised	2018-11-01 18:07:01	2018-11-02 05:39:56
R2-1817715	Update of the usage of QCL type-C	Intel	agreed	2018-11-01 18:07:02	2018-11-02 05:39:56
R2-1817716	Text proposal for Route Adaptation Upon Backhaul	Intel	not treated	2018-11-01 18:07:03	2018-11-02 05:39:56
R2-1817717	LTE RRC configuration for NE-DC	Intel	not treated	2018-11-01 18:07:03	2018-11-02 05:39:56
R2-1817718	LTE Cell information request via NR E-CID	Ericsson	noted	2018-11-01 18:08:18	2018-11-02 06:55:21
R2-1817719	Request to retrieve LTE cell information including SFN as part of the E-CID procedure	Ericsson	not treated	2018-11-01 18:08:18	2018-11-02 06:55:21
R2-1817720	Supporting LTE cell information requestion in LPP E-CID for NA SA devices	Ericsson	not treated	2018-11-01 18:08:19	2018-11-02 06:55:21
R2-1817721	draft LS on introduction of an LTE cell information request as part of LPP E-CID	Ericsson	not treated	2018-11-01 18:08:20	2018-11-02 06:55:21
R2-1817722	Discussion on PF formula	Futurewei	not treated	2018-11-01 18:16:26	2018-11-02 03:14:12
R2-1817723	Study on enhancement to the 5GC location services	Ericsson	not treated	2018-11-01 18:17:38	2018-11-02 06:55:21
R2-1817724	Discussion on Use cases for Location Aware Functionality in RAN	Ericsson	noted	2018-11-01 18:23:22	2018-11-02 06:55:21
R2-1817725	Correction concerning IDC reporting	Samsung	revised	2018-11-01 18:24:21	2018-11-02 07:08:08
R2-1817726	Bandwidth for IDC reporting with NR	Samsung	not treated	2018-11-01 18:24:23	2018-11-02 07:08:08
R2-1817727	Simplified UE assistance information for NR overheating	Samsung	reserved	2018-11-01 18:24:23	
R2-1817728	ASN.1 review of late drop	Samsung	not treated	2018-11-01 18:24:23	2018-11-21 06:18:02
R2-1817729	Remaining issues for feature set reporting with Alt3 of eMail 23	Samsung	not treated	2018-11-01 18:24:23	2018-11-02 08:09:50
R2-1817730	NR DC UE capabilities - CA/ DC differences	Samsung	not treated	2018-11-01 18:24:23	2018-11-02 08:09:50
R2-1817731	Late drop 36.331 CR - issues remaining from eMail 11	Samsung	noted	2018-11-01 18:24:23	2018-11-08 10:51:31
R2-1817732	CR on PF formula	Futurewei	not pursued	2018-11-01 18:25:39	2018-11-02 03:14:12
R2-1817733	Discussion on positioning assistance data broadcast	Ericsson	not treated	2018-11-01 18:26:43	2018-11-02 06:55:21
R2-1817734	[DRAFT] Reply LS on Location Service exposure to NG-	Ericsson	revised	2018-11-01 18:31:36	2018-11-02 06:55:21
R2-1817735	38.331 CR on derivation of N for paging	Futurewei	not pursued	2018-11-01 18:32:33	2018-11-02 03:14:12
R2-1817736	RAT independent and hybrid NR positioning solutions	Ericsson	not treated	2018-11-01 18:38:02	2018-11-02 06:55:21
R2-1817737	Idle mode positioning solutions	Ericsson	not treated	2018-11-01 18:41:59	2018-11-02 06:55:21
R2-1817738	38.304 CR on derivation of N for paging	Hua	agreed	2018-11-01 18:42:20	2018-11-02 03:14:12
R2-1817739	RAT dependent NR positioning solutions	Ericsson	not treated	2018-11-01 18:44:34	2018-11-02 06:55:21
R2-1817740	Miscellaneous minor corrections	Ericsson	revised	2018-11-01 19:01:54	2018-11-02 00:16:47
R2-1817741	Cleanup of references to L1 specifications	Ericsson	revised	2018-11-01 19:01:58	2018-11-02 00:16:47
R2-1817742	Correction of MeasResultEUTRA	Ericsson	revised	2018-11-01 19:02:00	2018-11-02 00:16:47
R2-1817743	Missing need code for refFreqCSI-RS	Ericsson	revised	2018-11-01 19:02:01	2018-11-02 00:16:47
R2-1817744	Missing procedure text in RRC Reconfiguration	Ericsson	revised	2018-11-01 19:02:01	2018-11-02 00:16:47
R2-1817745	Clarifications on RNA update and CN registration (N023)	Ericsson	agreed	2018-11-01 19:02:02	2018-11-02 00:16:47
R2-1817746	Invalidation of L1 parameter nrofCQIsPerReport	Ericsson	agreed	2018-11-01 19:02:03	2018-11-02 00:16:47
R2-1817747	Inability to comply with RRCReconfiguration in MR-DC	Ericsson	not treated	2018-11-01 19:07:18	2018-11-01 19:37:39
R2-1817748	Support for inter-system MR DC HO (37.340)	Ericsson	revised	2018-11-01 19:07:19	2018-11-01 19:37:40
R2-1817749	Support for inter-system MR-DC HO	Ericsson	revised	2018-11-01 19:07:19	2018-11-01 19:37:40
R2-1817750	On DRX for NTN	Ericsson	not treated	2018-11-01 19:31:15	2018-11-02 04:57:05
R2-1817751	Tracking area management and update for NTN	Ericsson	not treated	2018-11-01 19:31:15	2018-11-02 04:57:05

R2-1817752	Mobility aspects for NTN NR	Ericsson	not treated	2018-11-01 19:31:15	2018-11-02 04:57:05
R2-1817753	Requirements for NTN NR	Ericsson	not treated	2018-11-01 19:31:15	2018-11-02 04:57:05
R2-1817754	Report of email discussion [103bis#34] [NR - NTN]	Ericsson	noted	2018-11-01 19:31:15	2018-11-02 04:57:05
R2-1817755	Correction on RNAU access category	Futurewei	merged	2018-11-01 19:32:12	2018-11-02 03:14:37
R2-1817756	TP for 2-step RACH in NR-U	Qualcomm Incorporat	revised	2018-11-01 19:35:06	2018-11-02 05:31:56
R2-1817757	NR-NTN: HARQ in Satellite Systems	Fraunhofe	noted	2018-11-01 19:40:08	2018-11-01 19:50:53
R2-1817758	Further details on RACH for NR-U	Qualcom	revised	2018-11-01 19:50:49	2018-11-02 05:31:56
R2-1817759	Idle/Inactive mode issues for NR-U	Qualcom	revised	2018-11-01 19:57:37	2018-11-02 05:31:56
R2-1817760	Use of LTE control channel region for DL transmission	ZTE	not treated	2018-11-01 20:12:32	2018-11-02 06:44:11
R2-1817761	QOS parameter monitoring	Lenovo,	not treated	2018-11-01 20:19:41	2018-11-01 20:38:11
R2-1817762	Reply LS on QoS Monitoring	Lenovo,	not treated	2018-11-01 20:24:36	2018-11-01 20:38:11
R2-1817763	Impacts of propagation delay on control plane	Ericsson	not treated	2018-11-01 20:26:01	2018-11-01 21:52:06
R2-1817764	On HARQ for NTN	Ericsson	noted	2018-11-01 20:26:01	2018-11-01 21:52:06
R2-1817765	On random access for NTN	Ericsson	noted	2018-11-01 20:26:01	2018-11-01 21:52:06
R2-1817766	PDCP for NTN	Ericsson	not treated	2018-11-01 20:26:01	2018-11-01 21:52:06
R2-1817767	RLC for NTN	Ericsson	not treated	2018-11-01 20:26:01	2018-11-01 21:52:06
R2-1817768	UE minimum RAT capability in NR V2X	Lenovo,	not treated	2018-11-01 20:27:30	2018-11-01 20:38:11
R2-1817769	Comparison of Consolidated Unified Design Examples for Architecture 1a	AT&T	noted	2018-11-01 20:30:46	2018-11-02 02:27:19
R2-1817770	Multi-Connectivity scenarios for Vehicle to Everything	AT&	not treated	2018-11-01 20:30:46	2018-11-02 02:27:19
R2-1817771	UE minimum RF capability in NR V2X	Lenovo,	not treated	2018-11-01 20:30:56	2018-11-01 20:38:11
R2-1817772	Correction of UE capability for eV2X in TS 36.306	Qualcom	agreed	2018-11-01 20:36:09	2018-11-02 02:25:47
R2-1817773	Resource Pool Aspects for NR V2X	Inter	not treated	2018-11-01 20:37:16	2018-11-02 03:07:08
R2-1817774	Removal of redefinition of MCS-PSSCH-Range-r15	Qualcom	agreed	2018-11-01 20:38:58	2018-11-02 02:25:47
R2-1817775	Route selection method for architecture 1a	Huawei	not treated	2018-11-01 20:41:21	2018-11-02 03:07:12
R2-1817776	Discussion on QoS design for NR PC5 communication	Qualcom	not treated	2018-11-01 20:43:54	2018-11-02 02:25:47
R2-1817777	Diversity in RACH transmissions	Lenovo,	not treated	2018-11-01 20:45:35	2018-11-01 20:47:37
R2-1817778	Support for inter-system MR DC HO (37.340)	Ericsson	not treated	2018-11-01 20:47:20	2018-11-01 20:56:01
R2-1817779	Support for inter-system MR-DC HO	Ericsson	not treated	2018-11-01 20:47:21	2018-11-01 20:56:01
R2-1817780	Discussion on Groupcast for NR V2X	Qualcom	not treated	2018-11-01 20:48:26	2018-11-02 02:25:47
R2-1817781	Draft LS for inclusion of Receive Only Mode MBMS service parameters in USD	Qualcom	revised	2018-11-01 20:51:07	2018-11-02 00:00:44
R2-1817782	Further consideration on MPDCCH performance improvement in eMTC	ZTE Corp	noted	2018-11-01 20:52:20	2018-11-02 06:45:58
R2-1817783	Discussion on connection setup for V2X unicast communication	Qualcom	not treated	2018-11-01 20:53:08	2018-11-02 02:25:47
R2-1817784	Further consideration on RLF and ANR report	ZTE	not treated	2018-11-01 20:55:46	2018-11-02 06:20:28
R2-1817785	RAT and interface selection for NR V2X sidelink communication	Qualcom	not treated	2018-11-01 20:58:14	2018-11-02 02:25:47
R2-1817786	Cross-RAT configuration and control of LTE/NR Sidelink communication	Qualcom	not treated	2018-11-01 21:02:17	2018-11-02 02:25:47
R2-1817787	MBMS reception in Receive Only Mode	Qualcom	revised	2018-11-01 21:04:30	2018-11-02 00:00:44

R2-1817788	MBMS reception in Receive Only Mode	Qualcom	revised	2018-11-01 21:08:34	2018-11-02 00:00:44
R2-1817789	Clarification on the security for MR-DC under 5GC	Huawei,	not treated	2018-11-01 21:10:15	2018-11-01 21:45:37
R2-1817790	DRAFT reply LS on Dual Connectivity	Hua	not treated	2018-11-01 21:10:15	2018-11-01 21:45:37
R2-1817791	details on RRC procedures for NE-DC	Hua	not treated	2018-11-01 21:10:15	2018-11-01 21:45:37
R2-1817792	CR on RRC procedures for NE-DC	Hua	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817793	Discussion on the UL path of split SRB in EN-DC	Hua	withdrawn	2018-11-01 21:10:16	
R2-1817794	CR on 36.331 on SCG failure in NE-DC	Hua	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817795	CR on 38.331 on SCG failure in NE-DC	Hua	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817796	Inter-node messages for NE-DC	Hua	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817797	CR on 36.331 for inter-node messages for NE-DC	Hua	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817798	Handling of SN terminated bearer upon resume procedures	Huawei,	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817799	CR on 38.331 for B events in NE-DC	Huawei,	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817800	CR on 38.331 on measurement Aspects for NR-DC	Huawei,	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817801	User plane integrity protection check failure handling in SCG for NR-NR DC	Huawei,	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817802	Stage 2 CR UP IP check failure handling in SCG for NR-NR DC	Huawei,	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817803	CR on 38.331 to support UP IP check failure report	Hua	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817804	discussion on the ambiguity issue for CSI-RS measurement results	Huawei,	not treated	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817805	Clarification on the candidateCellInfoListNR in RRM-	Hua	revised	2018-11-01 21:10:16	2018-11-01 21:45:37
R2-1817806	Restore CN Overload Control capability with Option 5 enabled eNB	VODAFO	not treated	2018-11-01 21:10:23	2018-11-01 21:21:16
R2-1817807	Consideration on necessary information for RACH	ZTE	not treated	2018-11-01 21:14:26	2018-11-02 06:26:58
R2-1817808	Network management tool related measurement report procedure	ZTE Corp	not treated	2018-11-01 21:16:44	2018-11-02 06:19:27
R2-1817809	Harmonizing UP alternatives for architecture group 1a	Ericsson,	not treated	2018-11-01 21:19:30	2018-11-02 02:49:43
R2-1817810	Network Assistance for UE Idle Mode Mobility between NB-IoT and LTE, eMTC, GERAN	Qualcom	noted	2018-11-01 21:19:35	2018-11-02 00:00:44
R2-1817811	Key metrics analysis for LTE HO architecture solution discussion	Qualcom	not treated	2018-11-01 21:22:42	2018-11-02 00:00:44
R2-1817812	Consideration on accurate reference timing delivery in TSN for NR-IIoT	ZTE Corp	not treated	2018-11-01 21:26:20	2018-11-02 07:10:12
R2-1817813	LTE Mobility Enhancements	Qualcom	not treated	2018-11-01 21:26:55	2018-11-02 00:00:44
R2-1817814	Discussion on reassembly function for architecture 1a	Futurewei	not treated	2018-11-01 21:28:11	2018-11-02 03:07:12
R2-1817815	Consideration on QoS enhancements when using TSN for NR-IIoT	ZTE Corp	not treated	2018-11-01 21:28:41	2018-11-02 07:11:20
R2-1817816	Bandwidth configuration for initial BWP	Erics	agreed	2018-11-01 21:33:32	2018-11-01 22:01:59
R2-1817817	Clarification on ssb-PositionsInBurst	Erics	agreed	2018-11-01 21:33:33	2018-11-01 22:01:59
R2-1817818	Correction to commonControlResourceSet	Erics	revised	2018-11-01 21:33:34	2018-11-01 22:01:59
R2-1817819	Correction to TDD configuration in SIB1	Erics	revised	2018-11-01 21:33:34	2018-11-01 22:01:59
R2-1817820	Clarification on handling of default parameters	Erics	revised	2018-11-01 21:33:35	2018-11-01 22:08:03
R2-1817821	[103bis-23] Relation of feature sets and band	Erics	noted	2018-11-01 21:33:36	2018-11-01 22:42:06
R2-1817822	Correction to UE capability procedures in 36.331	Erics	withdrawn	2018-11-01 21:33:37	
R2-1817823	Correction to UE capability procedures in 38.331	Erics	revised	2018-11-01 21:33:37	2018-11-01 22:42:06
R2-1817824	Correction to aperiodicTriggeringOffset	Erics	revised	2018-11-01 21:33:38	2018-11-01 22:20:29
R2-1817825	Correction to QCL restrictions	Erics	not treated	2018-11-01 21:33:39	2018-11-01 22:20:29
R2-1817826	Clarification to L1 data rate formula in 38.306	Erics	not	2018-11-01 21:33:40	2018-11-01 22:23:55
R2-1817827	Draft reply LS on network synchronization for handover purposes	Ericsson	not treated	2018-11-01 21:33:41	2018-11-01 22:08:03
R2-1817828	Clarification on hopping parameters for PUSCH	Erics	postponed	2018-11-01 21:33:41	2018-11-01 22:20:29
R2-1817829	LTE Mobility Robustness Enhancements	Qualcom	not treated	2018-11-01 21:35:00	2018-11-02 00:00:44
R2-1817830	Way Forward on Adaptation Layer Placement for IAB Network	Ericsson, AT&T, KDD	not treated	2018-11-01 21:42:12	2018-11-01 23:19:00

R2-1817831	Correction of CN type indication for RRC Redirection from E-UTRA/5GC to E-UTRA/5GC or E-UTRAN	Qualcom	agreed	2018-11-01 21:42:57	2018-11-02 00:00:44
R2-1817832	Clarification on the TCI state of PDCCH at handover	Intel	not	2018-11-01 21:43:52	2018-11-02 05:39:56
R2-1817833	Clarification for the implementation of UE feature list item 6-1 (BWP op1)	Intel Corp	revised	2018-11-01 21:43:53	2018-11-02 05:39:56
R2-1817834	CRs on clarification of field descriptions for NR	Intel	revised	2018-11-01 21:43:54	2018-11-02 05:39:56
R2-1817835	Correction of aperiodic-CSI triggering offset value	Intel	not treated	2018-11-01 21:43:55	2018-11-02 05:39:56
R2-1817836	CP signalling transmission in IAB NSA	Futurewei	not treated	2018-11-01 21:44:41	2018-11-02 03:07:12
R2-1817837	Correction to UE capability procedures in 36.331	Erics	revised	2018-11-01 21:45:45	2018-11-01 22:42:06
R2-1817838	Alignment of IE/field names between LPP and RRC specifications	Qualcom	agreed	2018-11-01 21:48:57	2018-11-02 06:09:34
R2-1817839	Capture signalling flows where the last serving gNB moves the UE to RRC_IDLE	Huawei,	agreed	2018-11-01 21:49:00	2018-11-01 23:24:52
R2-1817840	Corrections to the applicability of 38.331 to EN-DC	Hua	revised	2018-11-01 21:49:01	2018-11-01 23:24:52
R2-1817841	Correction for handover failure (T304 expiry or Inability to comply with RRCReconfiguration)	Huawei,	not pursued	2018-11-01 21:49:02	2018-11-01 23:24:52
R2-1817842	Discussion on error and key handling on UE for Reestablishment Procedure in case of N2 handover	Huawei,	noted	2018-11-01 21:49:03	2018-11-01 23:24:52
R2-1817843	Correction for restablishment to the target cell	Hua	not	2018-11-01 21:49:03	2018-11-01 23:24:52
R2-1817844	Correction to the description of ShortMAC-I	Hua	not treated	2018-11-01 21:49:04	2018-11-01 23:24:52
R2-1817845	CR on CGI reporting	Hua	revised	2018-11-01 21:49:05	2018-11-01 23:24:52
R2-1817846	CR on MeasurementTimingConfiguration	Hua	revised	2018-11-01 21:49:06	2018-11-01 23:24:52
R2-1817847	Adding PCI information in	Hua	not treated	2018-11-01 21:49:07	2018-11-01 23:24:52
R2-1817848	CR to 38.331 on adding PCI information in MeasurementTimingConfiguration	Huawei,	not treated	2018-11-01 21:49:07	2018-11-01 23:24:52
R2-1817849	Reply LS on measurement of different SSBs with different PCIs within the same NCGI	Huawei,	not treated	2018-11-01 21:49:07	2018-11-01 23:24:52
R2-1817850	CR to 38.331 on ambiguity about SpCell in Event A3 and A5 for NR-DC	Huawei,	not treated	2018-11-01 21:49:07	2018-11-01 23:24:52
R2-1817851	CR to 36.331 on inapplicability of NR SpCell in Event A3/A5 for EN-DC	Huawei,	not pursued	2018-11-01 21:49:07	2018-11-01 23:24:52
R2-1817852	CR to 36.331 on reporting of NR serving frequencies which the UE is not configured to measure	Huawei,	agreed	2018-11-01 21:49:08	2018-11-01 23:24:52
R2-1817853	CR to 38.331 on trigger quantities	Hua	not treated	2018-11-01 21:49:09	2018-11-01 23:24:52
R2-1817854	CR to 38.331 on including serving cell measurements	Hua	revised	2018-11-01 21:49:10	2018-11-01 23:24:52
R2-1817855	CR to 38.331 on single SCS for a given SSB frequency	Hua	not treated	2018-11-01 21:49:11	2018-11-01 23:24:52
R2-1817856	CR to 38.331 on associatedSSB	Hua	revised	2018-11-01 21:49:12	2018-11-01 23:24:52
R2-1817857	Discussion on measurement related actions upon handover and re-establishment	Huawei,	not treated	2018-11-01 21:49:13	2018-11-01 23:24:52
R2-1817858	CR on measurement related actions upon handover and re-establishment	Huawei,	revised	2018-11-01 21:49:13	2018-11-01 23:24:52
R2-1817859	Correction on cell sorting for periodical measurement reporting	Huawei,	agreed	2018-11-01 21:49:13	2018-11-01 23:24:52
R2-1817860	CR on 38.331 for RRCResumeRequest and RRCResumeRequest1	Huawei,	merged	2018-11-01 21:49:14	2018-11-01 23:24:52
R2-1817861	Clarification on the smtc signalled for intra-NR handover, PSCell change or SCell addition	Huawei,	agreed	2018-11-01 21:49:15	2018-11-01 23:24:52
R2-1817862	CR on fallback to the setup procedure	Hua	agreed	2018-11-01 21:49:16	2018-11-01 23:24:52
R2-1817863	RRC connection release triggered by upper layers	Hua	agreed	2018-11-01 21:49:17	2018-11-01 23:24:52
R2-1817864	Correction of frequency band indication in	Hua	agreed	2018-11-01 21:49:18	2018-11-01 23:24:52
R2-1817865	Correction to configuration of measurement object	Hua	revised	2018-11-01 21:49:19	2018-11-01 23:24:52
R2-1817866	CR on threshold description for cell quality derivation	Hua	agreed	2018-11-01 21:49:20	2018-11-01 23:24:52
R2-1817867	CR to avoid unnecessary L3 filtered beam	Hua	agreed	2018-11-01 21:49:21	2018-11-01 23:24:52
R2-1817868	CR on ssb-ToMeasure in	Hua	agreed	2018-11-01 21:49:23	2018-11-01 23:24:52
R2-1817869	Corrections on the stop condition of T380	Hua	not	2018-11-01 21:49:23	2018-11-01 23:24:52
R2-1817870	Corrections on handling of suspendConfig	Hua	not	2018-11-01 21:49:24	2018-11-01 23:24:52
R2-1817871	Clarification on the protection of RRCResumeRequest1	Hua	revised	2018-11-01 21:49:25	2018-11-01 23:24:52
R2-1817872	[103bis#17][NR] NR serving cell measurements	Huawei, HiSil	noted	2018-11-01 21:49:26	2018-11-01 23:24:52
R2-1817873	CR to 38.331 on NR serving cell measurements	Huawei, HiSil	revised	2018-11-01 21:49:26	2018-11-01 23:24:52

R2-1817874	[103bis#19][NR] Sorting of NR cells in measurement reports in LTE	Huawei, HiSilicon	noted	2018-11-01 21:49:27	2018-11-01 23:24:52
R2-1817875	Correction on sorting for reporting of NR cell measurements	Huawei, HiSilicon	withdrawn	2018-11-01 21:49:27	
R2-1817876	Discussion on MeasReportQuantity configuration for beam and cell sorting	Huawei,	not treated	2018-11-01 21:49:28	2018-11-01 23:24:52
R2-1817877	Clarification on reportQuantityRsIndexes and reportQuantityCell configuration	Huawei,	not pursued	2018-11-01 21:49:28	2018-11-01 23:24:52
R2-1817878	Clarification on reportQuantityRS-IndexNR and reportQuantityCellNR configuration	Huawei,	not pursued	2018-11-01 21:49:29	2018-11-01 23:24:52
R2-1817879	Correction on measurement reporting after SCG failure happened	Huawei,	not pursued	2018-11-01 21:49:30	2018-11-01 23:24:52
R2-1817880	Discussion on security algorithm negotiation issue for Resume, RNAU and Reestablishment	Huawei,	not treated	2018-11-01 21:49:32	2018-11-01 23:24:52
R2-1817881	Introduction of algorithm in RRCRelease	Hua	not treated	2018-11-01 21:49:32	2018-11-01 23:24:52
R2-1817882	Introduction of algorithm in RRCReestablishment	Hua	not treated	2018-11-01 21:49:33	2018-11-01 23:24:52
R2-1817883	CR on security negotiation for resume procedure	Hua	not treated	2018-11-01 21:49:34	2018-11-01 23:24:52
R2-1817884	Discussion on measObject swapping upon handover	Hua	not treated	2018-11-01 21:49:35	2018-11-01 23:24:52
R2-1817885	Ensuring that all candidate cells for handovers are	Hua	not treated	2018-11-01 21:49:35	2018-11-01 23:24:52
R2-1817886	CR on reporting measurement results of cells within x dB of best triggered cell	Huawei,	not treated	2018-11-01 21:49:35	2018-11-01 23:24:52
R2-1817887	Removal of measurement reporting entries upon modification of measurement object or report	Huawei,	not treated	2018-11-01 21:49:36	2018-11-01 23:24:52
R2-1817888	CR on unnecessary removing measurement reporting	Hua	not treated	2018-11-01 21:49:36	2018-11-01 23:24:52
R2-1817889	Applicability of s-measure in NR	Hua	not treated	2018-11-01 21:49:37	2018-11-01 23:24:52
R2-1817890	CR to 38.331 for applicability of s-Measure in NR	Hua	not treated	2018-11-01 21:49:37	2018-11-01 23:24:52
R2-1817891	Applicability of s-measure in LTE	Hua	not treated	2018-11-01 21:49:38	2018-11-01 23:24:52
R2-1817892	CR to 36.331 for applicability of s-Measure in LTE	Hua	not treated	2018-11-01 21:49:38	2018-11-01 23:24:52
R2-1817893	Measurement Gap Capability Feedback	Hua	not treated	2018-11-01 21:49:39	2018-11-01 23:24:52
R2-1817894	Clarifications on system information acquisition time enhancements in Rel-15	Ericsson	agreed	2018-11-01 21:50:15	2018-11-02 04:33:37
R2-1817895	Support for quality report in Msg3 for non-anchor access in NB-IoT	ZTE Corp	noted	2018-11-01 21:51:17	2018-11-02 04:33:22
R2-1817896	Addition of TDD UL/DL configuration to OTDOA assistance data	Qualcom	agreed	2018-11-01 21:52:03	2018-11-02 06:09:34
R2-1817897	Addition of RTK Assistance Data	Qualcom	agreed	2018-11-01 21:57:13	2018-11-02 06:09:34
R2-1817898	NG-RAN Positioning Architecture and Procedures	Qualcom	not treated	2018-11-01 22:00:31	2018-11-02 06:09:34
R2-1817899	Combined Downlink and Uplink NR Positioning Procedures	Qualcom	not treated	2018-11-01 22:01:57	2018-11-02 06:09:34
R2-1817900	LPP Alternatives for NR Positioning	Qualcom	not treated	2018-11-01 22:03:36	2018-11-02 06:09:34
R2-1817901	Broadcast of Location Assistance Data by NG-RAN	Qualcom	not treated	2018-11-01 22:05:19	2018-11-02 06:09:34
R2-1817902	On Demand Transmission of PRS for NR	Qualcom	not treated	2018-11-01 22:06:40	2018-11-02 06:09:34
R2-1817903	Support of LTE Access over NR backhaul in Architecture 1a	Futurewei	not treated	2018-11-01 22:07:34	2018-11-02 04:49:05
R2-1817904	Use of channel9022 occupancy metric for cell reselection in NR-U	InterDigital, Inc., Charter	noted	2018-11-01 22:16:35	2018-11-02 00:06:33
R2-1817905	Correction to MAC PDU subheaders including eLCID	Qualcom	agreed	2018-11-01 22:25:03	2018-11-01 22:42:09
R2-1817906	IAB bearer mapping decisions	Huawei	not treated	2018-11-01 22:36:37	2018-11-02 03:07:12
R2-1817907	Overview of the requirements and the study scope for R16 IIOT	Huawei,	noted	2018-11-01 22:38:00	2018-11-01 23:44:38

R2-1817908	RACH report enhancements for SON	Qualcom	not treated	2018-11-01 22:44:04	2018-11-02 03:57:35
R2-1817909	Correction on sorting for reporting of NR cell measurements	Huawei, HiSilicon	revised	2018-11-01 22:45:01	2018-11-01 23:24:52
R2-1817910	MT-initiated DL EDT	Qualcom	not treated	2018-11-01 22:45:17	2018-11-02 03:57:35
R2-1817911	Supporting UL data transmission on preconfigured resources in IDLE	Qualcom	not treated	2018-11-01 22:46:24	2018-11-02 03:57:35
R2-1817912	Clarification of the values for RangeToBestCell	Qualcom	revised	2018-11-01 22:51:17	2018-11-02 05:31:56
R2-1817913	RoHC based Header Compression for Ethernet	Qualcom	not treated	2018-11-01 22:56:56	2018-11-02 01:36:55
R2-1817914	Time Synchronization for TSN	Qualcom	not treated	2018-11-01 22:58:13	2018-11-02 01:35:43
R2-1817915	Security codepoints for NGEN-DC	Ericsson	not treated	2018-11-01 23:07:19	2018-11-02 02:40:50
R2-1817916	Way Forward on RLC termination	Ericsson, AT&T, KDDI	noted	2018-11-01 23:07:20	2018-11-02 02:49:43
R2-1817917	Using NDS for IAB_NB	Ericsson	not treated	2018-11-01 23:07:20	2018-11-02 02:49:43
R2-1817918	Triggers for abortion of RRC establishment	Ericsson	agreed	2018-11-01 23:08:12	2018-11-02 00:07:03
R2-1817919	Clarification on handling of default parameters	Ericsson	withdrawn	2018-11-01 23:08:13	2018-11-02 00:07:03
R2-1817920	Clarifications on RNA update and CN registration	Ericsson	withdrawn	2018-11-01 23:08:14	2018-11-02 00:07:03
R2-1817921	Procedures for full config at RRC Resume (38.331)	Ericsson	withdrawn	2018-11-01 23:08:15	2018-11-02 00:07:03
R2-1817922	E573 Configuration of SRB1 during Resume	Ericsson	agreed	2018-11-01 23:08:15	2018-11-02 00:07:03
R2-1817923	Discussion about the SA2 LS on support for low latency and low jitter at handover	Ericsson	not treated	2018-11-01 23:08:16	2018-11-01 23:18:16
R2-1817924	QoS principles	Ericsson	not treated	2018-11-01 23:09:07	2018-11-01 23:42:12
R2-1817925	On NR sidelink admission control	Ericsson	not treated	2018-11-01 23:09:07	2018-11-01 23:42:12
R2-1817926	On NR sidelink radio bearer	Ericsson	not treated	2018-11-01 23:09:07	2018-11-01 23:42:12
R2-1817927	On sidelink discovery	Ericsson	not treated	2018-11-01 23:09:07	2018-11-01 23:42:12
R2-1817928	On the sidelink session and connection	Ericsson	not treated	2018-11-01 23:09:07	2018-11-01 23:42:12
R2-1817929	Interface and RAT selection	Ericsson	not treated	2018-11-01 23:09:07	2018-11-01 23:42:12
R2-1817930	Extension of overheating indication parameters	Ericsson	revised	2018-11-01 23:22:19	2018-11-01 23:39:32
R2-1817931	QoS parameters for IAB QoS handling	Huawei	revised	2018-11-01 23:28:21	2018-11-02 03:07:12
R2-1817932	Key aspects of UE Capability ID handling	VODAFO	not treated	2018-11-01 23:31:11	2018-11-01 23:33:44
R2-1817933	Introducing issues for NR-U Idle mode operation	Sam	not treated	2018-11-01 23:50:44	2018-11-02 00:14:29
R2-1817934	On indicating LBT failure for NR-U	Sam	not treated	2018-11-01 23:52:28	2018-11-02 00:14:29
R2-1817935	Supporting Inter-frequency Redistribution for NR-U	Sam	noted	2018-11-01 23:55:14	2018-11-02 00:14:29
R2-1817936	Power backoff issue in single entry PHR MAC CE	Qualcom	not treated	2018-11-01 23:58:05	2018-11-02 02:41:53
R2-1817937	Supporting ETWS/CMAS reception in Connected mode	Sam	not treated	2018-11-01 23:58:58	2018-11-02 00:14:29
R2-1817938	Introducing FR indication for overheating mitigation	Sam	not treated	2018-11-02 00:02:27	2018-11-02 00:14:29
R2-1817939	LTE Access Impact on UP architectures	Sequans	reserved	2018-11-02 00:06:16	
R2-1817940	Pre-configured UL Resources Design Considerations	Sierr	not treated	2018-11-02 00:18:33	2018-11-02 00:20:32
R2-1817941	Clarification to Mode-3 Procedures	Ericsson	revised	2018-11-02 00:19:43	2018-11-02 01:24:44
R2-1817942	Clarification to Sidelink PDCP Duplication	Ericsson	revised	2018-11-02 00:19:44	2018-11-02 01:24:44
R2-1817943	Clarification to TX Carrier (re)-Selection for V2X Sidelink Communication	Ericsson	revised	2018-11-02 00:19:45	2018-11-02 01:24:44
R2-1817944	MAC Impact of UE Capability Limitation in TX Carrier Selection – Option 1	Ericsson	not treated	2018-11-02 00:19:46	2018-11-02 01:24:44
R2-1817945	MAC Impact of UE Capability Limitation in TX Carrier Selection – Option 2	Ericsson	not treated	2018-11-02 00:19:47	2018-11-02 01:24:44
R2-1817946	Clarification to Sensing Report	Ericsson	noted	2018-11-02 00:19:48	2018-11-02 01:24:44
R2-1817947	Analysis of NR Uu features for eV2X	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817948	Bandwidth parts and Resource Pools for NR V2X	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817949	gNB-scheduled Resource Allocation for Sidelink	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44

R2-1817950	Mode-1 Implications for Supporting SL HARQ/CSI feedbacks	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817951	On Inter-RAT Network Control of Sidelink	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817952	On L2 IDs	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817953	On Latency of mode-1 Sidelink Scheduling	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817954	On Sidelink UE Information	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817955	Resource allocation for Enhanced Mobility	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817956	Support of Unicast/Groupcast/Broadcast Sidelink V2X Communications	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817957	On the Support of HARQ/CSI feedbacks Over Sidelink	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817958	Consideration on NR V2X sidelink MAC protocol stack	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817959	Consideration on NR V2X sidelink PDCP protocol stack	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817960	Consideration on NR V2X sidelink RLC protocol stack	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817961	NR V2X sidelink protocol stack overview	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817962	Additional paging transmission opportunities in NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817963	BSR/PHR report for NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817964	Coexistence Between Configured and Dynamically Scheduled UL Grants	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817965	Discussions on channel access priority in NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817966	Discussions on RACH enhancements for NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817967	DRX enhancement for NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817968	Handling of RA counters and timers in NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817969	Handling LBT failures	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817970	MAC Impact with Multiple Active BWPs	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817971	Managing PCI collisions in NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817972	On Autonomous UL Transmissions for NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817973	RRM framework in NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817974	Scheduling request for NR-U	Ericsson	noted	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817975	Discussions on wideband operation and bandwidth part	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817976	Dedicated RRC signaling for request and delivery of on-demand SI in NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817977	Extended, overlapping SI-windows in NR-U	Ericsson	noted	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817978	How to handle failure to transmit SI update notification in NR-U	Ericsson	noted	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817979	Indication of duration of broadcast of requested on-demand SI in NR-U	Ericsson	not treated	2018-11-02 00:19:49	2018-11-02 01:24:44
R2-1817980	Missing procedure text in RRC Reconfiguration	Ericsson,	revised	2018-11-02 00:23:56	2018-11-02 01:02:59
R2-1817981	R2-1817981 CR to 38.331 on pendingRnaUpdate setting	Ericsson	agreed	2018-11-02 00:31:15	2018-11-02 02:13:50
R2-1817982	RAN Aspects on changes of the UE radio capabilities	Ericsson	not treated	2018-11-02 00:31:17	2018-11-02 02:13:50
R2-1817983	Draft LS on security aspects of various capability ID solution	Ericsson	not treated	2018-11-02 00:31:17	2018-11-02 02:13:50
R2-1817984	Further aspects of Capability ID signaling options	Ericsson	not treated	2018-11-02 00:31:17	2018-11-02 02:13:50
R2-1817985	Security Aspects of various SA2 Capability ID Solutions	Ericsson	not treated	2018-11-02 00:31:17	2018-11-02 02:13:50
R2-1817986	Draft LS to SA2 on security aspects of various Capability ID solutions	Ericsson	not treated	2018-11-02 00:31:17	2018-11-02 02:13:50
R2-1817987	CR on the carrier selection for random access	ITRI, Rapp	revised	2018-11-02 00:32:42	2018-11-02 05:17:03
R2-1817988	CR on handling of timer T380	ITRI	revised	2018-11-02 00:32:43	2018-11-02 05:17:03
R2-1817989	Discussion on UE behavior when failed of SI reception	ITRI	not treated	2018-11-02 00:32:44	2018-11-02 05:17:03
R2-1817990	Service Interruption Minimization during Topology	ITRI	not treated	2018-11-02 00:32:44	2018-11-02 05:17:03
R2-1817991	Discussion on the bearer type negotiation for MR-DC with 5GC	Huawei,	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1817992	Discussion on SFTD measurements for late drop	Huawei,	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28

R2-1817993	Draft CR on supporting SFTD mesurements for NE-DC	Huawei,	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1817994	Discussion on the release and addition for NGEN-DC and NE-DC	Huawei,	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1817995	Draft CR on release and addition for NGEN-DC	Huawei,	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1817996	Draft CR on release and addition for NE-DC	Huawei,	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1817997	Draft CR on release and addition for NE-DC	Huawei,	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1817998	Discussion on support of single UL transmission for NE-	Hua	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1817999	Draft CR on support single UL transmission for NE-DC	Hua	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1818000	Draft CR on support single UL transmission for NE-DC	Hua	not treated	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1818001	Summary of E-mail discussion [103bis#26][NR/Late drop] NE DC capability parameters	Huawei,	noted	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1818002	Draft CR on supporting NE-DC specific UE capabilities	Huawei,	agreed	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1818003	Correction on the allowedBC-ListMRDC	Hua	agreed	2018-11-02 00:48:17	2018-11-02 06:23:28
R2-1818004	CR on support of inter-band EN-DC UL power control	Hua	not treated	2018-11-02 00:48:18	2018-11-02 06:23:28
R2-1818005	Draft CR on support RLC failure report for NE-DC	Hua	not treated	2018-11-02 00:48:19	2018-11-02 06:23:28
R2-1818006	Draft CR on support RLC failure report for NE-DC	Hua	not treated	2018-11-02 00:48:19	2018-11-02 06:23:28
R2-1818007	Consideration on measurements defined in TS 28.552	Hua	not treated	2018-11-02 00:48:19	2018-11-02 06:23:28
R2-1818008	Considerations on measurements for different network deployment options	Huawei,	not treated	2018-11-02 00:48:19	2018-11-02 06:23:28
R2-1818009	Draft LS on measurements for different network deployment options	Huawei,	not treated	2018-11-02 00:48:19	2018-11-02 06:23:28
R2-1818010	Consideration on signalling only connection	Hua	noted	2018-11-02 00:48:19	2018-11-02 06:23:28
R2-1818011	CR on supporting sgnalling only connection	Hua	revised	2018-11-02 00:48:19	2018-11-02 06:23:28
R2-1818012	CR on supporting sgnalling only connection	Hua	not treated	2018-11-02 00:48:20	2018-11-02 06:23:28
R2-1818013	CR on correction of T300 expiry	Hua	not	2018-11-02 00:48:21	2018-11-02 06:23:28
R2-1818014	Discussion on extending re-establishment causes	Hua	not treated	2018-11-02 00:48:22	2018-11-02 06:23:28
R2-1818015	Redirection related UE capabilities for mobility and LTE-	Hua	revised	2018-11-02 00:48:22	2018-11-02 06:23:28
R2-1818016	Email discussion report on SRS switching capability	Hua	noted	2018-11-02 00:48:22	2018-11-02 06:23:28
R2-1818017	CR on introducing SRS carrier switching capability	Hua	revised	2018-11-02 00:48:22	2018-11-02 06:23:28
R2-1818018	CR on introducing SRS carrier switching capability	Hua	revised	2018-11-02 00:48:23	2018-11-02 06:23:28
R2-1818019	Corrections for T300 expiry	Hua	withdrawn	2018-11-02 00:48:25	
R2-1818020	Corrections for Timer for delay budget reporting	Hua	withdrawn	2018-11-02 00:48:26	2018-11-02 06:23:28
R2-1818021	CR to mandate FGI 103 and 104	Hua	revised	2018-11-02 00:50:36	2018-11-02 06:57:37
R2-1818022	Stage2 Corrections on UE capability	Huawei,	agreed	2018-11-02 00:52:16	2018-11-02 03:44:28
R2-1818023	Introdcution of including EUTRA UE capability for MRDC usage	Huawei,	agreed	2018-11-02 00:52:17	2018-11-02 03:44:28
R2-1818024	Clarification on physical layer parameters of UE	Hua	revised	2018-11-02 00:52:18	2018-11-02 03:44:28
R2-1818025	CR on parallel transmission capability	Hua	not	2018-11-02 00:52:19	2018-11-02 03:44:28
R2-1818026	Discussion on EN-DC contiguous and non-contiguous signalling	Huawei,	not treated	2018-11-02 00:52:19	2018-11-02 03:44:28
R2-1818027	Signalling introduction of EN-DC contiguous and non-contiguous	Huawei,	not treated	2018-11-02 00:52:19	2018-11-02 03:44:28
R2-1818028	Introduction of EN-DC contiguous and non-contiguous	Hua	not treated	2018-11-02 00:52:20	2018-11-02 03:44:28
R2-1818029	Avoiding duplication BCs report in NR SA and MR-DC	Hua	noted	2018-11-02 00:52:21	2018-11-02 03:44:28
R2-1818030	Avoiding duplication BCs report in LTE SA capability and MR-DC	Huawei,	not treated	2018-11-02 00:52:21	2018-11-02 03:44:28
R2-1818031	Email discussion report on [103bis#16][NR]	Hua	noted	2018-11-02 00:52:22	2018-11-02 06:39:54
R2-1818032	CR on signalling introduction of UE overheating support in NR SA scenario	Huawei,	revised	2018-11-02 00:52:22	2018-11-02 06:39:54
R2-1818033	CR on introduction of UE overheating support in NR SA scenario	Huawei,	revised	2018-11-02 00:52:23	2018-11-02 06:39:54
R2-1818034	LS on UE overheating assistance information in NR SA	Hua	not treated	2018-11-02 00:52:24	2018-11-02 03:44:28
R2-1818035	UE overheating support for late drop	Huawei,	not treated	2018-11-02 00:52:24	2018-11-02 03:44:28
R2-1818036	CR on UE overheating support for NGEN-DC	Huawei,	not treated	2018-11-02 00:52:24	2018-11-02 03:44:28
R2-1818037	CR on UE overheating support for NE-DC and NR-NR DC	Huawei,	not treated	2018-11-02 00:52:25	2018-11-02 03:44:28
R2-1818038	Introduction of IDC mechanism for late drop	Huawei,	not treated	2018-11-02 00:52:25	2018-11-02 03:44:28

R2-1818039	UE capability on SRS antenna switching	Hua	noted	2018-11-02 00:52:25	2018-11-02 03:44:28
R2-1818040	CR on SRS anttena switch	Hua	revised	2018-11-02 00:52:25	2018-11-02 03:44:28
R2-1818041	Missing optionality bit in CG-ConfigInfo	Ericsson,	revised	2018-11-02 00:52:49	2018-11-02 01:02:59
R2-1818042	Correction on power backoff indication due to Power management	Nokia, Noki	revised	2018-11-02 01:05:52	2018-11-02 03:45:18
R2-1818043	Correction to offsetToPointA	Hua	revised	2018-11-02 01:06:38	2018-11-02 06:46:10
R2-1818044	Correction to cell selection parameters	Hua	agreed	2018-11-02 01:06:39	2018-11-02 06:46:10
R2-1818045	Correction to p-Max field description	Hua	not	2018-11-02 01:06:40	2018-11-02 06:46:10
R2-1818046	Conditional Make-Before-Break Handover	ETRI	not treated	2018-11-02 01:15:06	2018-11-02 01:49:32
R2-1818047	Considerations on Conditional Handover	ETRI	not treated	2018-11-02 01:15:06	2018-11-02 01:49:32
R2-1818048	Simulation Results on Conditional Handover	ETRI	noted	2018-11-02 01:15:06	2018-11-02 01:49:32
R2-1818049	TTT in Conditional Handover	ETRI	not treated	2018-11-02 01:15:06	2018-11-02 01:49:32
R2-1818050	Satellite Ephemeris Data and their Use for Handoff Decisions between Satellites	HUGHES Network Systems	noted	2018-11-02 01:16:43	2018-11-02 21:56:29
R2-1818051	Discussion on MT EDT options	LG Elect	not treated	2018-11-02 01:20:18	2018-11-02 04:28:41
R2-1818052	Support for shared preconfigured resources in	LG	not treated	2018-11-02 01:20:18	2018-11-02 04:28:41
R2-1818053	Discussion on transmission in preconfigured resources in RRC_IDLE	LG Elect	not treated	2018-11-02 01:20:18	2018-11-02 04:28:41
R2-1818054	MT EDT using Msg4	LG Elect	not treated	2018-11-02 01:20:18	2018-11-02 04:28:41
R2-1818055	Clarification on LCH-to-cell restriction for PDCP	LG	not treated	2018-11-02 01:21:20	2018-11-02 04:57:20
R2-1818056	Clarification on LCH-to-cell restriction for PDCP	LG	not treated	2018-11-02 01:21:20	2018-11-02 04:57:20
R2-1818057	Ambiguity of POLL_SN update timing	LG	not treated	2018-11-02 01:21:22	2018-11-02 04:57:20
R2-1818058	Ambiguity of POLL_SN update timing	LG	revised	2018-11-02 01:21:22	2018-11-02 04:57:20
R2-1818059	Further consideration on uplink data congestion	LG	not treated	2018-11-02 01:21:23	2018-11-02 04:57:20
R2-1818060	Further consideration on downlink data congestion	LG	not treated	2018-11-02 01:21:23	2018-11-02 04:57:20
R2-1818061	Consideration on disorder of data arriving at the PDCP layer in IAB	LG Elect	not treated	2018-11-02 01:21:23	2018-11-02 04:57:20
R2-1818062	Consideration on SN length for multi-hop RLC ARQ	LG	not treated	2018-11-02 01:21:23	2018-11-02 04:57:20
R2-1818063	Correction to RLM on SSB associated to the initial	Sam	not treated	2018-11-02 01:22:56	2018-11-02 02:09:44
R2-1818064	Correction to description of parameter CarrierFreq	Sam	revised	2018-11-02 01:22:57	2018-11-02 02:09:44
R2-1818065	Discussion on Ambiguous UE behavior with respect to Cell Ranking	Samsung	not treated	2018-11-02 01:22:58	2018-11-02 02:09:44
R2-1818066	Correction to Ambiguous UE behavior with respect to Cell Ranking_Solution 1	Samsung	not treated	2018-11-02 01:22:58	2018-11-02 02:09:44
R2-1818067	Correction to Ambiguous UE behavior with respect to Cell Ranking_Solution 2	Samsung	not treated	2018-11-02 01:22:59	2018-11-02 02:09:44
R2-1818068	Discussion on multiple active BWP support in NR-U	Sam	not treated	2018-11-02 01:22:59	2018-11-02 04:01:18
R2-1818069	Discussion on connected mode RRM measurement framework in NR-U	Samsung	noted	2018-11-02 01:22:59	2018-11-02 04:01:18
R2-1818070	Discussion to support IDC indication in NR-U	Sam	not treated	2018-11-02 01:22:59	2018-11-02 04:01:18
R2-1818071	Some considerations about flow control for IAB networks	Huawei	not treated	2018-11-02 01:23:05	2018-11-02 03:07:12
R2-1818072	Corrections on time reference information	Hua	agreed	2018-11-02 01:26:34	2018-11-02 02:31:44
R2-1818073	Correction on UE behaviour about referenceSFN	Hua	agreed	2018-11-02 01:26:35	2018-11-02 02:31:44
R2-1818074	Corrections to TS 36.304 for E-UTRA connected to 5GC	Huawei,	revised	2018-11-02 01:26:36	2018-11-02 02:31:31
R2-1818075	Corrections for E-UTRA connected to 5GC	Huawei,	agreed	2018-11-02 01:26:37	2018-11-02 02:31:31
R2-1818076	Corrections on handover for E-UTRA connected to 5GC	Huawei,	revised	2018-11-02 01:26:39	2018-11-02 02:31:31
R2-1818077	Performance evaluations of eMBB solution	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:31
R2-1818078	Details of eMBB solution	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:31
R2-1818079	Performance evaluations of DC-based handover solution	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:31
R2-1818080	Details of DC-based handover solution	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:09

R2-1818081	Performance evaluations of Pre-Condition based handover solution	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:09
R2-1818082	Details of Pre-Condition based handover solution	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:09
R2-1818083	Comparison of Pre-Condition based handover solution and existing means	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:09
R2-1818084	PDCP duplication for improving robustness	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:09
R2-1818085	Considerations on LTE-5GC for feMob	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:31:09
R2-1818086	[DRAFT] LS on the scope of the WI feMob	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:30:47
R2-1818087	Enhancements to RACH-less solution	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:30:47
R2-1818088	Summary of candidate solutions	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:30:47
R2-1818089	Considerations on failure handlings	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:30:47
R2-1818090	RAN2 impacts due to RAN4 and RAN1 feedbacks	Huawei,	not treated	2018-11-02 01:26:40	2018-11-02 02:30:47
R2-1818091	Correction on UERadioPagingInformation for LTE-5GC	Huawei,	not pursued	2018-11-02 01:26:40	2018-11-02 02:30:47
R2-1818092	Discussion on RRC establishment cause for LTE-5GC	Huawei,	noted	2018-11-02 01:26:41	2018-11-02 02:30:25
R2-1818093	Correction on the usage of delayTolerantAcess	Huawei,	agreed	2018-11-02 01:26:41	2018-11-02 02:30:25
R2-1818094	Correction to full configuration for LTE-5GC	Huawei,	not treated	2018-11-02 01:26:42	2018-11-02 02:30:25
R2-1818095	Considerations on scheduling and overload issues for LTE-5GC	Huawei,	not treated	2018-11-02 01:26:43	2018-11-02 02:30:25
R2-1818096	Clarification on UE behavior after handover failure	Huawei,	postponed	2018-11-02 01:26:45	2018-11-02 02:30:25
R2-1818097	Clarification on Security Handling during RRC reestablishment due to N2 Handover Failure	Huawei,	not pursued	2018-11-02 01:26:46	2018-11-02 02:30:25
R2-1818098	2-Step CBRA procedure for NR-U	LG	not treated	2018-11-02 01:28:22	2018-11-02 05:33:04
R2-1818099	pCR IAB_Arch_recommnedation(1a,1b and 2a)	KDD	not treated	2018-11-02 01:29:41	2018-11-02 01:31:54
R2-1818100	Enhanced RACH procedure for NR-U	LG	not treated	2018-11-02 01:30:22	2018-11-02 05:33:04
R2-1818101	Prioritize CG transmission over SR/RA procedure	LG	not treated	2018-11-02 01:35:59	2018-11-02 05:33:04
R2-1818102	Correction to PDCP statusReportRequired	LG	withdrawn	2018-11-02 01:36:50	2018-11-02 01:50:24
R2-1818103	Introducing PDCP suspend procedure	LG	withdrawn	2018-11-02 01:36:51	2018-11-02 01:50:24
R2-1818104	Introducing PDCP suspend procedure	LG	agreed	2018-11-02 01:36:52	2018-11-02 01:50:24
R2-1818105	Flexible hop-by-hop RLC ARQ	LG	not treated	2018-11-02 01:36:53	2018-11-02 01:50:24
R2-1818106	UL scheduling enhancement in NR-U	LG	not treated	2018-11-02 01:36:53	2018-11-02 01:50:24
R2-1818107	Introducing PDCP suspend procedure	LG	revised	2018-11-02 01:36:53	2018-11-02 01:50:24
R2-1818108	TM DRB for IIOT	LG	not treated	2018-11-02 01:36:54	2018-11-02 01:50:24
R2-1818109	Intra-UE UL retransmission resource preemption	LG	not treated	2018-11-02 01:38:03	2018-11-02 05:33:04
R2-1818110	Discussion on handling of bwp-inactivityTimer upon BWP switching	LG Elect	not treated	2018-11-02 01:38:28	2018-11-02 05:16:40
R2-1818111	Correction on handling of bwp-inactivityTimer upon BWP switching	LG Elect	not treated	2018-11-02 01:38:28	2018-11-02 05:16:40
R2-1818112	Discussion on scaling the RSRP threshold for the beam failure recovery	LG Elect	noted	2018-11-02 01:38:29	2018-11-02 05:16:40
R2-1818113	Correction on scaling the RSRP threshold for the beam failure recovery	LG Elect	not pursued	2018-11-02 01:38:29	2018-11-02 05:16:40
R2-1818114	Discussion on reconfiguration of CORESET-BFR during ongoing RA procedure for beam failure recovery	LG Elect	not treated	2018-11-02 01:38:30	2018-11-02 05:16:40
R2-1818115	Correction on RA resource selection for beam failure	LG	withdrawn	2018-11-02 01:38:30	
R2-1818116	Discussion on SR counter handling in consideration of sr-ProhibitTimer	LG Elect	noted	2018-11-02 01:38:31	2018-11-02 05:16:40
R2-1818117	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	agreed	2018-11-02 01:39:49	2018-11-02 04:08:16
R2-1818118	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	revised	2018-11-02 01:39:50	2018-11-02 04:08:16
R2-1818119	Discussion on necessity of frame boundary alignment of NR CA	CMCC	noted	2018-11-02 01:39:51	2018-11-02 04:08:16
R2-1818120	CR to TS 38.300 to correct the restriction on frame boundary alignment of NR CA	CMCC	not treated	2018-11-02 01:39:51	2018-11-02 04:08:16
R2-1818121	Consideration on Ethernet Header Compression	CM	not treated	2018-11-02 01:39:52	2018-11-02 04:08:16
R2-1818122	Scheduling Enhancements for TSN traffic	CM	not treated	2018-11-02 01:39:52	2018-11-02 04:08:16
R2-1818123	Support for Accurate Reference Timing Delivery	CM	not treated	2018-11-02 01:39:52	2018-11-02 04:08:16
R2-1818124	Corrections on P-Max description	CM	agreed	2018-11-02 01:39:52	2018-11-02 06:19:33
R2-1818125	Correction on definition of PEMAX1, PEMAX2	CM	agreed	2018-11-02 01:39:53	2018-11-02 06:19:33
R2-1818126	Discussion on the SL BSR	CM	not treated	2018-11-02 01:39:54	2018-11-02 06:19:33

R2-1818127	Discussion on sidelink unicast communication	CM CC	not treated	2018-11-02 01:39:54	2018-11-02 06:19:33
R2-1818128	Discussion on UE ID for msgA	CM	not treated	2018-11-02 01:39:54	2018-11-02 06:45:43
R2-1818129	Considerations on BWP switching and multi-activation for NR-U	CM CC	not treated	2018-11-02 01:39:54	2018-11-02 06:57:39
R2-1818130	NR-U impacts on DRB mapping	CM	not treated	2018-11-02 01:39:54	2018-11-02 06:57:39
R2-1818131	In-device coexistence for NR-U	CM	not treated	2018-11-02 01:39:54	2018-11-02 06:57:39
R2-1818132	Considerations on UE mobility state estimation and NTN cell movement	CM CC	not treated	2018-11-02 01:39:54	2018-11-02 06:57:39
R2-1818133	Utilization of beam footprint information for mobility management	CM CC	not treated	2018-11-02 01:39:54	2018-11-02 06:57:39
R2-1818134	BFR procedure in DRX mode	CM	noted	2018-11-02 01:39:54	2018-11-02 04:08:16
R2-1818135	More consideration on PDCP status report in IIoT	CM	not treated	2018-11-02 01:39:54	2018-11-02 04:08:16
R2-1818136	UL Scheduling with Multiple TTIs for PUSCH in NR-U	CM	not treated	2018-11-02 01:39:54	2018-11-02 04:08:16
R2-1818137	Discussion on L2 functions reuse in IIoT	CM	not treated	2018-11-02 01:39:54	2018-11-02 04:08:16
R2-1818138	The content of the two messages of 2-	CM	not treated	2018-11-02 01:39:54	2018-11-02 04:08:16
R2-1818139	Discussion of '0ms' interruption handover in context of E-UTRAN	CM CC	not treated	2018-11-02 01:39:54	2018-11-02 06:19:33
R2-1818140	Consideration of resource-efficient PDCP duplication	CM	not treated	2018-11-02 01:39:54	2018-11-02 06:19:33
R2-1818141	Consideration of RACH procedure in NR-U system	CM	not treated	2018-11-02 01:39:54	2018-11-02 06:19:33
R2-1818142	Considerations on channel busy level in NR-U	LG	not treated	2018-11-02 01:40:15	2018-11-02 05:33:04
R2-1818143	Random Access Triggers	Huawei, HiSilicon,	agreed	2018-11-02 01:41:55	2018-11-02 04:25:25
R2-1818144	Concurrent configured grant and UL grant received in	Hua	noted	2018-11-02 01:41:56	2018-11-02 04:25:25
R2-1818145	Handling of overlapped configured grant and UL grant received in RAR	Huawei,	revised	2018-11-02 01:41:56	2018-11-02 04:25:25
R2-1818146	Ambiguity in starting instance of MAC timer for different SCS between UL and DL	Huawei,	not treated	2018-11-02 01:41:57	2018-11-02 04:25:25
R2-1818147	Clarification on the starting instance of the MAC timers	Hua	not treated	2018-11-02 01:41:57	2018-11-02 04:25:25
R2-1818148	Discussion on P bit for the single entry PHR MAC CE	Hua	not treated	2018-11-02 01:41:58	2018-11-02 04:25:25
R2-1818149	Introduce P bit to single entry PHR MAC CE	Hua	not treated	2018-11-02 01:41:58	2018-11-02 04:25:25
R2-1818150	Unnecessary Msg3 rebuilding in case of a retransmission request	Huawei,	not treated	2018-11-02 01:41:59	2018-11-02 04:25:25
R2-1818151	Collision between a RAR grant and another one for a scheduled transmission	Huawei,	not treated	2018-11-02 01:41:59	2018-11-02 04:25:25
R2-1818152	Handling of Msg3 size allocated by RAR mismatch during CBRA procedure	Huawei,	agreed	2018-11-02 01:42:00	2018-11-02 04:25:25
R2-1818153	Cases of Early Stop of RA procedure for SI Request	Xiaomi	not treated	2018-11-02 01:42:17	2018-11-02 02:33:42
R2-1818154	Clarification for contention-free RA resources	LG	noted	2018-11-02 01:42:22	2018-11-02 05:33:04
R2-1818155	CR on contention-free RA resources in 38.321	LG	not	2018-11-02 01:45:42	2018-11-02 05:33:04
R2-1818156	Stop of SI request procedure if no remaining SI-window	Xiaomi	not treated	2018-11-02 01:48:01	2018-11-02 02:33:42
R2-1818157	Considerations on Beam Failure Detection for NR-U	LG	not treated	2018-11-02 01:48:58	2018-11-02 05:33:04
R2-1818158	A3 and A5 event handling for NR DC	Erics	not treated	2018-11-02 01:50:16	2018-11-02 02:40:50
R2-1818159	B1 and B2 event handling for NE DC	Erics	not treated	2018-11-02 01:50:17	2018-11-02 02:40:50
R2-1818160	On timing reference for SMTC configuration in NR DC	Erics	not treated	2018-11-02 01:50:17	2018-11-02 02:40:50
R2-1818161	Considerations on BWP operation for NR-U	LG	not treated	2018-11-02 01:50:27	2018-11-02 05:33:04
R2-1818162	Considerations on Common 2-Step RACH	III	not treated	2018-11-02 01:50:55	2018-11-02 03:57:40
R2-1818163	Stop of SI request procedure upon acquiring updated SIB1	Xiaomi	not treated	2018-11-02 01:51:55	2018-11-02 02:33:42
R2-1818164	Efficient and configurable DL EDT	Sierra	not treated	2018-11-02 01:52:14	2018-11-02 01:54:28
R2-1818165	Discussion on AS level connection for unicast	Beijing	not treated	2018-11-02 01:53:01	2018-11-02 01:59:13
R2-1818166	Some considerations about congestion handling for IAB networks	Huawei	not treated	2018-11-02 01:53:58	2018-11-02 03:07:12
R2-1818167	Adjust SI request during SI request procedure	Xiaomi	not treated	2018-11-02 01:57:13	2018-11-02 02:33:42
R2-1818168	Capture use of motion information from motion sensors	Nokia, Nokia	withdrawn	2018-11-02 01:57:40	2018-11-02 05:12:57

R2-1818169	Discussion on single RRC or dual RRC for non split-bearer	Beijing	not treated	2018-11-02 01:57:55	2018-11-02 01:59:13
R2-1818170	Clarification on the MAC timer	vivo	not treated	2018-11-02 01:59:13	2018-11-02 05:57:37
R2-1818171	Clarification on the MAC timer	vivo	not treated	2018-11-02 01:59:13	2018-11-02 05:57:37
R2-1818172	Configuration change of BFR	vivo	noted	2018-11-02 01:59:15	2018-11-02 05:50:06
R2-1818173	Configuration change of BFR	vivo	not	2018-11-02 01:59:15	2018-11-02 05:50:06
R2-1818174	Bj impacts due to the Msg3 MAC PDU rebuilding	vivo	not treated	2018-11-02 01:59:16	2018-11-02 05:50:06
R2-1818175	Bj impacts due to the Msg3 MAC PDU rebuilding	vivo	not treated	2018-11-02 01:59:16	2018-11-02 05:50:06
R2-1818176	CR for Adjusting SI request during SI request procedure	Xiaomi	not treated	2018-11-02 01:59:51	2018-11-02 02:33:42
R2-1818177	Capture use of motion information from motion sensors	Nokia,	revised	2018-11-02 02:00:34	2018-11-02 05:13:16
R2-1818178	SL MAC considerations for NR V2X	Intel Corp	not treated	2018-11-02 02:00:36	2018-11-02 02:46:30
R2-1818179	Considerations on NR sidelink unicast and groupcast support for V2X	Intel Corp	not treated	2018-11-02 02:00:36	2018-11-02 05:26:19
R2-1818180	Signalling of CRS IM and CCH-IM for UE cat 1bis and	Intel	revised	2018-11-02 02:00:36	2018-11-02 04:25:06
R2-1818181	Various sTTI corrections	Intel	agreed	2018-11-02 02:00:37	2018-11-02 04:25:06
R2-1818182	Various sTTI corrections	Intel	revised	2018-11-02 02:00:39	2018-11-02 04:25:06
R2-1818183	LCS exposure to NG-RAN	Nokia,	not treated	2018-11-02 02:02:42	2018-11-02 05:13:32
R2-1818184	Clarification if updated SIB1 is acquired in the middle of SI-window	Xiaomi	not treated	2018-11-02 02:03:53	2018-11-02 02:33:42
R2-1818185	NPP protocol for NR positioning	Nokia,	not treated	2018-11-02 02:04:11	2018-11-02 05:13:44
R2-1818186	Delay of BFR in DRX off	Xiaomi	not treated	2018-11-02 02:06:45	2018-11-02 02:33:42
R2-1818187	Analysis of RA issues	Pote	not treated	2018-11-02 02:10:34	2018-11-02 02:12:39
R2-1818188	Correction on RA procedure	Xiaomi	merged	2018-11-02 02:11:36	2018-11-02 02:33:42
R2-1818189	Correction to packet delivery and maintenance of state variables for sidelink transmission and reception	ASUSTe	revised	2018-11-02 02:12:36	2018-11-02 02:30:20
R2-1818190	Discussion on IDC problems in NR-U	ASU	not treated	2018-11-02 02:12:37	2018-11-02 02:30:20
R2-1818191	Connection procedure failure caused by On-demand SI procedure	ASUSTe	not treated	2018-11-02 02:12:37	2018-11-02 02:30:20
R2-1818192	BFR triggering in DRX	ASU	not treated	2018-11-02 02:12:37	2018-11-02 02:30:20
R2-1818193	Correction to BFR triggering in DRX	ASU	not treated	2018-11-02 02:12:37	2018-11-02 02:30:20
R2-1818194	CR on 38.331 for inter-system MR-DC HO	Hua	not treated	2018-11-02 02:17:17	2018-11-02 04:52:08
R2-1818195	Correction on RA resource selection for beam failure	LG	not	2018-11-02 02:17:22	2018-11-02 05:16:40
R2-1818196	Email discussion-[103bis#35][NR/V2X] V2X	Hua	revised	2018-11-02 02:19:43	2018-11-05 01:38:59
R2-1818197	NR SL protocol stack overview	Huawei,	not treated	2018-11-02 02:19:44	2018-11-02 04:29:10
R2-1818198	Discussion on HARQ support for NR sidelink	Huawei,	not treated	2018-11-02 02:19:44	2018-11-02 04:29:10
R2-1818199	Discussion on RLC mode for NR sidelink	Huawei,	not treated	2018-11-02 02:19:44	2018-11-02 04:29:10
R2-1818200	Potential enhancements for NR Mode 2	Hua	not treated	2018-11-02 02:19:45	2018-11-02 04:29:10
R2-1818201	The enhancement of Uu to control inter-RAT V2X	Hua	not treated	2018-11-02 02:19:45	2018-11-02 04:29:10
R2-1818202	Discussion on NR support for multiple active UL configured grants	Huawei,	not treated	2018-11-02 02:19:45	2018-11-02 04:29:10
R2-1818203	QoS Feedback of NR Sidelink V2X Communications	Hua	not treated	2018-11-02 02:19:45	2018-11-02 04:29:10
R2-1818204	[DRAFT] Reply LS on supporting low latency and low jitter during handover procedure for SA2 URLLC	OPPO	revised	2018-11-02 02:21:01	2018-11-08 04:08:44
R2-1818205	V2X UE behaviour upon releasing a unicast/groupcast session	ITL	not treated	2018-11-02 02:22:11	2018-11-02 02:34:40
R2-1818206	Discussion on SA2 LS on supporting low latency and low jitter during handover procedure	OPPO	not treated	2018-11-02 02:23:09	2018-11-08 04:08:44
R2-1818207	Further consideration on Tx carrier (re)selection in NR V2X	ITL	not treated	2018-11-02 02:23:41	2018-11-02 02:34:40
R2-1818208	Correction to UE capability enquiry	Google	not pursued	2018-11-02 02:24:56	2018-11-02 06:55:27
R2-1818209	Discussion on flow control	ITL	not treated	2018-11-02 02:27:48	2018-11-02 02:34:40
R2-1818210	Mobile-terminated Early Data Transmission	MediaTek	not treated	2018-11-02 02:29:15	2018-11-02 06:08:11
R2-1818211	CR on adding SPCell information to CG-Config	Samsung	not pursued	2018-11-02 02:29:41	2018-11-02 04:38:29

R2-1818212	Clarification on capabilities transferring	Google	agreed	2018-11-02 02:30:03	2018-11-02 06:58:23
R2-1818213	CR on PSCell (SPCell of SN) change (38.331)	Samsung	not pursued	2018-11-02 02:32:43	2018-11-02 04:38:29
R2-1818214	RACH capacity analysis in NTN	ZTE,	not treated	2018-11-02 02:33:53	2018-11-02 02:43:43
R2-1818215	CR on PSCell (SPCell of SN) change (36.331)	Samsung	revised	2018-11-02 02:35:40	2018-11-02 04:38:30
R2-1818216	Transmission counting in MAC with LBT	LG	not treated	2018-11-02 02:36:08	2018-11-02 04:22:39
R2-1818217	Cleanup on handover to EUTRA procedure	Google	agreed	2018-11-02 02:37:49	2018-11-02 06:59:36
R2-1818218	General aspects of group WUS	Ericsson	not treated	2018-11-02 02:38:17	2018-11-02 06:08:34
R2-1818219	Correction to DRB release	Google	agreed	2018-11-02 02:39:59	2018-11-02 06:58:23
R2-1818220	BWP selection based on HARQ process ID in NR-U	LG	not treated	2018-11-02 02:40:09	2018-11-02 04:22:39
R2-1818221	Inter-RAT control of sidelink communication	MediaTek	not treated	2018-11-02 02:40:13	2018-11-02 03:06:33
R2-1818222	CR on 38.304 for correction of PLMN selection in RRC_INACTIVE	LG Elect	revised	2018-11-02 02:41:38	2018-11-02 04:07:08
R2-1818223	HARQ process ID selection for NR-U	LG	not treated	2018-11-02 02:43:54	2018-11-02 04:22:39
R2-1818224	UE operation upon RRC reject reception	Appl	not treated	2018-11-02 02:45:58	2018-11-02 03:08:13
R2-1818225	UE operation upon RRC reject reception	Appl	noted	2018-11-02 02:45:59	2018-11-02 03:08:13
R2-1818226	UE Capability Compression	Appl e	not treated	2018-11-02 02:46:01	2018-11-02 03:08:13
R2-1818227	UE Capability Segmentation	Appl e	not treated	2018-11-02 02:46:01	2018-11-02 03:08:13
R2-1818228	UE re-establishement for signaling only connection	Appl	not treated	2018-11-02 02:46:01	2018-11-02 05:50:57
R2-1818229	Remaining issue on signalling only connection	LG	not treated	2018-11-02 02:46:04	2018-11-02 04:07:08
R2-1818230	Consideration on Response LS on agreements regarding UE behaviour in RRC_INACTIVE while	LG Elect	not treated	2018-11-02 02:48:03	2018-11-02 04:07:08
R2-1818231	Consideration on backhaul link enhancement for IAB	LG	not treated	2018-11-02 02:49:52	2018-11-02 04:07:08
R2-1818232	Autonomous uplink transmission for NR-U	LG	not treated	2018-11-02 02:54:13	2018-11-02 04:22:39
R2-1818233	Consideration on intra-UE prioritization	Appl	not treated	2018-11-02 02:56:47	2018-11-02 06:54:38
R2-1818234	Correction on EDT description	LG Elect	not pursued	2018-11-02 02:56:54	2018-11-02 04:28:41
R2-1818235	Correction on RRC processing delay	Intel	not treated	2018-11-02 02:56:55	2018-11-02 05:39:56
R2-1818236	Scheduling enhancements for TSN traffic	Intel	not treated	2018-11-02 02:56:56	2018-11-02 05:39:56
R2-1818237	Improvement to Msg3 handling for switching between CBRA and CFRA	Huawei,	not treated	2018-11-02 03:03:34	2018-11-02 04:30:22
R2-1818238	UE_ID based WUS grouping	Ericsson	not treated	2018-11-02 03:04:50	2018-11-02 06:08:34
R2-1818239	Clarification to UE states for EDT	Huawei, HiSilicon, Nokia, Nokia	revised	2018-11-02 03:10:08	2018-11-02 06:23:35
R2-1818240	Clarification on configured grant timer in 38.331	Hua	agreed	2018-11-02 03:10:09	2018-11-02 06:23:35
R2-1818241	Further consideration on determination of the PH value	Hua	not treated	2018-11-02 03:10:10	2018-11-02 06:23:35
R2-1818242	Correction to determination of PH value type in 38.321	Hua	not treated	2018-11-02 03:10:10	2018-11-02 06:23:35
R2-1818243	[Draft] LS on determination of PH value type	Hua	not treated	2018-11-02 03:10:11	2018-11-02 06:23:35
R2-1818244	Beam failure recovery in DRX	Hua	not treated	2018-11-02 03:10:11	2018-11-02 06:23:35
R2-1818245	On the relation between satellite beam and NR	Hua	not treated	2018-11-02 03:10:11	2018-11-02 06:23:35
R2-1818246	Discussion on timer impacts in NTN	Hua	noted	2018-11-02 03:10:11	2018-11-02 06:23:35
R2-1818247	Further discussion on MAC impacts in NTN	Hua	noted	2018-11-02 03:10:11	2018-11-02 06:23:35
R2-1818248	Consideration on mobility management in NTN	Hua	not treated	2018-11-02 03:10:11	2018-11-02 06:23:35
R2-1818249	Consideration on NTN impact on cell selection and	Hua	not treated	2018-11-02 03:10:11	2018-11-02 06:23:35
R2-1818250	Consideration on paging mechanism in NTN	Hua	not treated	2018-11-02 03:10:12	2018-11-02 06:23:35
R2-1818251	Further discussion on RLC/PDCP impacts in NTN	Huawei Tele	not treated	2018-11-02 03:11:06	2018-11-02 06:23:35
R2-1818252	Reply LS on MIB acquisition during SpCell change	vivo	not treated	2018-11-02 03:14:45	2018-11-02 06:30:10
R2-1818253	AS - NAS interaction during Early Data Transmission (EDT)	Ericsson,	noted	2018-11-02 03:17:05	2018-11-02 06:08:34
R2-1818254	Time Synchronisation for IIOT	NTT	noted	2018-11-02 03:25:49	2018-11-02 06:49:06

R2-1818255	Correction on SRB4 for QoE measurement collection	Huawei,	agreed	2018-11-02 03:27:10	2018-11-02 04:29:10
R2-1818256	Correction on Bluetooth and WLAN measurement collection in MDT	Huawei,	agreed	2018-11-02 03:27:11	2018-11-02 04:29:10
R2-1818257	Open issues for NR-U connected mode mobility	CM	not treated	2018-11-02 03:28:59	2018-11-02 06:45:43
R2-1818258	Enhance RACH with Additional Transmission	vivo	not treated	2018-11-02 03:29:47	2018-11-02 06:33:11
R2-1818259	Counter for Preamble Transmission Attempt	vivo	not treated	2018-11-02 03:29:47	2018-11-02 06:33:11
R2-1818260	RAN2 impacts of 2-step RACH	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818261	Discussion on SR procedure	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818262	Discussion on the configurations of configured grant	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818263	Discussion on the service based channel access	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818264	Discussion on single or muliple DRX configurations for	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818265	Discussion on the support of multiple active BWP	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818266	Ignored LBT impacts on the MAC	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818267	LBT impacts on BFD in NR-U	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818268	Wake-UP-Signal and LBT	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818269	Paging enhancements for NR-U	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818270	Evaluation of the RLM in NR-U	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818271	Text proposals for the evaluation resultsof the RLM in	vivo	not treated	2018-11-02 03:29:48	2018-11-02 06:33:11
R2-1818272	Draft CR on release and addition for NGEN-DC	Huawei,	not treated	2018-11-02 03:32:46	2018-11-02 06:23:28
R2-1818273	Draft LS on BCS definition for MR-DC options	Huawei,	revised	2018-11-02 03:32:46	2018-11-02 06:23:28
R2-1818274	Consideration on miscellaneous MAC aspects for NR sidelink design	Huawei,	not treated	2018-11-02 03:32:48	2018-11-02 05:18:03
R2-1818275	Corrections on UE assistance information for Inter node RRC information transfer	Huawei,	not pursued	2018-11-02 03:34:39	2018-11-02 04:29:10
R2-1818276	Corrections on UE assistance information for Inter node RRC information transfer	Huawei,	not treated	2018-11-02 03:34:41	2018-11-02 04:29:10
R2-1818277	SRB Types for Control Plane Alternative 2	Huawei	not treated	2018-11-02 03:35:01	2018-11-02 04:45:23
R2-1818278	Correction on LCH-to-Cell restriction application with implicit indication	Huawei,	not treated	2018-11-02 03:45:16	2018-11-02 05:52:25
R2-1818279	Pending RNAU upon cell reselection while T390 is running	Xiaomi	not treated	2018-11-02 03:45:35	2018-11-02 06:43:06
R2-1818280	The handling of exceptional cases for UAC	Xiaomi	not treated	2018-11-02 03:49:18	2018-11-02 06:43:23
R2-1818281	Correction to value table for recommended bit rate	Qual	revised	2018-11-02 03:51:43	2018-11-02 04:11:04
R2-1818282	Correction to SR procedure under beam failure	Qual	not	2018-11-02 03:51:45	2018-11-02 04:11:04
R2-1818283	Correction to BFR procedure in DRX off time	Qualcomm	not treated	2018-11-02 03:51:46	2018-11-02 04:11:04
R2-1818284	Discussion on BFR procedure in DRX off time	Qualcomm	noted	2018-11-02 03:51:47	2018-11-02 04:11:04
R2-1818285	Prioritization between overlapping dynamic and configured grant	Qualcom	not treated	2018-11-02 03:51:47	2018-11-02 04:11:04
R2-1818286	Way forward on ARQ mode	Futurewei	not treated	2018-11-02 04:00:17	2018-11-02 04:45:23
R2-1818287	On stopping T320 and UE related actions	Xiaomi	revised	2018-11-02 04:01:17	2018-11-02 06:43:42
R2-1818288	RRC processing delay requirement for NR	Samsung	not treated	2018-11-02 04:03:00	2018-11-02 04:38:30
R2-1818289	Mobility in NR-U	Medi	not treated	2018-11-02 04:05:49	2018-11-02 04:12:28
R2-1818290	CR to 38.331 on the handling of exceptional cases for UAC	Xiaomi	not pursued	2018-11-02 04:07:27	2018-11-02 06:44:00
R2-1818291	Cell Selection Reselection in NR-U	Medi	not treated	2018-11-02 04:07:47	2018-11-02 04:12:48
R2-1818292	Discussion on cell reselection of IAB nodes	LG	noted	2018-11-02 04:09:37	2018-11-02 06:39:14
R2-1818293	Discussion on Cell-specific SLSS_TxDisabled	LG Elect	not pursued	2018-11-02 04:09:37	2018-11-02 06:39:14
R2-1818294	Dynamic scheduling for NR sidelink mode 2	LG	not treated	2018-11-02 04:09:37	2018-11-02 06:39:14
R2-1818295	Support of broadcast for NR sidelink mode 1	LG	not treated	2018-11-02 04:09:37	2018-11-02 06:39:14
R2-1818296	Support of unicast and groupcast for NR sidelink mode	LG	not treated	2018-11-02 04:09:37	2018-11-02 06:39:14
R2-1818297	CR on RRC processing delay requirement	Samsung	not treated	2018-11-02 04:09:37	2018-11-02 04:38:30

R2-1818298	Management of SN-terminated DRBs	Samsung	not treated	2018-11-02 04:11:18	2018-11-02 04:38:30
R2-1818299	CR to 38.331 on the handling of emergency call	Xiaomi	not pursued	2018-11-02 04:11:26	2018-11-02 06:44:17
R2-1818300	Measurement report of SCG serving cells in MR-DC	Samsung	noted	2018-11-02 04:12:30	2018-11-02 04:38:30
R2-1818301	QoS flow handling in NR-DC	Samsung	not treated	2018-11-02 04:13:42	2018-11-02 04:38:30
R2-1818302	PDCCH blind decoding capability coordination in NR-DC	Samsung	not treated	2018-11-02 04:15:04	2018-11-02 04:38:30
R2-1818303	CR on PDCCH blind decoding capability coordination (approach 1)	Samsung	revised	2018-11-02 04:17:41	2018-11-02 04:38:29
R2-1818304	CR on PDCCH blind decoding capability coordination (approach 1)	Samsung	withdrawn	2018-11-02 04:18:15	
R2-1818305	CR on SI Message Acquisition	Samsung	withdrawn	2018-11-02 04:18:59	
R2-1818306	CR on PDCCH blind decoding capability coordination (approach 2-1)	Samsung	not treated	2018-11-02 04:20:01	2018-11-02 04:38:29
R2-1818307	CR on PDCCH blind decoding capability coordination (approach 2-1)	Samsung	withdrawn	2018-11-02 04:20:16	
R2-1818308	Correction on indication for user plane resource release	LG Electronics, MediaTek	revised	2018-11-02 04:20:50	2018-11-02 05:43:26
R2-1818309	Consideration on traffic attributes	LG	not treated	2018-11-02 04:25:29	2018-11-02 05:43:26
R2-1818310	CR on SI Message Acquisition	Samsung	agreed	2018-11-02 04:28:30	2018-11-02 05:01:31
R2-1818311	Remaining issue on SI Message Acquisition	Samsung	not treated	2018-11-02 04:32:09	2018-11-02 05:01:31
R2-1818312	Clarification for limited Tx capability	LG	revised	2018-11-02 04:34:05	2018-11-02 06:39:14
R2-1818313	EN-DC AS context related issue	NTT DOC	noted	2018-11-02 04:34:07	2018-11-02 05:59:58
R2-1818314	Signalling of CRS IM and CCH-IM for UE cat 1bis and	Intel	revised	2018-11-02 04:34:31	2018-11-07 00:51:57
R2-1818315	Signalling of CRS IM and CCH-IM for UE cat 1bis and	Intel	revised	2018-11-02 04:34:33	2018-11-07 00:51:57
R2-1818316	CR on SI Message Acquisition remaining issue	Samsung	not treated	2018-11-02 04:36:28	2018-11-02 05:01:31
R2-1818317	Comparisons of C-plane alternatives	Huawei	not treated	2018-11-02 04:36:46	2018-11-02 05:09:15
R2-1818318	CR for EN-DC AS context related issue	NTT	withdrawn	2018-11-02 04:39:12	
R2-1818319	Configuration for cell-specific SLSS_TxDisabled	LG	not treated	2018-11-02 04:41:41	2018-11-02 06:39:14
R2-1818320	LTE signalling support for bearers in NE-DC	Samsung	not treated	2018-11-02 04:42:12	2018-11-02 05:01:31
R2-1818321	Discussion on SCG failure Information message in MR-DC	Samsung	not treated	2018-11-02 04:44:12	2018-11-02 06:54:03
R2-1818322	Addition of selected BC in AS-Context for EN-DC	NTT	withdrawn	2018-11-02 04:44:46	
R2-1818323	single uplink feedback for dual downlink data transmission	Huawei,	not treated	2018-11-02 04:45:44	2018-11-02 04:48:49
R2-1818324	Measurement reporting configured by SN in MR-DC	LG Elect	not treated	2018-11-02 04:47:45	2018-11-02 05:30:28
R2-1818325	CR to 38331 on Measurement reporting configured by SN in MR-DC	LG Elect	not treated	2018-11-02 04:47:45	2018-11-02 05:30:28
R2-1818326	CR to 36331 on Measurement reporting configured by SN in NE-DC	LG Elect	not treated	2018-11-02 04:47:47	2018-11-02 05:30:28
R2-1818327	CR to 36331 on Correction of field names for NR measurement reporting	LG Elect	not pursued	2018-11-02 04:47:49	2018-11-02 05:30:28
R2-1818328	Channel occupancy measurement enhancements for	LG	not treated	2018-11-02 04:47:51	2018-11-02 05:30:28
R2-1818329	Reading MIBSIB1 from non-best cells	LG	not treated	2018-11-02 04:47:51	2018-11-02 05:30:28
R2-1818330	Clarification for SLSS_TxDisabled	LG	revised	2018-11-02 04:49:49	2018-11-02 06:39:14
R2-1818331	Support for Logging of 'Any cell selection' state	LG Electronics, SK	revised	2018-11-02 04:50:06	2018-11-02 04:58:49
R2-1818332	Consideration to Support Conditional HO	LG	not treated	2018-11-02 04:50:08	2018-11-02 04:58:49
R2-1818333	Signalling Delay in NTN	LG	not treated	2018-11-02 04:50:08	2018-11-02 04:58:49

R2-1818334	Consideration to NR UE Capability	LG Elect	not treated	2018-11-02 04:50:08	2018-11-02 04:58:49
R2-1818335	Clarification for BWP ID Handling	LG	not treated	2018-11-02 04:50:08	2018-11-02 04:58:49
R2-1818336	Support of Multiple connectivity for IAB nodes	Futur ewei	not treated	2018-11-02 04:53:04	2018-11-02 05:26:53
R2-1818337	Correction to RNA update	Goog le	not pursued	2018-11-02 04:53:15	2018-11-02 06:55:27
R2-1818338	Draft CR on SCG RLC bearer handling in NE-DC	Sam sung	reserved	2018-11-02 04:59:17	
R2-1818339	Discussion on the RLC modes for PDCP duplication	LG	not treated	2018-11-02 05:01:11	2018-11-02 05:46:05
R2-1818340	Introduction of SCG Failure information for MR-DC	Sam sung	not treated	2018-11-02 05:02:02	2018-11-02 06:54:03
R2-1818341	Recovery of discarded PDCP PDUs due to integrity verification failure	LG Elect	not treated	2018-11-02 05:04:09	2018-11-02 05:46:05
R2-1818342	CR to 38.331 on Triggering condition for A1-A6 events in NR	Erics son	not treated	2018-11-02 05:04:50	2018-11-02 06:17:31
R2-1818343	CR to 38.306 on Triggering condition for A1-A6 events in NR	Erics son	not treated	2018-11-02 05:04:54	2018-11-02 06:17:31
R2-1818344	CR to 38.331 on measurement priority handling in NR	Erics son	not treated	2018-11-02 05:04:55	2018-11-02 06:17:31
R2-1818345	CR to 38.306 on measurement priority handling in NR	Erics son	not treated	2018-11-02 05:04:56	2018-11-02 06:17:31
R2-1818346	CR to 38.331 on overriding cell quality derivation parameters upon state transition	Erics son	not treated	2018-11-02 05:05:04	2018-11-02 06:17:31
R2-1818347	CR to 38.331 on SSB terminology harmonization	Erics son	not pursued	2018-11-02 05:05:05	2018-11-02 06:17:31
R2-1818348	CR to 38.321 on SSB terminology harmonization	Erics son	not pursued	2018-11-02 05:05:06	2018-11-02 06:17:31
R2-1818349	CR to 38.331 on detected cells terminology usage for CSI-RSs	Erics son	not treated	2018-11-02 05:05:07	2018-11-02 06:17:31
R2-1818350	CR to 38.331 on rs-Type related clarifications	Erics son	not treated	2018-11-02 05:05:08	2018-11-02 06:17:31
R2-1818351	CR to 38.331 on field description corrections for measResults	Erics son	merged	2018-11-02 05:05:09	2018-11-02 06:17:31
R2-1818352	CR to 38.331 on CSI-RS-ResourceConfigMobility field description clarification	Erics son	not treated	2018-11-02 05:05:11	2018-11-02 06:17:31
R2-1818353	CR to 38.331 on ReportConfigNR field description corrections	Erics son	merged	2018-11-02 05:05:12	2018-11-02 06:17:31
R2-1818354	Multi-path packet duplication for NR-U	LG	not treated	2018-11-02 05:05:56	2018-11-02 05:12:38
R2-1818355	DRX for unlicensed operation	LG	not treated	2018-11-02 05:05:56	2018-11-02 05:12:38
R2-1818356	Fast preamble transmission in NR-U	LG	not treated	2018-11-02 05:05:56	2018-11-02 05:12:38
R2-1818357	Potential enhancement on Configured Grant for IIOT	LG	not treated	2018-11-02 05:05:56	2018-11-02 05:12:38
R2-1818358	Scheduling enhancement for TSN traffic	LG	not treated	2018-11-02 05:05:56	2018-11-02 05:12:38
R2-1818359	BSR enhancement for predictable but varying TSN	LG	not treated	2018-11-02 05:05:56	2018-11-02 05:12:38
R2-1818360	Consideration of the PDCP duplication	LG	not treated	2018-11-02 05:07:43	2018-11-02 05:46:05
R2-1818361	Correction on Qoffset_temp application condition	Sam	not	2018-11-02 05:09:41	2018-11-02 05:55:18
R2-1818362	On measObject swapping upon handover	Erics son	not treated	2018-11-02 05:09:57	2018-11-02 06:17:31
R2-1818363	On measObject update related UE actions	Erics son	not pursued	2018-11-02 05:09:57	2018-11-02 06:17:31
R2-1818364	On the inclusion of candidate cells in the measurement report	Erics son	not treated	2018-11-02 05:09:57	2018-11-02 06:17:31
R2-1818365	On measurement report size reduction	Erics son	not treated	2018-11-02 05:09:57	2018-11-02 06:17:31
R2-1818366	On overriding cell quality derivation parameters upon state transition	Erics son	not treated	2018-11-02 05:09:57	2018-11-02 06:17:31
R2-1818367	Handling of the RLF on wireless backhaul link	LG	not treated	2018-11-02 05:10:17	2018-11-02 05:46:05
R2-1818368	CR on supporting of the ROHC for PDCP duplication	LG	agreed	2018-11-02 05:12:43	2018-11-02 05:46:05
R2-1818369	NTN architecture and scenario to be prioritized	Noki a,	not treated	2018-11-02 05:17:36	2018-11-02 06:07:28
R2-1818370	Correction on the conditional presence of CellSelectionInfo in SIB1	Sam sung	not pursued	2018-11-02 05:18:25	2018-11-02 05:55:18
R2-1818371	Adapt function for unified design	Futur ewei	not treated	2018-11-02 05:19:13	2018-11-02 06:16:03
R2-1818372	NTN Mobility aspects for LEO based networks	Noki a,	not treated	2018-11-02 05:22:25	2018-11-02 06:07:28

R2-1818373	Restricting the Msg3 rebuilding to CBRA to CFRA switching	Nokia,	not pursued	2018-11-02 05:22:49	2018-11-02 05:29:47
R2-1818374	Unified design for IAB	Futurewei	not treated	2018-11-02 05:22:52	2018-11-02 07:00:34
R2-1818375	Correction on timer T3xx	Sam	not treated	2018-11-02 05:24:19	2018-11-02 05:55:18
R2-1818376	Further considerations on Mobility impacts for LEO based networks	Nokia,	not treated	2018-11-02 05:25:32	2018-11-02 06:07:28
R2-1818377	IAB routing and topology management for Architecture 1a	Nokia,	not treated	2018-11-02 05:28:26	2018-11-02 06:31:58
R2-1818378	Correction on conditional presence of PCellOnly	Sam	agreed	2018-11-02 05:29:11	2018-11-02 05:55:18
R2-1818379	Correction for RRC connection establishment procedure on UTDC	SHARP	not treated	2018-11-02 05:29:46	2018-11-02 06:52:33
R2-1818380	Correction for NAS indication during SDAP	SHA	not treated	2018-11-02 05:29:48	2018-11-02 06:54:09
R2-1818381	On full configuration operation for NG-EN DC and NE-DC	SHARP	not treated	2018-11-02 05:29:48	2018-11-02 07:00:47
R2-1818382	Conditional Handover making up for LTE baseline HO	Samsung	not treated	2018-11-02 05:33:48	2018-11-02 05:55:18
R2-1818383	Way forward on UP alternatives of architecture group 1a	Futurewei	not treated	2018-11-02 05:34:33	2018-11-02 07:00:34
R2-1818384	Discussion on ack-NACK-NumRepetitions	NTT	noted	2018-11-02 05:36:58	2018-11-02 06:20:44
R2-1818385	Correction on the terminology scg-ChangeFailure	Sam	revised	2018-11-02 05:37:21	2018-11-02 05:55:18
R2-1818386	Comparison of IP vs non-IP routing for Arch 1a	Nokia,	reserved	2018-11-02 05:39:40	
R2-1818387	Correction on default configuration	Sam	revised	2018-11-02 05:42:02	2018-11-02 05:55:18
R2-1818388	Overview of changes required for Arch1a to support non 3GPP access and LTE Access	Nokia,	reserved	2018-11-02 05:42:12	
R2-1818389	Clarification for the UE AS context handling upon resuming the connection	Samsung	not treated	2018-11-02 05:47:03	2018-11-02 06:10:21
R2-1818390	Addition of selected BC in AS-Context for EN-DC	NTT DOC	revised	2018-11-02 05:49:41	2018-11-02 06:00:11
R2-1818391	Inter-node RRC messages for NE-DC	Erics	not treated	2018-11-02 05:51:37	2018-11-02 06:48:49
R2-1818392	Inter-node RRC messages for NE-DC	Erics	not treated	2018-11-02 05:51:37	2018-11-02 06:48:49
R2-1818393	Inter-node RRC messages for MR-DC	Erics	not treated	2018-11-02 05:51:37	2018-11-02 06:48:49
R2-1818394	SCG failure handling in case of NE-DC	Erics	not treated	2018-11-02 05:51:38	2018-11-02 06:48:49
R2-1818395	SCG failure handling in case of NE-DC	Erics	not treated	2018-11-02 05:51:38	2018-11-02 06:48:49
R2-1818396	SCG failure handling in case of NR-DC	Erics	not treated	2018-11-02 05:51:38	2018-11-02 06:48:49
R2-1818397	SCG failure handling in case of MR-DC	Ericsson	not treated	2018-11-02 05:51:38	2018-11-02 06:48:49
R2-1818398	SCG failure handling in case of MR-DC	Ericsson	not treated	2018-11-02 05:51:38	2018-11-02 06:48:49
R2-1818399	Email discussion summary [104_10] - Late drop 38.331	Erics	noted	2018-11-02 05:51:39	2018-11-02 06:48:49
R2-1818400	Introduction of late drop NGEN-DC, NE-DC and NR-DC	Ericsson	endorsed	2018-11-02 05:51:39	2018-11-02 06:48:49
R2-1818401	RRCReconfigurationComplete message in MR-DC	Ericsson	not treated	2018-11-02 05:51:39	2018-11-02 06:48:49
R2-1818402	Corrections on Multi-Radio dual connectivity	Ericsson,	revised	2018-11-02 05:51:39	2018-11-02 06:48:49
R2-1818403	Corrections for MR-DC procedures	Ericsson	not treated	2018-11-02 05:51:40	2018-11-02 06:48:49
R2-1818404	Capability coordination for NR-DC	Ericsson	not treated	2018-11-02 05:51:41	2018-11-02 06:48:49
R2-1818405	Capability coordination for NR-DC	Ericsson	not treated	2018-11-02 05:51:41	2018-11-02 06:48:49
R2-1818406	Intra-UE prioritization for critical packets within a RB/QoS flow	LG Elect	not treated	2018-11-02 05:51:54	2018-11-02 05:58:10
R2-1818407	Add p-Max for SUL in SIB2 and SIB4	CM	revised	2018-11-02 05:52:05	2018-11-02 06:19:33
R2-1818408	Flushing HARQ buffer for carrier reselection	LG	agreed	2018-11-02 05:59:26	2018-11-02 06:28:15
R2-1818409	TX carrier reselection when cbr-pssch-TxConfigList is not configured	LG Elect	noted	2018-11-02 05:59:27	2018-11-02 06:28:15
R2-1818410	Reception of RAN paging after pending RAN update	LG	not	2018-11-02 05:59:28	2018-11-02 06:28:15
R2-1818411	Reception of PWS notification and repeated broadcast of a warning message	LG Elect	not treated	2018-11-02 05:59:29	2018-11-02 06:28:15
R2-1818412	Reception of PWS notification and repeated broadcast of a warning message	LG Elect	not treated	2018-11-02 05:59:29	2018-11-02 06:28:15
R2-1818413	[L220] Concurrent triggers of SI request and RRC establishment or resume	LG Elect	not treated	2018-11-02 05:59:31	2018-11-02 06:28:15

R2-1818414	RRC Re-establishment Enhancement in MR-DC	LG Elect	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818415	Access Control for IAB node	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818416	Cell Reselection in NR-U	LG	noted	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818417	Adding EPC based eNB controlling NR SL in Scenario	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818418	TP to EPC based eNB controlling NR SL in Scenario 2	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818419	Proposed LS on cross-RAT sidelink control	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818420	Report of [103bis#36][NR/V2X] SL broadcast, UP aspects (LG)	LG Elect	noted	2018-11-02 05:59:32	2018-11-07 09:56:57
R2-1818421	NR Sidelink logical channels for unicast/groupcast/broadcast	LG Elect	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818422	Protocol Stacks for NR Sidelink	LG Elect	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818423	Sidelink resource configuration for NR Sidelink	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818424	Cross-RAT sidelink configuration in MR-DC	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818425	Cell reselection for NR V2X sidelink communication	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818426	NR Uu enhancements for V2X communication	LG	not treated	2018-11-02 05:59:32	2018-11-02 06:28:15
R2-1818427	Paging and Mobility for MR-DC with RRC_INACTIVE	Qualcom	withdrawn	2018-11-02 06:05:20	2018-11-02 06:13:11
R2-1818428	Paging configurations and fractional nB value	Ericsson	noted	2018-11-02 06:06:22	2018-11-02 06:08:34
R2-1818429	Introduction of Data Inactivity Timer in MAC	Erics	agreed	2018-11-02 06:06:52	2018-11-02 06:44:53
R2-1818430	Correction for Reconfiguration of CFRA during ongoing	Erics	agreed	2018-11-02 06:06:53	2018-11-02 06:44:53
R2-1818431	Clarification on ciphering MAC-I	Ericsson,	agreed	2018-11-02 06:06:54	2018-11-02 06:44:53
R2-1818432	Specifying PDCCH monitoring	Erics	noted	2018-11-02 06:06:55	2018-11-02 06:44:53
R2-1818433	Clarification to PDCCH monitoring	Erics	revised	2018-11-02 06:06:55	2018-11-02 06:44:53
R2-1818434	Clarification for CCCH1	Erics	agreed	2018-11-02 06:06:56	2018-11-02 06:44:53
R2-1818435	Corrections on BFR procedure in DRX	Erics	not treated	2018-11-02 06:06:57	2018-11-02 06:44:53
R2-1818436	BFD in DRX	Erics	not treated	2018-11-02 06:06:58	2018-11-02 06:44:53
R2-1818437	Clarification on prioritized Random Access	Ericsson	merged	2018-11-02 06:06:58	2018-11-02 06:44:53
R2-1818438	Clarification on PDCCH monitoring when DRX is not configured	Ericsson	not treated	2018-11-02 06:06:59	2018-11-02 06:44:53
R2-1818439	Clarification on the initial state of DRX	Erics	postponed	2018-11-02 06:07:00	2018-11-02 06:44:53
R2-1818440	Clarifications to PHR and SUL	Erics	not	2018-11-02 06:07:00	2018-11-02 06:44:53
R2-1818441	Removing NG-RAN specific statements	Ericsson,	revised	2018-11-02 06:07:01	2018-11-02 06:44:53
R2-1818442	Clarification to BSR trigger conditions	Ericsson	merged	2018-11-02 06:07:02	2018-11-02 06:44:53
R2-1818443	Clarification of measurement object for beam reporting of NR cells	Huawei,	revised	2018-11-02 06:13:44	2018-11-02 06:20:28
R2-1818444	CR for triggers for abortion of RRC establishment	Erics	withdrawn	2018-11-02 06:15:10	2018-11-09 08:22:54
R2-1818445	E573 Configuration of SRB1 during Resume	Erics	withdrawn	2018-11-02 06:15:11	2018-11-09 08:22:54
R2-1818446	Inter-band EN-DC Configured Output Power	Erics	revised	2018-11-02 06:15:13	2018-11-09 08:22:54
R2-1818447	IMT-2020 self-evalution: CP latency	Ericsson	not treated	2018-11-02 06:15:14	2018-11-09 08:22:54
R2-1818448	Report on e-mail-discussion on RRC Segmentation	Ericsson	not treated	2018-11-02 06:15:14	2018-11-07 11:04:32
R2-1818449	Further details on RRC segmentation	Ericsson	reserved	2018-11-02 06:15:14	
R2-1818450	Definition of UE AS Context	Erics	noted	2018-11-02 06:15:14	2018-11-02 07:01:06
R2-1818451	CR to 38.331 on UE AS Context - Alternative 2a - Include SuspendConfig	Ericsson	revised	2018-11-02 06:15:14	2018-11-02 07:01:06
R2-1818452	CR to 38.331 on UE AS Context - Alternative 2b - Exclude SuspendConfig	Ericsson	not treated	2018-11-02 06:15:15	2018-11-02 07:01:06
R2-1818453	Timer for RRC Setup establishment procedure (T300)	Erics	not treated	2018-11-02 06:15:16	2018-11-02 07:01:06
R2-1818454	Timer for RRC Resume Request (T319)	Erics	not treated	2018-11-02 06:15:16	2018-11-02 07:01:06
R2-1818455	Security Handling in Re-establishment procedure	Erics	not treated	2018-11-02 06:15:16	2018-11-02 07:01:06
R2-1818456	MAC configuration during Reject	Erics	noted	2018-11-02 06:15:16	2018-11-02 07:01:21
R2-1818457	CR for MAC configuration during Reject – Alt1	Erics	not treated	2018-11-02 06:15:16	2018-11-02 07:01:21
R2-1818458	CR for MAC configuration during Reject – Alt2	Erics	not treated	2018-11-02 06:15:17	2018-11-02 07:17:15
R2-1818459	HO support in Resume Procedure	Erics	not treated	2018-11-02 06:15:18	2018-11-02 07:17:15
R2-1818460	CR to 38.331 on HO support in Resume Procedure	Erics	not treated	2018-11-02 06:15:18	2018-11-02 07:17:15
R2-1818461	HO support in Setup Procedure	Erics	not treated	2018-11-02 06:15:19	2018-11-02 07:23:11
R2-1818462	CR to 38.331 on HO support in Setup Procedure	Erics	revised	2018-11-02 06:15:19	2018-11-02 07:23:11

R2-1818463	CR to 38.331 on missing ResumeRequest1 message	Erics	not treated	2018-11-02 06:15:20	2018-11-02 07:17:15
R2-1818464	Header Decompression for SLRB	Sam	agreed	2018-11-02 06:18:12	2018-11-02 06:34:56
R2-1818465	Layer 2 handling for bearer type change in MR-DC	Sam sung	not treated	2018-11-02 06:18:14	2018-11-02 06:34:56
R2-1818466	Analysis of Duplication with More Than 2 Legs	Sam	not treated	2018-11-02 06:18:16	2018-11-02 06:34:56
R2-1818467	PDCP Functions for NR Sidelink	Sam sung	not treated	2018-11-02 06:18:16	2018-11-02 06:34:56
R2-1818468	Reference Timing Delivery for Industrial IOT	Sam	not treated	2018-11-02 06:18:16	2018-11-02 06:34:56
R2-1818469	RLC Functions for NR Sidelink	Sam sung	not treated	2018-11-02 06:18:16	2018-11-02 06:34:56
R2-1818470	RLC Mode for Sidelink Unicast and Groupcast	Sam sung	not treated	2018-11-02 06:18:16	2018-11-02 06:34:56
R2-1818471	NCSG Support in NR	Hua	not treated	2018-11-02 06:19:03	2018-11-02 06:20:28
R2-1818472	RRC establishment cause in RRC reestablishment fallback case	LG Elect	postponed	2018-11-02 06:23:56	2018-11-02 06:34:19
R2-1818473	Feedback for sidelink unicast and groupcast in NR V2X_	LG Elect	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818474	LS on Feedback for sidelink unicast and groupcast in NR V2X_	LG Elect	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818475	Security for sidelink unicast and groupcast	LG Elect	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818476	LS on Security for sidelink unicast and groupcast	LG Elect	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818477	gNB knowledge about UEs in sidelink unicast and groupcast	LG Elect	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818478	LS on gNB knowledge about UEs in sidelink unicast and groupcast	LG Elect	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818479	PC5 RAT selection	LG	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818480	V2X Sidelink Connection	LG Elect	not treated	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818481	eV2X clean-up except for UL and SL prioritization in TS	LG	revised	2018-11-02 06:23:58	2018-11-02 06:34:19
R2-1818482	UL and SL prioritization in TS 36 321_alt2 (transmit z)	LG	revised	2018-11-02 06:23:59	2018-11-02 06:34:19
R2-1818483	Mandating same security algorithm for ciphering and integrity protection	Qual com	not pursued	2018-11-02 06:27:07	2018-11-02 06:41:55
R2-1818484	Proposed TP to NR V2X SL broadcast, UP aspects	LG Elect	revised	2018-11-02 06:35:25	2018-11-07 09:56:57
R2-1818485	Correction to the SP SRS Activation/Deactivation MAC CE	HUA WEI	merged	2018-11-02 06:36:48	2018-11-02 06:50:50
R2-1818486	CR on RadioLinkMonitoringConfig	Hua	not	2018-11-02 06:37:21	2018-11-06 12:42:54
R2-1818487	CR on description of k0	Hua	agreed	2018-11-02 06:37:22	2018-11-06 12:42:54
R2-1818488	Considerations of mobility for Non-terrestrial Networks	ETRI	not treated	2018-11-02 06:38:20	2018-11-03 10:07:13
R2-1818489	Disabling IncMon with EN-DC	Noki a,	not treated	2018-11-02 06:38:51	2018-11-02 06:41:08
R2-1818490	Miscellaneous corrections on small mistakes	Hua	not	2018-11-02 06:40:09	2018-11-02 06:43:24
R2-1818491	TP for System Level Aspects of NR-U	Qual com	agreed	2018-11-02 06:41:55	2018-11-02 06:53:55
R2-1818492	SR configuration for NR Sidelink Logical Channels	LG Elect	not treated	2018-11-02 06:49:32	2018-11-02 06:51:31
R2-1818493	Corrections for RRCConnectionSetup	SHA RP	withdrawn	2018-11-02 06:52:13	
R2-1818494	Some NR SA related corrections	Sam sung	agreed	2018-11-02 06:56:38	2018-11-02 07:08:08
R2-1818495	Paging and Mobility for MR-DC with RRC_INACTIVE	Qual com	not treated	2018-11-02 06:58:01	2018-11-02 06:59:00
R2-1818496	Report of 103B#38 NR SL unicast and groupcast	LG Elect	noted	2018-11-02 07:10:58	2018-11-08 12:06:22
R2-1818497	Correction to data inactivity monitoring	Goog	not	2018-11-02 07:37:45	2018-11-02 07:43:26
R2-1818498	Correction to data inactivity monitoring	Goog le Inc.	not pursued	2018-11-02 07:49:40	2018-11-02 07:52:20
R2-1818499	Capture use of motion information from motion sensors	Noki a, Noki a	agreed	2018-11-02 07:56:23	2018-11-02 08:58:32
R2-1818500	Capture use of motion information from motion sensors	Noki a,	agreed	2018-11-02 07:58:10	2018-11-02 08:58:32

R2-1818501	Clarification of the values for RangeToBestCell	Qualcom	agreed	2018-11-02 08:41:02	2018-11-02 16:50:23
R2-1818502	Idle/Inactive mode issues for NR-U	Qualcom	not treated	2018-11-02 08:41:41	2018-11-02 16:50:23
R2-1818503	Further details on RACH for NR-U	Qualcom	not treated	2018-11-02 08:42:16	2018-11-02 16:50:23
R2-1818504	TP for 2-step RACH in NR-U	Qualcomm Incorporat	agreed	2018-11-02 08:43:05	2018-11-02 16:50:23
R2-1818505	Handling of Resume Failure	Qualcom	agreed	2018-11-02 08:43:40	2018-11-02 16:50:23
R2-1818506	CR on SDAP reconfiguration handling	Qualcom	revised	2018-11-02 08:44:19	2018-11-02 16:50:23
R2-1818507	Split DRB-IP data rate for UL and DL	Qualcom	not treated	2018-11-02 08:45:15	2018-11-02 16:50:23
R2-1818508	Miscellaneous Corrections in Paging	Qualcom	agreed	2018-11-02 08:45:53	2018-11-02 16:50:23
R2-1818509	Clarification of Paging Monitoring Occasion	Qualcom	agreed	2018-11-02 08:46:28	2018-11-02 16:50:23
R2-1818510	Initial Random Access Procedure in Non-Terrestrial Networks (NTN)	Nomor	noted	2018-11-02 14:11:46	2018-11-02 15:14:03
R2-1818511	Considerations on MAC Timers and on RTD Compensation Offset in Non-Terrestrial Networks	Nomor	not treated	2018-11-02 14:14:06	2018-11-02 15:13:49
R2-1818512	Considerations on RLC Control Loops and Timings in Non-Terrestrial Networks (NTN)	Nomor	noted	2018-11-02 14:17:18	2018-11-02 15:14:28
R2-1818513	Considerations on PDCP Control Loops and Timings in Non-Terrestrial Networks (NTN)	Nomor	not treated	2018-11-02 14:22:34	2018-11-02 15:14:28
R2-1818514	Considerations on SDAP in Non-Terrestrial Networks (NTN)	Nomor	agreed	2018-11-02 14:22:54	2018-11-02 15:14:28
R2-1818515	Clarification on B events in EN-DC	Apple	agreed	2018-11-02 14:23:00	2018-11-02 14:52:39
R2-1818516	Securing F1-U in IAB arch 1a	Qualcom	revised	2018-11-04 01:11:07	2018-11-05 00:58:39
R2-1818517	Further Discussion on UE Capability ID based Solution	OPPO	not treated	2018-11-04 09:45:03	2018-11-09 11:58:01
R2-1818518	T302 timer exemption for MPS	Vencore Labs, OEC, First	not treated	2018-11-04 12:41:25	2018-11-06 01:00:15
R2-1818519	Clarification on SSB-based BM, RLM and BFD	ZTE Corp	agreed	2018-11-05 10:05:35	2018-11-05 11:05:36
R2-1818520	Miscellaneous clarifications	ZTE Corporati	agreed	2018-11-05 10:08:27	2018-11-05 11:05:36
R2-1818521	Report from session on Rel-15 LTE and NR idle/inactive mobility	Vice Chai	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818522	Report from session on NR UP, IAB SI, NR-U SI, NR IIoT SI	Vice Chai	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818523	Report from session on NB-IoT	Session	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818524	Report from session on MTC	Session	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818525	Report from session on Legacy LTE, Rel-15 LTE, and NR NTN SI,	Session	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818526	Report from session on Rel-15 Positioning WI	Session	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818527	Report from session on LTE V2X and NR V2X	Sess	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818528	Report from session on Rel-16 LTE Mobility Enhancements WI	Session	approved	2018-11-04 01:04:33	2018-11-21 06:18:03
R2-1818529	CR to 38.331 on removing FFS of locationInfo	Qualcom	revised	2018-11-05 10:29:02	2018-11-05 13:05:05
R2-1818530	Miscellaneous corrections in TS 36.331 on eV2X	Hua	revised	2018-11-05 10:52:58	2018-11-06 12:42:54

R2-1818531	Extension of overheating indication parameters	Ericsson	not treated	2018-11-05 11:04:59	2018-11-05 13:37:39
R2-1818532	Clarification to no barring configuration for Implicit UAC	Nokia,	withdrawn	2018-11-05 11:34:25	2018-11-06 12:42:54
R2-1818533	CR to 38.331 on RNI-Value	Qualcom	not pursued	2018-11-05 11:47:31	2018-11-06 12:42:54
R2-1818534	TR 38.874 v061	Qualcom	revised	2018-11-05 15:29:32	2018-11-05 17:47:06
R2-1818535	Clarification on basic voice support	Rapp	agreed	2018-11-05 22:04:46	2018-11-06 13:18:31
R2-1818536	Slice Aware Access Control	Nokia,	agreed	2018-11-05 22:08:41	2018-11-06 13:18:31
R2-1818537	Clarification on dynamic grant override configured grant	vivo, Rapp	revised	2018-11-05 22:14:21	2018-11-07 00:51:57
R2-1818538	Addition of RAN specific Access Category	Nokia,	agreed	2018-11-06 10:59:35	2018-11-06 13:18:31
R2-1818539	Addition of RAN specific Access Category	Nokia,	agreed	2018-11-06 11:01:11	2018-11-06 13:18:31
R2-1818540	Clarification to no barring configuration for Implicit UAC	Nokia,	agreed	2018-11-06 11:02:48	2018-11-06 13:18:31
R2-1818541	Correction to Access Category and barring config determination for Implicit UAC	Nokia,	agreed	2018-11-06 11:09:55	2018-11-06 13:18:31
R2-1818542	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia,	revised	2018-11-06 11:12:21	2018-11-06 13:18:31
R2-1818543	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia,	revised	2018-11-06 11:13:25	2018-11-06 13:18:31
R2-1818544	IAB QoS implementation options and roadmap	Telstra	not treated	2018-11-06 11:23:22	2018-11-06 23:08:41
R2-1818545	Addition of selected BC in AS-Context for EN-DC	NTT DOC	revised	2018-11-06 11:36:49	2018-11-07 01:10:26
R2-1818546	Email discussion-[103bis#35][NR/V2X] V2X	Hua	revised	2018-11-06 12:12:21	2018-11-07 09:56:57
R2-1818547	TP to TR 38.885 on NR SL design, CP aspects	Huawei,	revised	2018-11-06 12:38:35	2018-11-09 11:52:01
R2-1818548	Correction on CN type indication for Redirection from NR to E-UTRA	Qualcom	agreed	2018-11-06 14:11:13	2018-11-09 10:12:31
R2-1818549	CR on UE behaviour upon lack of TAC in SIB1	Nokia,	agreed	2018-11-06 14:13:17	2018-11-07 09:56:57
R2-1818550	Introduction of power boosting indicator for pi2BPSK waveform	IITH, IITM, CeW	revised	2018-11-06 14:16:31	2018-11-08 12:06:22
R2-1818551	Correction for PowerControl-related issues	Hua	agreed	2018-11-06 14:18:17	2018-11-08 11:52:43
R2-1818552	Correction to PDCP statusReportRequired	LG	agreed	2018-11-06 14:19:53	2018-11-07 00:51:57
R2-1818553	Introducing PDCP suspend procedure	LG	agreed	2018-11-06 14:22:17	2018-11-07 00:51:57
R2-1818554	Corrections on the IDLE state measurement	vivo	agreed	2018-11-07 01:03:11	2018-11-07 09:56:57
R2-1818555	Consideration on NR positioning architecture	CM	not treated	2018-11-07 08:52:26	2018-11-07 11:18:07
R2-1818556	Discussion on Handling CN Overload Issue for eLTE	OPPO	noted	2018-11-07 09:16:47	2018-11-07 09:58:06
R2-1818557	[Draft] Reply LS on Handling CN Overload in eLTE	OPPO	not treated	2018-11-07 09:22:01	2018-11-07 09:58:06
R2-1818558	Correction to 38331 in SRS-config	Hua	revised	2018-11-07 11:34:18	2018-11-08 11:52:43
R2-1818559	TS36.331 CR on [103bis#43][LTE/eLTE] Capture NR agreements	Intel Corp	revised	2018-11-07 11:42:45	2018-11-08 08:17:38
R2-1818560	Corrections for Inter-system intra-E-UTRA handover in TS36.331	Huawei,	agreed	2018-11-07 11:56:17	2018-11-08 13:41:50
R2-1818561	Correction to the system information in Handover Request message	Huawei,	agreed	2018-11-07 14:49:46	2018-11-08 13:41:50
R2-1818562	Corrections for handover between NR and E-UTRA	Hua	agreed	2018-11-07 14:50:48	2018-11-08 13:41:50
R2-1818563	Corrections for handover between NR and E-UTRA in TS36.331	Huawei,	agreed	2018-11-07 14:52:18	2018-11-08 13:41:49
R2-1818564	CR on frequencyInfoDL for handover	Hua	not	2018-11-07 14:54:13	2018-11-08 13:41:49
R2-1818565	Corrections for handover preparation in 36.331	Huawei,	revised	2018-11-07 14:55:14	2018-11-08 13:41:50
R2-1818566	Corrections for handover to E-UTRA in TS36.331	Hua	not	2018-11-07 14:56:29	2018-11-08 13:41:50
R2-1818567	Corrections for T304 expiry	Hua	not	2018-11-07 14:57:28	2018-11-08 13:41:50
R2-1818568	TR 38.874 v062	Qualcom	revised	2018-11-07 16:43:10	2018-11-07 20:51:09
R2-1818569	Securing F1-U in IAB arch 1a	Qualcom	revised	2018-11-07 16:44:39	2018-11-07 22:58:06
R2-1818570	Draft LS to CT1 on NAS indications in Release with Re-direct in resume scenarios triggered by NAS	Ericsson	not treated	2018-11-07 16:46:35	2018-11-08 12:06:22

R2-1818571	Further discussion for overheating mitigation in EN-DC	Sam	not treated	2018-11-08 09:43:17	2018-11-09 01:31:51
R2-1818572	Add p-Max for SUL in SIB2 and SIB4	CM	not treated	2018-11-08 09:44:56	2018-11-09 11:52:01
R2-1818573	Summary on NR positioning discussion in SA2	Intel	noted	2018-11-08 12:05:34	2018-11-08 14:44:04
R2-1818574	PLMN selection at the time of resume	ZTE Corp	not treated	2018-11-08 12:09:27	2018-11-08 14:44:04
R2-1818575	CR 38.331 on reporting selected PLMN in resumeComplete	ZTE Corp	not treated	2018-11-08 12:11:48	2018-11-08 14:44:04
R2-1818576	Discussion on SA2 LS on redundant transmission for	Erics	not treated	2018-11-08 21:32:31	2018-11-09 14:46:42
R2-1818577	[DRAFT] Reply LS on redundant transmission for URLLC	Ericsson	not treated	2018-11-08 21:37:03	2018-11-09 14:46:42
R2-1818578	CR to 38.331 on removing FFS of locationInfo	Qualcom	revised	2018-11-08 23:40:45	2018-11-09 00:15:40
R2-1818579	Release and Redirect in 2-step procedure	Ericsson,	not pursued	2018-11-09 10:15:04	2018-11-09 11:52:01
R2-1818580	Fallback indicated in DCI	Erics	noted	2018-11-09 12:35:40	2018-11-11 14:20:34
R2-1818581	Handling of missing fields in SIB1	Medi	revised	2018-11-09 17:44:01	2018-11-09 23:29:19
R2-1818582	Correction to PHR procedure in EN-DC	Qualcom	revised	2018-11-10 10:22:36	2018-11-10 18:41:55
R2-1818583	Correction to PHR procedure in dual connectivity	Qualcom	revised	2018-11-10 10:29:29	2018-11-10 18:41:55
R2-1818584	Correction to the condition for constructing end-marker control PDU	Qualcom	revised	2018-11-10 11:42:38	2018-11-10 18:41:55
R2-1818585	De-activation of security for DRBs	Intel	not treated	2018-11-10 12:20:49	2018-11-11 02:33:20
R2-1818586	Correction to UE capability procedures in 38.331	Erics	revised	2018-11-12 12:54:15	2018-11-21 06:18:03
R2-1818587	Correction to UE capability procedures in 36.331	Erics	revised	2018-11-12 12:55:29	2018-11-21 06:18:03
R2-1818588	Correction of SN Initiated SN Modification procedure for Measurement Gap	Ericsson,	revised	2018-11-12 12:57:34	2018-11-21 06:18:03
R2-1818589	Defining inter-system and intra-system handover	Ericsson,	revised	2018-11-12 13:00:28	2018-11-21 06:18:03
R2-1818590	Correction regarding key deletion at state transition to RRC IDLE	Ericsson,	revised	2018-11-12 13:01:38	2018-11-21 06:18:03
R2-1818591	Correction of activation of Scells	Ericsson,	revised	2018-11-12 13:02:33	2018-11-21 06:18:03
R2-1818592	[103bis#13] Normative Annex of CRs Containing Early Implementable Features and Corrections	NTT DOC	revised	2018-11-21 02:50:03	2018-11-21 03:00:00
R2-1818593	NR-NTN: Tracking Areas Management	Fraunhofe	not treated	2018-11-21 02:58:50	2018-11-21 03:00:00
R2-1818594	Sensor Assistance Data Elements Correction	Polaris	agreed	2018-11-21 02:58:50	2018-11-21 03:00:00
R2-1818595	Mandatory support of skipFallbackCombinations-r13 and diffFallbackCombReport-r14	KDDI, China Mobi	agreed	2018-11-21 02:58:51	2018-11-21 03:00:00
R2-1818596	MBMS reception in Receive Only Mode	Qualcom	agreed	2018-11-21 02:58:52	2018-11-21 03:00:00
R2-1818597	MBMS reception in Receive Only Mode (ROM)	Qualcom	agreed	2018-11-21 02:58:53	2018-11-21 03:00:00
R2-1818598	CR to mandate FGI 103 and 104	Huawei, HiSil	endorsed	2018-11-21 02:58:54	2018-11-21 03:00:00
R2-1818599	CR for T312 on LTE HetNet mobility	Intel	agreed	2018-11-21 02:58:55	2018-11-21 03:00:00
R2-1818600	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia,	agreed	2018-11-21 02:58:56	2018-11-21 03:00:00
R2-1818601	Correction on maximum symbols for PUSCH transmission in UpPTS	Nokia,	agreed	2018-11-21 02:58:57	2018-11-21 03:00:00
R2-1818602	Clarification to UE capabilities for CA	Nokia,	withdrawn	2018-11-21 02:58:58	
R2-1818603	Clarification to UE capabilities for CA	Nokia,	withdrawn	2018-11-21 02:58:59	
R2-1818604	Clarification to UE capabilities for CA	Nokia,	withdrawn	2018-11-21 02:59:00	
R2-1818605	Corrections to eCA configurations	Nokia,	withdrawn	2018-11-21 02:59:01	2018-11-21 03:00:00

R2-1818606	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia, Nokia	agreed	2018-11-21 02:59:02	2018-12-03 17:09:10
R2-1818607	CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation	ZTE Corp	revised	2018-11-21 02:59:03	2018-11-21 03:00:00
R2-1818608	Support for Logging of 'Any cell selection' state	LG Electronics, SK	revised	2018-11-21 02:59:05	2018-11-21 03:00:00
R2-1818609	Signalling of CRS IM and CCH-IM for UE cat 1bis and	Intel	revised	2018-11-21 02:59:06	2018-11-21 03:00:00
R2-1818610	Correction of field descriptions for NW based CRS interference mitigation	Ericsson	agreed	2018-11-21 02:59:07	2018-11-21 03:00:00
R2-1818611	HARQ process ID for synchronous HARQ operation	Nokia,	agreed	2018-11-21 02:59:09	2018-11-21 03:00:00
R2-1818612	SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information	Ericsson,	revised	2018-11-21 02:59:10	2018-11-21 03:00:00
R2-1818613	[DRAFT] Reply LS on inclusion of selected PLMN into the complete message	Samsung	withdrawn	2018-11-21 02:59:12	
R2-1818614	Correction to the condition for constructing end-marker control PDU	Qualcom	not pursued	2018-11-21 02:59:12	2018-11-21 03:00:00
R2-1818615	[DRAFT] Reply LS on supporting low latency and low jitter during handover procedure	OPPO	revised	2018-11-21 02:59:13	2018-11-21 03:00:00
R2-1818616	Introduction of power boosting indicator for pi2BPSK waveform	IITH, IITM, CeWIT, Noki	agreed	2018-11-21 02:59:13	2018-11-30 13:38:07
R2-1818617	Corrections on handover for E-UTRA connected to 5GC	Huawei, HiSilicon	revised	2018-11-21 02:59:13	2018-11-28 01:49:12
R2-1818618	Advanced processing time configuration for PDSCH and PUSCH	Qualcomm Incorporat	agreed	2018-11-21 02:59:13	2018-11-28 15:22:23
R2-1818619	Corrections on handover for E-UTRA connected to 5GC	Huawei, HiSilicon	agreed	2018-11-21 02:59:13	2018-11-28 12:15:20
R2-1818620	nn	Tero'	reserved	2018-11-21 02:59:13	
R2-1818621	Reply LS to SA2 on QoS monitoring	Hua	revised	2018-11-21 02:59:13	2018-11-21 03:00:00
R2-1818622	Transport of NAS Messages	Rapp	agreed	2018-11-21 02:59:13	2018-11-21 03:00:00
R2-1818623	Notification Control	Rapp	agreed	2018-11-21 02:59:14	2018-11-21 03:00:00
R2-1818624	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei,	revised	2018-11-21 02:59:15	2018-11-21 03:00:00
R2-1818625	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei,	revised	2018-11-21 02:59:16	2018-11-21 03:00:00
R2-1818626	Correction on interFreqNeighCellList	Nokia, Noki	agreed	2018-11-21 02:59:17	2018-11-21 03:00:00
R2-1818627	Correction on interFreqNeighCellList	Nokia, Noki	agreed	2018-11-21 02:59:18	2018-11-21 03:00:00
R2-1818628	Correction to additional SIB1 in eFeNB-IoT	ZTE Corp	agreed	2018-11-21 02:59:19	2018-11-21 03:00:00
R2-1818629	Clarification of features not supported in NB-IoT	Huawei, HiSil	agreed	2018-11-21 02:59:20	2018-11-21 03:00:00
R2-1818630	Miscellaneous corrections and cleanup for NB-IoT Rel-	Hua	agreed	2018-11-21 02:59:21	2018-11-21 03:00:00
R2-1818631	Introduction of TDD UL/DL configuration for NB-IoT in 36.355	Huawei,	agreed	2018-11-21 02:59:22	2018-11-21 03:00:00

R2-1818632	Correction to gap determination for the wake-up signal	Huawei,	agreed	2018-11-21 02:59:23	2018-11-21 03:00:00
R2-1818633	RAN2 agreements for Rel-16 additional enhancements for NB-IoT and MTC	Document	endorsed	2018-11-21 02:59:24	2018-11-26 19:36:42
R2-1818634	Correction to start of RAR window for NPRACH fmt2 in 36.321	Huawei,	revised	2018-11-21 02:59:24	2018-11-21 03:00:00
R2-1818635	Correction to start of RAR window for NPRACH fmt2 in 36.321	Huawei, HiSil	agreed	2018-11-21 02:59:25	2018-11-21 03:00:00
R2-1818636	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei, HiSilicon	withdrawn	2018-11-21 02:59:26	
R2-1818637	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei, HiSilicon	agreed	2018-11-21 02:59:26	2018-11-26 19:36:42
R2-1818638	Discard the AS context and ResumeId when initiating the establishment of a RRC Connection	Huawei, HiSilicon	agreed	2018-11-21 02:59:26	2018-11-26 19:36:42
R2-1818639	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818640	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818641	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818642	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818643	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818644	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818645	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818646	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818647	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818648	nn	Brian	reserved	2018-11-21 02:59:26	
R2-1818649	Description of RLM aspects	ZTE Corporati	agreed	2018-11-21 02:59:26	2018-11-21 03:00:00
R2-1818650	Clarifications on dynamic scheduling	vivo, Rapporteu	agreed	2018-11-21 02:59:27	2018-11-21 03:00:00
R2-1818651	Corrections on paging monitoring and SI acquisition in RRC_CONNECTED for BL UEs and UEs in CE	Ericsson,	agreed	2018-11-21 02:59:28	2018-11-21 03:00:00
R2-1818652	Corrections and clarifications for MO EDT	Ericsson	agreed	2018-11-21 02:59:29	2018-11-21 03:00:00
R2-1818653	Corrections to EDT for definition, Msg3, preambles, and MAC header structure	Huawei,	agreed	2018-11-21 02:59:30	2018-11-21 03:00:00
R2-1818654	EDT when resuming in a new eNB	Intel Corp	agreed	2018-11-21 02:59:31	2018-11-21 03:00:00
R2-1818655	LS reply on successful completion of early data transmission when eNodeB decided not to have RRC	Ericsson	revised	2018-11-21 02:59:32	2018-11-21 03:00:00
R2-1818656	Correction of fallback cases in UP-EDT	Ericsson	agreed	2018-11-21 02:59:32	2018-11-21 03:00:00
R2-1818657	Clarification to UE states for EDT	Huawei, HiSilicon, Nokia, Nokia	agreed	2018-11-21 02:59:33	2018-11-21 03:00:00
R2-1818658	Remaining MO EDT issues	Ericsson	revised	2018-11-21 02:59:34	2018-11-21 03:00:00
R2-1818659	Corrections on EDT	Ericsson	agreed	2018-11-21 02:59:35	2018-11-21 03:00:00
R2-1818660	Exclusion of 1.4 MHz system bandwidth for flexible starting PRB	Ericsson	agreed	2018-11-21 02:59:37	2018-11-21 03:00:00
R2-1818661	Clarification on when UL data transmission in EDT is not considered successful	Huawei,	revised	2018-11-21 02:59:38	2018-11-21 06:18:04
R2-1818662	LS on RSS based measurements signalling	RAN	approved	2018-11-21 02:59:38	2018-11-21 03:00:00

R2-1818663	Additional Corrections to EDT in 36.331	Huawei,	revised	2018-11-21 02:59:38	2018-11-21 03:00:00
R2-1818664	[DRAFT] Reply LS on UP Integrity Protection for Small Data in Early Data Transfer	Huawei	revised	2018-11-21 02:59:39	2018-11-21 03:00:00
R2-1818665	Correction on the use of PRACH resource pool for EDT	Intel	revised	2018-11-21 02:59:39	2018-11-21 03:00:00
R2-1818666	Reply LS on UP Integrity Protection for Small Data in Early Data Transfer	RAN2	approved	2018-11-21 02:59:41	2018-11-21 03:00:00
R2-1818667	Additional Corrections to EDT in 36.331	Huawei, HiSil	agreed	2018-11-21 02:59:41	2018-11-21 03:00:00
R2-1818668	Indications of RRC connection resumption and establishment to upper layers during EDT	Ericsson, Hua	agreed	2018-11-21 02:59:43	2018-11-21 03:00:00
R2-1818669	Reply LS on successful completion of early data transmission when eNodeB decided not to have RRC	RAN2	approved	2018-11-21 02:59:45	2018-11-21 03:00:00
R2-1818670	Correction on the use of PRACH resource pool for EDT	Intel	revised	2018-11-21 02:59:45	2018-11-21 03:00:00
R2-1818671	Clarification on when UL data transmission in EDT is not considered successful	Huawei, HiSilicon	agreed	2018-11-21 02:59:47	2018-11-27 11:53:25
R2-1818672	Correction on the use of PRACH resource pool for EDT	Intel Corporation	agreed	2018-11-21 02:59:47	2018-11-30 03:12:47
R2-1818673	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818674	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818675	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818676	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818677	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818678	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818679	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818680	nn	Emr	reserved	2018-11-21 02:59:47	
R2-1818681	Clarification on final suitability check	Hua	agreed	2018-11-21 02:59:47	2018-11-21 03:00:00
R2-1818682	Introduction of MICO mode	Erics	revised	2018-11-21 02:59:51	2018-11-21 03:00:00
R2-1818683	CR on 38.304 corrections	Intel	agreed	2018-11-21 02:59:52	2018-11-21 03:00:00
R2-1818684	Correction for missing fields in SIB2 and SIB4	Erics	agreed	2018-11-21 02:59:53	2018-11-21 03:00:00
R2-1818685	Corrections on storing and discarding UE AS context	OPP	revised	2018-11-21 02:59:55	2018-11-21 03:00:00
R2-1818686	CR on UE behavior if emergency call is not supported in the current cell	ZTE Corporati	not treated	2018-11-21 02:59:57	2018-11-21 03:00:00
R2-1818687	Correction to UE behavior for barred cell	Sam	revised	2018-11-21 02:59:58	2018-11-21 03:00:00
R2-1818688	Correction to cell access barring alleviation in cell	Hua	agreed	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818689	Miscellaneous corrections related to idle mode SIBs	Erics	agreed	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818690	Correction to Q-RxLevMin and Q-QualMin value range	Erics	revised	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818691	Supporting MME and AMF overload control	Ericsson	revised	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818692	Ignore NCC on reception of resume message	ZTE Corp	agreed	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818693	Miscellaneous corrections on E-UTRA connected to 5GCN	Intel Corp	agreed	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818694	Clarification on s-Measure for IDLE mode measurements	Nokia,	agreed	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818695	Correction on PDCP duplication	Huawei,	agreed	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818696	Support of multiple UL SPS configurations and configuration of repetition	Ericsson	agreed	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818697	Corrections to procedure upon Reception of the RRCConnectionSetup	Qualcom	withdrawn	2018-11-21 03:00:09	
R2-1818698	Clarification of primary and secondary RLC entity	Hua	revised	2018-11-21 03:00:00	2018-11-21 03:00:00
R2-1818699	nn	HuN	reserved	2018-11-21 03:00:11	
R2-1818700	Corrections to CellSelectionInfo in SIB1 and SIB4	Hua	revised	2018-11-21 15:27:54	2018-11-21 17:56:13
R2-1818701	Correction to Q-QualMin value range	Ericsson	agreed	2018-11-21 15:27:58	2018-11-30 03:12:47

R2-1818702	Corrections to CellSelectionInfo in SIB1 and SIB4	Huawei, HiSilicon	agreed	2018-11-21 15:27:58	2018-11-30 09:22:30
R2-1818703	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818704	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818705	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818706	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818707	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818708	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818709	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818710	nn	Nath	reserved	2018-11-21 15:27:58	
R2-1818711	Correction on HARQ re-transmission resource	OPPO	revised	2018-11-21 15:27:58	2018-11-21 17:56:13
R2-1818712	Correction on HARQ re-transmission resource	OPPO	agreed	2018-11-21 15:27:59	2018-11-21 17:56:13
R2-1818713	Correction on UE capability for eV2X	OPPO,	agreed	2018-11-21 15:28:00	2018-11-21 17:56:13
R2-1818714	Correction on PDCP for eV2X	OPPO, Erics	agreed	2018-11-21 15:28:01	2018-11-21 17:56:13
R2-1818715	Correction on V2X sidelink communication in TS	Hua	agreed	2018-11-21 15:28:02	2018-11-22 10:02:43
R2-1818716	Miscellaneous corrections in TS 36.331 on eV2X	Hua	agreed	2018-11-21 15:28:03	2018-11-21 17:56:13
R2-1818717	eV2X clean-up except for UL and SL prioritization in TS	LG	agreed	2018-11-21 15:28:04	2018-11-21 17:56:13
R2-1818718	UL and SL prioritization in TS 36 321 - alt2	LG Elect	agreed	2018-11-21 15:28:05	2018-11-21 17:56:13
R2-1818719	CR on carrier frequency indication in	Hua	agreed	2018-11-21 15:28:06	2018-11-21 17:56:13
R2-1818720	Correction on UE capability for eV2X	OPPO,	agreed	2018-11-21 15:28:07	2018-11-21 17:56:13
R2-1818721	Clarification for SLSS_TxDisabled	LG	revised	2018-11-21 15:28:08	2018-11-21 17:56:13
R2-1818722	Discussion on remaining issue in carrier selection	ZTE,	noted	2018-11-21 15:28:09	2018-11-21 17:56:13
R2-1818723	Clarification to Mode-3 Procedures	Erics	agreed	2018-11-21 15:28:09	2018-11-21 17:56:13
R2-1818724	Clarification to Sidelink PDCP Duplication	Erics	revised	2018-11-21 15:28:10	2018-11-21 17:56:13
R2-1818725	Clarification for limited Tx capability	LG	postponed	2018-11-21 15:28:11	
R2-1818726	Correction to SLRB and state variables for sidelink transmission	ASUSTe	agreed	2018-11-21 15:28:12	2018-11-21 17:56:13
R2-1818727	[DRAFT] LS on NR V2X agreements	Hua	revised	2018-11-21 15:28:13	2018-11-21 17:56:13
R2-1818728	Email discussion-[103bis#35][NR/V2X] V2X	Hua	revised	2018-11-21 15:28:13	2018-11-21 17:56:13
R2-1818729	TP to TR 38.885 on NR SL design, CP aspects	Huawei,	revised	2018-11-21 15:28:13	2018-11-21 17:56:13
R2-1818730	Proposed TP to NR V2X SL broadcast, UP aspects	LG Elect	agreed	2018-11-21 15:28:13	2018-11-21 17:56:13
R2-1818731	nn	Kyeo	reserved	2018-11-21 15:28:13	
R2-1818732	TP for V2X RAT selection of SL	ZTE	revised	2018-11-21 15:28:13	2018-11-21 17:56:13
R2-1818733	LS on RAT selection for SL	ZTE	revised	2018-11-21 15:28:13	2018-11-21 17:56:13
R2-1818734	Clarification for SLSS_TxDisabled	LG	revised	2018-11-21 15:28:13	2018-11-21 17:56:13
R2-1818735	Clarification to Sidelink PDCP Duplication	Erics	agreed	2018-11-21 15:28:14	2018-11-21 17:56:13
R2-1818736	Clarification to TX Carrier (re)-Selection for V2X Sidelink Communication	Ericsson	agreed	2018-11-21 15:54:17	2018-11-21 17:56:13
R2-1818737	Email discussion-[103bis#35][NR/V2X] V2X	Hua	agreed	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818738	LS on NR V2X agreements	RAN	approved	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818739	TP to TR 38.885 on NR SL design, CP aspects	Huawei,	agreed	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818740	TP for V2X RAT selection of SL	ZTE	agreed	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818741	Text proposal for FFS resolution	KDD	revised	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818742	Securing F1-U in IAB arch 1a	Qualcom	agreed	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818743	[DRAFT] LS on IAB security	Erics	revised	2018-11-21 15:54:18	2018-11-21 17:56:13
R2-1818744	TP for TR 38.874 on bearer mapping for the unified design	Samsung	withdrawn	2018-11-21 15:28:15	
R2-1818745	TP QoS parameters for IAB QoS handling	Huawei	revised	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818746	Route Adaptation Upon Backhaul Failure	Intel	revised	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818747	IAB agreements without TP	Qualcom	revised	2018-11-21 15:28:15	2018-11-21 17:56:13
R2-1818748	LS on IAB security	RAN	approved	2018-11-21 16:11:17	2018-11-21 17:56:13
R2-1818749	Miscellaneous corrections	Sam	agreed	2018-11-21 15:28:15	2018-11-21 17:56:13

R2-1818750	Text proposal capturing the system information scheduling for NR-U	Ericsson	agreed	2018-11-21 15:28:16	2018-11-21 17:56:13
R2-1818751	[TP on TDM solutions on the table for increased paging opportunities]	Qualcom	agreed	2018-11-21 15:28:16	2018-11-21 17:56:13
R2-1818752	Clarification on BWP ID in MAC CE	Spreadtru	revised	2018-11-21 15:28:16	2018-11-21 17:56:13
R2-1818753	Msg3 handling for swtiching from CBRA to CFRA	Samsung	revised	2018-11-21 15:28:17	2018-11-21 17:56:13
R2-1818754	Corrections for alignments in RACH resource selection	Hua	agreed	2018-11-21 15:28:18	2018-11-21 17:56:13
R2-1818755	Correction on the RO selection for PDCCH order triggered RA	Huawei,	agreed	2018-11-21 15:28:19	2018-11-21 17:56:13
R2-1818756	Correction to RA prioritization	Nokia,	agreed	2018-11-21 15:54:22	2018-11-21 17:56:13
R2-1818757	Correction for Msg3 grant overlapping with another UL	CAT	revised	2018-11-21 15:28:20	2018-11-21 17:56:13
R2-1818758	RA Preamble Selection Procedure	Samsung	agreed	2018-11-21 15:28:21	2018-11-21 17:56:13
R2-1818759	Clarfication on PHR timing	Nokia, Noki	revised	2018-11-21 15:28:22	2018-11-21 17:56:13
R2-1818760	Clarification on BWP ID in MAC CE	Spreadtrum Com	revised	2018-11-21 15:28:23	2018-11-21 17:56:13
R2-1818761	Correction on PHR references	Nokia, Noki	agreed	2018-11-21 15:28:23	2018-11-21 17:56:13
R2-1818762	IAB agreements without TP	Qualcom	agreed	2018-11-21 15:28:25	2018-11-21 17:56:13
R2-1818763	Text proposal for FFS resolution	KDD	agreed	2018-11-21 15:28:25	2018-11-21 17:56:13
R2-1818764	TP QoS parameters for IAB QoS handling	Huawei	revised	2018-11-21 15:28:25	2018-11-21 17:56:13
R2-1818765	Route Adaptation Upon Backhaul Failure	Intel	agreed	2018-11-21 15:28:25	2018-11-21 17:56:13
R2-1818766	TP for RAN2#104 CP agreements and Conclusion	Qualcom	revised	2018-11-21 15:28:25	2018-11-21 17:56:13
R2-1818767	CR to 38.321 for bwp-Inactivetimer	ZTE,	not	2018-11-21 15:28:25	2018-11-21 17:56:13
R2-1818768	nn	Joha	reserved	2018-11-21 15:28:26	
R2-1818769	Clarification to PDCCH monitoring	Erics	postponed	2018-11-21 15:28:26	
R2-1818770	Clarfication on PHR timing	Nokia, Noki	revised	2018-11-21 15:28:28	2018-11-21 17:56:13
R2-1818771	Clarification to value table for recommended bit rate	Qual	agreed	2018-11-21 15:28:29	2018-11-21 17:56:13
R2-1818772	nn	Joha	reserved	2018-11-21 15:28:30	
R2-1818773	Correction on BSR triggered SR	Huawei, HiSil	agreed	2018-11-21 15:28:30	2018-11-21 17:56:13
R2-1818774	Clarification on LCH-to-cell restriction	Apple, ASUSTeK, CATT, China Telecom, Chin	agreed	2018-11-21 15:28:31	2018-11-21 17:56:13
R2-1818775	LS on UL HARQ operation for SUO case 1	RAN	approved	2018-11-21 15:28:32	2018-11-21 17:56:13
R2-1818776	Allow padding when UL grant size is larger than 8 bytes	OPP	agreed	2018-11-21 15:28:32	2018-11-21 17:56:13
R2-1818777	Ambiguity of POLL_SN update timing	LG	agreed	2018-11-21 15:28:33	2018-11-21 17:56:13
R2-1818778	nn	Joha	reserved	2018-11-21 15:28:34	
R2-1818779	TP on TSN requirements	Nokia,	agreed	2018-11-21 15:28:34	2018-11-21 17:56:13
R2-1818780	LS Draft for Intra-UE Prioritization	Nokia,	revised	2018-11-21 15:28:34	2018-11-21 17:56:13

R2-1818781	TP on Intra-UE Prioritization Scenarios	Nokia,	revised	2018-11-21 15:28:34	2018-11-21 17:56:13
R2-1818782	nn	Joha	not treated	2018-11-21 15:28:34	2018-11-21 17:56:13
R2-1818783	nn	Joha	not treated	2018-11-21 15:28:34	2018-11-21 17:56:13
R2-1818784	TP for RAN2#104 CP agreements and Conclusion	Qualcom	revised	2018-11-21 15:28:34	2018-11-21 17:56:13
R2-1818785	TP for RAN2#104 CP agreements and Conclusion	Qualcom	agreed	2018-11-21 15:28:34	2018-11-21 17:56:13
R2-1818786	Msg3 handling for switching from CBRA to CFRA	Sam	agreed	2018-11-21 15:28:35	2018-11-21 17:56:13
R2-1818787	Reply LS on redundant transmission for URLLC	Hua	revised	2018-11-21 15:54:35	2018-11-21 17:56:13
R2-1818788	Correction to PHR procedure in EN-DC	Qualcom	revised	2018-11-21 15:28:36	2018-11-21 17:56:13
R2-1818789	Correction to PHR procedure in dual connectivity	Qualcom	revised	2018-11-21 15:28:37	2018-11-21 17:56:13
R2-1818790	TP on QoS parameters for IAB QoS handling	Huawei	agreed	2018-11-21 15:28:39	2018-11-21 17:56:13
R2-1818791	Correction for Msg3 grant overlapping with another UL	CAT	agreed	2018-11-21 15:28:39	2018-11-21 17:56:13
R2-1818792	Handling of overlapped configured grant and UL grant received in RAR	Huawei,	agreed	2018-11-21 15:28:40	2018-11-21 17:56:13
R2-1818793	Correction to PHR procedure in EN-DC	Qualcom	revised	2018-11-21 15:28:41	
R2-1818794	Correction to PHR procedure in dual connectivity	Qualcom	revised	2018-11-21 15:28:42	
R2-1818795	LS on Intra-UE Prioritization/Multiplexing	RAN	approved	2018-11-21 15:28:43	2018-11-21 17:56:13
R2-1818796	Reply LS on redundant transmission for URLLC	RAN	approved	2018-11-21 15:54:40	2018-11-21 17:56:13
R2-1818797	TP on Intra-UE Prioritization Scenarios	Nokia,	agreed	2018-11-21 15:28:43	2018-11-21 17:56:13
R2-1818798	Correction to PHR procedures in dual-connectivity	Qualcom	revised	2018-11-21 15:28:43	2018-11-21 17:56:13
R2-1818799	Correction to PHR procedures in EN-DC	Qualcom	revised	2018-11-21 15:28:44	2018-11-21 17:56:13
R2-1818800	[Draft] LS on PHR procedure in dual-connectivity	Qual	revised	2018-11-21 15:28:44	2018-11-21 18:02:14
R2-1818801	[DRAFT] LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service	Samsung	revised	2018-11-21 15:28:44	2018-11-28 12:17:09
R2-1818802	LS on agreements regarding UE behaviour in RRC_INACTIVE while going out-of-service	RAN2	available	2018-11-21 15:28:44	2018-11-26 19:36:42
R2-1818803	Clarfication on PHR timing for configured grant	Nokia, Noki	agreed	2018-11-21 15:28:45	2018-11-27 11:33:56
R2-1818804	LS on PHR timing	RAN2	revised	2018-11-21 15:28:45	2018-11-27 11:33:56
R2-1818805	Clarification on BWP ID in MAC CE	Spreadtrum Com	revised	2018-11-21 15:28:45	2018-11-27 12:10:42
R2-1818806	Introducing PDCP suspend procedure	LG Electronic	agreed	2018-11-21 15:28:45	2018-11-28 01:49:12
R2-1818807	LS on PHR timing	RAN2	approved	2018-11-21 15:28:45	2018-11-28 10:07:39
R2-1818808	Summary of email discussion [104#15NR] per CC UL DL modulation order capabilities(Spreadtrum)".	Spreadtrum Com	noted	2018-11-21 15:28:45	2018-11-30 03:34:39
R2-1818809	Clarification on BWP ID in MAC CE	Spreadtrum Com	agreed	2018-11-21 15:28:45	2018-11-29 00:53:30
R2-1818810	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818811	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818812	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818813	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818814	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818815	nn	Joha	reserved	2018-11-21 15:28:45	

R2-1818816	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818817	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818818	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818819	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818820	nn	Joha	reserved	2018-11-21 15:28:45	
R2-1818821	Clarification of AMF switch in RRC_INACTIVE	Ericsson,	agreed	2018-11-21 15:28:45	2018-11-21 18:02:14
R2-1818822	Corrections on the descriptions of active BWP	Huawei,	agreed	2018-11-21 15:28:46	2018-11-21 18:02:14
R2-1818823	SFN offset for OTDOA	Intel Corp	agreed	2018-11-21 15:28:48	2018-11-21 18:02:14
R2-1818824	CR on the carrier selection for random access	ITRI, Rapp	agreed	2018-11-21 15:28:50	2018-11-21 18:02:14
R2-1818825	Corrections on Multi-Radio dual connectivity	Ericsson,	agreed	2018-11-21 15:28:51	2018-11-21 18:02:14
R2-1818826	Defining inter-system and intra-system handover	Ericsson,	agreed	2018-11-21 15:28:52	2018-11-21 18:02:14
R2-1818827	Correction regarding key deletion at state transition to RRC_IDLE	Ericsson,	agreed	2018-11-21 15:28:53	2018-11-21 18:02:14
R2-1818828	Corrections to activation of SCells	Ericsson,	agreed	2018-11-21 15:28:55	2018-11-21 18:02:14
R2-1818829	Relation between SSB and SS-Burst	Ericsson, ZTE Corp	agreed	2018-11-21 15:28:56	2018-11-21 18:02:14
R2-1818830	Clarification on power ramping counter	OPPO,	agreed	2018-11-21 15:28:58	2018-11-21 18:02:14
R2-1818831	Section on UE capability retrieval in MR-DC	Nokia, Noki	revised	2018-11-21 15:28:59	2018-11-27 11:33:56
R2-1818832	Corrections on RRC transfer procedure in EN-DC	Ericsson,	revised	2018-11-21 15:29:01	2018-11-21 18:02:14
R2-1818833	Correction of SN Initiated SN Modification procedure for Measurement Gap	Ericsson,	revised	2018-11-21 15:29:02	2018-11-21 18:02:14
R2-1818834	Operators' joint proposal on IP termination for the IAB architecture	KDDI,	noted	2018-11-21 15:29:03	2018-11-21 18:02:14
R2-1818835	Removing NG-RAN specific statements	Ericsson,	agreed	2018-11-21 15:29:03	2018-11-21 18:02:14
R2-1818836	[DRAFT] LS on IAB security	Erics	revised	2018-11-21 15:29:04	2018-11-21 18:02:14
R2-1818837	[DRAFT] LS on RRC processing delay for BWP	Noki	revised	2018-11-21 15:29:04	2018-11-21 18:02:14
R2-1818838	Miscellaneous minor corrections	Erics	revised	2018-11-21 15:29:05	2018-11-21 18:02:14
R2-1818839	[CR for UE capability changes]	Erics	withdrawn	2018-11-21 15:29:05	
R2-1818840	Cleanup of references to L1 specifications	Erics	agreed	2018-11-21 15:29:08	2018-11-21 18:02:14
R2-1818841	Correction for SSB power	Hua	agreed	2018-11-21 15:29:09	2018-11-22 13:59:30
R2-1818842	Introduction of cell level rate matching parameters in ServingCellConfig	ZTE Corporati	agreed	2018-11-21 15:29:10	2018-11-21 18:02:14
R2-1818843	Correction for support of initial downlink BWP	Erics	agreed	2018-11-21 15:29:10	2018-11-21 18:02:14
R2-1818844	Clarification on phr-Type2OtherCell	Sam	agreed	2018-11-21 15:29:12	2018-11-21 18:02:14
R2-1818845	Reply LS on UP-EDT procedure when resuming in a new eNB (R3-187034; contact: Intel)	RAN3	noted	2018-11-21 15:29:13	2018-11-21 18:02:14
R2-1818846	CORESET#0 configuration when SIB1 is not broadcast	ZTE Corp	revised	2018-11-21 15:29:13	2018-11-21 18:02:14
R2-1818847	Correction to ControlResourceSetZero	ZTE Corp	agreed	2018-11-21 15:29:14	2018-11-21 18:02:14
R2-1818848	Corrections on SearchSpace configuration	Hua	agreed	2018-11-21 15:29:15	2018-11-22 13:59:30
R2-1818849	CR on starting bit of Format 2-3	Hua	agreed	2018-11-21 15:29:16	2018-11-21 18:02:14
R2-1818850	Search space configuration for DCI format 2_0 monitoring	Qualcom	agreed	2018-11-21 15:29:17	2018-11-21 18:02:14
R2-1818851	Correction to RA prioritization	Nokia,	revised	2018-11-21 15:29:18	2018-11-21 18:02:14
R2-1818852	CR on PDCCH blind decoding capability coordination (approach 1)	Samsung	not treated	2018-11-21 15:29:19	2018-11-21 18:02:14
R2-1818853	Discussion on SUL for NR-U	Goog	not treated	2018-11-21 15:29:19	2018-11-21 18:02:14
R2-1818854	Clarification of the applicability of 38.331 to EN-DC	Hua	agreed	2018-11-21 15:29:19	2018-11-21 18:02:14

R2-1818855	CR on PSCell (SPCell of SN) change (36.331)	Samsung	revised	2018-11-21 15:29:20	2018-11-21 18:02:14
R2-1818856	EN-DC configurations upon re-establishment	Qualcomm Incorporat	agreed	2018-11-21 15:29:21	2018-11-28 10:07:39
R2-1818857	Reply LS on RRC cause in RRC reestablishment fallback (R3-187082; contact: Huawei)	RAN3	noted	2018-11-21 15:29:22	2018-11-21 18:02:14
R2-1818858	MO configuration with SSB SCS for a given SSB	Intel	agreed	2018-11-21 15:29:23	2018-11-21 18:02:14
R2-1818859	Correction to configuration of measurement object	Hua	agreed	2018-11-21 15:29:23	2018-11-21 18:02:14
R2-1818860	CRs on clarification of field descriptions for NR	Intel	revised	2018-11-21 15:29:24	2018-11-21 18:02:14
R2-1818861	CRs on clarification of field descriptions for NR	Intel	revised	2018-11-21 15:29:25	2018-11-21 18:02:14
R2-1818862	[DRAFT] LS on IAB security	Erics	revised	2018-11-21 15:58:01	2018-11-21 18:02:14
R2-1818863	Missing need code for refFreqCSI-RS	Erics	agreed	2018-11-21 15:29:27	2018-11-21 18:02:14
R2-1818864	CR to 38.331 on associatedSSB	Hua	agreed	2018-11-21 15:29:28	2018-11-21 18:02:14
R2-1818865	Redirection related UE capabilities for mobility and LTE-5GC	Huawei,	not treated	2018-11-21 15:29:29	2018-11-21 18:02:14
R2-1818866	Correction for reporting of NR serving cell measurements when rsType is missing	Huawei,	revised	2018-11-21 15:29:29	2018-11-21 18:02:14
R2-1818867	EDT fallback indicated in DCI	Ericsson	not pursued	2018-11-21 15:29:30	2018-11-21 18:02:14
R2-1818868	Clarification of measurement object for beam reporting for NR cells	Huawei,	agreed	2018-11-21 15:29:32	2018-11-22 09:43:52
R2-1818869	Measurement related actions upon re-establishment	Huawei,	agreed	2018-11-21 15:29:33	2018-11-21 18:02:14
R2-1818870	Stage 2 CR on Measurement gap configuration	Intel	agreed	2018-11-21 15:29:34	2018-11-21 18:02:14
R2-1818871	Stage 2 CR on Measurement gap configuration	Intel	agreed	2018-11-21 15:29:35	2018-11-21 18:02:14
R2-1818872	Stage 2 CR on Measurement gap configuration	Intel	agreed	2018-11-21 15:29:36	2018-11-21 18:02:14
R2-1818873	Correction of MeasResultEUTRA	Erics	agreed	2018-11-21 15:29:37	2018-11-21 18:02:14
R2-1818874	CR on CGI reporting	Hua	agreed	2018-11-21 15:29:38	2018-11-21 18:02:14
R2-1818875	Correction to offsetToPointA	Hua	agreed	2018-11-21 15:29:39	2018-11-21 18:02:14
R2-1818876	Correction to description of parameter nAndPagingFrameOffset	Samsung	revised	2018-11-21 15:29:40	2018-11-21 18:02:14
R2-1818877	CR on PCCH-Config	vivo	agreed	2018-11-21 15:29:41	2018-11-21 18:02:14
R2-1818878	Minor clarifications for paging	Erics	agreed	2018-11-21 15:29:42	2018-11-21 18:02:14
R2-1818879	Clarification of primary and secondary RLC entity	Hua	agreed	2018-11-21 15:29:44	2018-11-21 18:02:14
R2-1818880	Clarification of UE behaviour when frequencyBandList is absent in SIB4	MediaTek	agreed	2018-11-21 15:29:45	2018-11-21 18:02:14
R2-1818881	Introduction of MICO mode	Erics	agreed	2018-11-21 15:29:46	2018-11-21 18:02:14
R2-1818882	nn	HuN	reserved	2018-11-21 15:29:47	
R2-1818883	Corrections on storing and discarding UE AS context	OPP	agreed	2018-11-21 15:29:47	2018-11-21 18:02:14
R2-1818884	nn	HuN	reserved	2018-11-21 15:29:48	
R2-1818885	CR to 36.331 on corrections related to inter-RAT CGI reporting towards NR	Ericsson	revised	2018-11-21 15:29:48	2018-11-23 14:18:52
R2-1818886	Clarification on physical layer parameters of UE	Hua	agreed	2018-11-21 15:29:49	2018-11-21 18:02:14
R2-1818887	Additional UE capabilities for NR standalone	Qualcomm	agreed	2018-11-21 15:29:50	2018-11-21 18:02:14
R2-1818888	Update of L2 capability parameters	Erics	agreed	2018-11-21 15:29:51	2018-11-21 18:02:14
R2-1818889	PDCP-secured F1* for IP termination at access-IAB-node	Qualcomm	not treated	2018-11-21 15:29:52	2018-11-21 18:02:14
R2-1818890	Update of L1/RF capabilities	NTT	revised	2018-11-21 15:29:52	2018-11-21 18:02:14
R2-1818891	Update of UE capabilities	Intel	revised	2018-11-21 15:29:53	2018-11-21 18:02:14
R2-1818892	Update of L2 capability parameters	Erics	agreed	2018-11-21 15:29:54	2018-11-21 18:02:14
R2-1818893	CR on introducing SRS carrier switching capability	Hua	revised	2018-11-21 15:29:55	2018-11-21 18:02:14
R2-1818894	CR on introducing SRS carrier switching capability	Hua	revised	2018-11-21 15:29:56	2018-11-21 18:02:14
R2-1818895	UE capability handling for FDD/TDD and FR1/FR2	Sam	agreed	2018-11-21 15:29:57	2018-11-21 18:02:14
R2-1818896	Clarification for setting of maxLayersMIMO in LTE during EN-DC operation	Nokia,	revised	2018-11-21 15:29:57	2018-11-21 18:02:14
R2-1818897	UE capability on PA architecture	Appl	revised	2018-11-21 15:29:58	2018-11-21 18:02:14
R2-1818898	CR on signaling contiguous and non-contiguous EN-DC capability	Intel Corp	agreed	2018-11-21 15:29:59	2018-11-21 18:02:14
R2-1818899	CR on signaling contiguous and non-contiguous EN-DC capability	Intel Corp	agreed	2018-11-21 15:30:00	2018-11-21 18:02:14
R2-1818900	CR on SRS anttena switch	Hua	revised	2018-11-21 15:30:02	2018-11-21 20:53:23
R2-1818901	LS on RRC processing delay for BWP switching	RAN	approved	2018-11-21 15:30:03	2018-11-21 20:53:44

R2-1818902	CR on supporting sgnalling only connection	Hua	revised	2018-11-21 15:30:03	2018-11-21 20:53:44
R2-1818903	Correction on default configuration	Sam	agreed	2018-11-21 15:30:04	2018-11-21 20:53:44
R2-1818904	CR to 38.331 on HO support in Setup Procedure	Erics	agreed	2018-11-21 15:30:05	2018-11-21 20:53:44
R2-1818905	CORESET#0	Rapp	revised	2018-11-21 15:30:06	2018-11-21 20:53:44
R2-1818906	Correction on DC subcarrier usage in SetupComplete message	Intel Corp	agreed	2018-11-21 15:30:07	2018-11-21 20:53:44
R2-1818907	Correction on indication for user plane resource release	LG Electronics, MediaTek	revised	2018-11-21 15:30:09	2018-11-21 20:53:44
R2-1818908	Correction on SDAP reconfiguration handling	Qualcom	agreed	2018-11-21 15:30:10	2018-11-21 20:53:44
R2-1818909	Missing procedure text in RRC Reconfiguration	Ericsson,	agreed	2018-11-21 15:30:12	2018-11-21 20:53:44
R2-1818910	[DRAFT] Reply LS on network synchronization for handover purposes	Samsung	revised	2018-11-21 15:30:13	2018-11-21 20:53:44
R2-1818911	Clarification on MIB Acquisition	Sam	agreed	2018-11-21 15:30:13	2018-11-21 20:55:06
R2-1818912	Correction to reconfiguration with sync	Goog	agreed	2018-11-21 15:30:17	2018-11-21 20:55:06
R2-1818913	LS on SMTC availability issue during cell search	RAN	approved	2018-11-21 15:30:18	2018-11-21 20:55:06
R2-1818914	CR to the field descriptions of System Information	ZTE Corp	agreed	2018-11-21 15:30:18	2018-11-21 20:55:06
R2-1818915	Handling of missing fields in SIB1	Medi	agreed	2018-11-21 15:30:19	2018-11-21 20:55:06
R2-1818916	PDCCH Monitoring Occasions in SI Window	Samsung	agreed	2018-11-21 15:30:20	2018-11-21 20:55:06
R2-1818917	CR on UE behaviour after SI acquisition failure	vivo,	agreed	2018-11-21 15:30:21	2018-11-21 20:55:06
R2-1818918	Handling Cell Reselection during SI Request	Samsung Elect	agreed	2018-11-21 15:30:22	2018-11-21 20:55:06
R2-1818919	Correction on SI message acquisition timing	Hua	agreed	2018-11-21 15:30:23	2018-11-21 20:55:06
R2-1818920	SIBs that trigger SI request procedure	Nokia,	revised	2018-11-21 15:30:24	2018-11-21 20:55:06
R2-1818921	CR on MeasurementTimingConfiguration	Hua	agreed	2018-11-21 15:30:25	2018-11-22 09:43:52
R2-1818922	Clarification to TX Carrier (re)-Selection for V2X Sidelink Communication	Ericsson	revised	2018-11-21 15:30:26	2018-11-21 20:55:06
R2-1818923	Correction on the terminology scg-ChangeFailure	Sam	agreed	2018-11-21 15:30:27	2018-11-21 20:55:06
R2-1818924	Correction on the terminology scg-ChangeFailure	Sam	agreed	2018-11-21 15:30:28	2018-11-21 20:55:06
R2-1818925	Reply LS on PHR and SUL (R1-1813951; contact:	RAN	noted	2018-11-21 15:30:32	2018-11-21 20:55:06
R2-1818926	Reply to further reply LS on ssb-PositionsInBurst mismatch in SIB1 and ServingcellConfigCommon (R1-1814066; contact: Ericsson)	RAN 1	noted	2018-11-21 15:30:32	2018-11-21 20:55:06
R2-1818927	LS on CORESET 0 (R1-1814068; contact: NTT	RAN	noted	2018-11-21 15:30:32	2018-11-21 20:55:06
R2-1818928	Correction on sorting for reporting of NR cell	Hua	agreed	2018-11-21 15:30:32	2018-11-22 14:26:02
R2-1818929	Frequency band indication in MeasObjectNR	Medi	agreed	2018-11-21 15:30:33	2018-11-21 20:55:06
R2-1818930	Correction to description of parameter CarrierFreq	Sam	revised	2018-11-21 15:30:34	2018-11-21 20:55:06
R2-1818931	Reply on LS on IAB security (S3-183711; contact:	SA3	noted	2018-11-21 15:30:35	2018-11-21 20:55:06
R2-1818932	CR to 38331 on release after completion of inter-RAT	Hua	agreed	2018-11-21 15:30:35	2018-11-21 20:55:06
R2-1818933	CR to 36331 on release after completion of inter-RAT	Hua	agreed	2018-11-21 15:30:40	2018-11-21 20:55:06
R2-1818934	Full configuration for inter-RAT handover	Medi	revised	2018-11-21 15:30:44	2018-11-21 20:55:06
R2-1818935	Corrections for handover preparation in 36.331	Huawei,	revised	2018-11-21 15:30:45	2018-11-21 20:55:06
R2-1818936	Alternative signalling option for SupportedBandListNR	Nokia,	revised	2018-11-21 15:30:46	2018-11-21 20:55:06
R2-1818937	Alternative signalling option for SupportedBandListNR	Nokia,	revised	2018-11-21 15:30:47	
R2-1818938	Clarification on the candidateCellInfoListNR in RRM-	Hua	revised	2018-11-21 15:30:48	2018-11-22 14:26:02
R2-1818939	SCell release at RRC Reestablishment	Erics	agreed	2018-11-21 15:30:52	2018-11-21 20:55:06
R2-1818940	Correction on the size of PUCCH resource ID	Hua	agreed	2018-11-21 15:30:53	2018-11-22 13:59:30
R2-1818941	CR on PUCCH-ConfigCommon	vivo	agreed	2018-11-21 15:30:54	2018-11-21 20:55:06
R2-1818942	CR to 38.331 on rbg-Size in PDSCH-Config, PUSCH-Config and ConfiguredGrantConfig	Qualcom	agreed	2018-11-21 15:30:55	2018-11-21 20:55:06
R2-1818943	Per serving cell MIMO layer configuration	Medi	revised	2018-11-21 15:30:57	2018-11-21 20:55:06
R2-1818944	Correction for rate matching	Hua	not_	2018-11-21 15:30:58	2018-11-21 20:55:06
R2-1818945	CR on pdsch-TimeDomainAllocationList and pusch-TimeDomainAllocationList	Huawei,	agreed	2018-11-21 15:30:59	2018-11-21 20:55:06

R2-1818946	Clarification for the implementation of UE feature list item 6-1 (BWP op1)	Intel Corp	agreed	2018-11-21 15:31:00	2018-11-21 20:55:06
R2-1818947	Update of L1/RF capabilities	NTT DOCOM	reserved	2018-11-21 15:31:01	
R2-1818948	Update of L1/RF capabilities	NTT DOCOM	withdrawn	2018-11-21 15:31:01	
R2-1818949	Report from Break-Out Session	Session	approved	2018-11-21 15:31:01	2018-11-21 20:55:06
R2-1818950	Clarification for additional SRS symbols	Qualcom	withdrawn	2018-11-21 15:31:02	2018-11-21 20:55:06
R2-1818951	Number of PDCCH/EPDCCH received parallel for TDD	Nokia,	postponed	2018-11-21 15:31:03	2018-11-21 20:57:09
R2-1818952	Number of PDCCH/EPDCCH/SPDCCH received parallel for TDD	Nokia,	postponed	2018-11-21 15:31:06	2018-11-21 20:57:09
R2-1818953	Clarification for additional SRS symbols	Qualcom	withdrawn	2018-11-21 15:31:09	2018-11-21 20:57:09
R2-1818954	CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation	ZTE Corp	revised	2018-11-21 15:31:11	2018-11-21 20:57:09
R2-1818955	CR to TS 36.321 to correct the ambiguity on bit rate recommendation for index 0	CMCC	agreed	2018-11-21 15:31:12	2018-11-21 20:57:09
R2-1818956	Signalling of CRS IM and CCH-IM for UE cat 1bis and	Intel	agreed	2018-11-21 15:31:13	2018-11-21 20:57:09
R2-1818957	Signalling of CRS IM and CCH-IM for UE cat 1bis and	Intel	revised	2018-11-21 15:59:25	2018-11-21 20:57:09
R2-1818958	Support for Logging of 'Any cell selection' state	LG Electronics, SK	revised	2018-11-21 15:31:14	2018-11-21 20:57:09
R2-1818959	SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information	Ericsson,	revised	2018-11-21 15:31:15	2018-11-21 20:57:09
R2-1818960	LS for inclusion of Receive Only Mode MBMS service parameters in USD	RAN2	approved	2018-11-21 15:31:16	2018-11-21 20:57:09
R2-1818961	CR on supporting signalling only connection	Huawei, HiSil	agreed	2018-11-21 15:31:16	2018-11-30 03:12:47
R2-1818962	Signalling introduction of SRS switching capability	Huawei, HiSilicon	agreed	2018-11-21 15:31:16	2018-11-28 12:15:20
R2-1818963	Introduction of SRS switching capability	Huawei, HiSilicon	agreed	2018-11-21 15:31:16	2018-11-28 12:15:20
R2-1818964	Section on UE capability retrieval in MR-DC	Nokia, Nokia	revised	2018-11-21 15:31:16	2018-11-28 19:05:32
R2-1818965	Clarification on supportedMIMO-CapabilityDL-r15	Nokia,	agreed	2018-11-21 15:31:16	2018-11-21 20:57:09
R2-1818966	Integrity Check failure at RRC Re-establishment	Ericsson	revised	2018-11-21 15:31:19	2018-11-21 20:57:09
R2-1818967	TS36.331 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corp	agreed	2018-11-21 15:31:20	2018-11-21 20:57:09
R2-1818968	TS36.306 CR on UE capabilities for mobility and E-UTRA/5GC	Intel Corp	agreed	2018-11-21 15:31:22	2018-11-21 20:57:09
R2-1818969	[Report of Offline#706]	Ericsson	withdrawn	2018-11-21 15:31:23	
R2-1818970	CR to 38.331 on UE AS Context - Alternative 2a - Include SuspendConfig	Ericsson	revised	2018-11-21 15:31:23	2018-11-21 20:57:09
R2-1818971	CR for pendingRnaUpdate set	Spreadtru	agreed	2018-11-21 15:31:24	2018-11-21 20:57:09
R2-1818972	RIL I556, I557, I558 on RB handling when resuming	Intel	revised	2018-11-21 15:31:25	2018-11-21 20:57:09
R2-1818973	Reply LS on MIMO layer configuration (R1-1813952; contact: MediaTek)	RAN1	noted	2018-11-21 15:31:26	2018-11-21 20:57:09
R2-1818974	Clarifications on receiving RRCReject without wait	vivo	agreed	2018-11-21 15:31:26	2018-11-21 20:57:09
R2-1818975	CR on handling of timer T380	ITRI	revised	2018-11-21 15:31:27	2018-11-21 20:57:09
R2-1818976	UE capability on PA architecture	Appl	revised	2018-11-21 15:31:28	2018-11-21 20:57:09

R2-1818977	CR on 38.331 for RRCResumeRequest and RRCResumeRequest1 and protection of RRCResumeRequest1	Huawei, HiSil	agreed	2018-11-21 15:31:29	2018-11-21 20:57:09
R2-1818978	Clarification of cell reselection during resume	Erics	agreed	2018-11-21 15:31:30	2018-11-21 20:57:09
R2-1818979	CR on wait timer in RRC release	Hua	agreed	2018-11-21 15:31:31	2018-11-21 20:57:09
R2-1818980	Corrections to eCA configuration	Nokia,	agreed	2018-11-21 15:31:32	2018-11-21 20:57:09
R2-1818981	Corrections to eCA configuration	Nokia,	agreed	2018-11-21 15:31:33	2018-11-21 20:57:09
R2-1818982	Corrections to eCA configuration	Nokia,	revised	2018-11-21 15:31:34	2018-11-21 20:57:09
R2-1818983	Clarification to UE capabilities for CA	Nokia,	revised	2018-11-21 15:31:35	2018-11-21 20:57:09
R2-1818984	CR to 36.331 on alignment of use of fullI-RNTI and I-RNTI in paging and InactiveConfig (Alt.2)	Ericsson	agreed	2018-11-21 15:31:36	2018-11-21 20:57:09
R2-1818985	CR to 38.331 on aligning i-RNTI terminology in paging and SuspendConfig (Alt 2)	Ericsson	revised	2018-11-21 15:31:40	2018-11-21 20:57:09
R2-1818986	Reply LS on redundant transmission for URLLC	Hua	revised	2018-11-21 15:31:41	2018-11-21 20:57:09
R2-1818987	Alternative signalling option for SupportedBandListNR	Nokia,	revised	2018-11-21 15:31:41	2018-11-21 20:57:09
R2-1818988	Clarification for the UE behaviour in camped normally and camped on any cell states	Samsung, Intel Corp	agreed	2018-11-21 15:31:42	2018-11-21 20:57:09
R2-1818989	Correction on DL SPS configuration	OPP	revised	2018-11-21 15:31:44	2018-11-21 20:57:09
R2-1818990	LS on power offset indication for CSI-RS (R1-1813950; contact: Huawei)	RAN1	noted	2018-11-21 15:31:48	2018-11-21 20:57:09
R2-1818991	LS on multiple active configured grant configurations (R1-1814116; contact: NTT DOCOMO)	RAN1	noted	2018-11-21 15:31:48	2018-11-21 20:57:09
R2-1818992	Reply-LS on Location Service exposure to NG-RAN (S1-183340; contact: Ericsson)	SA1	not treated	2018-11-21 15:31:48	2018-11-21 20:57:09
R2-1818993	Clarification to TS 36.306 on supportedMIMO-CapabilityDL-r15	Nokia,	revised	2018-11-21 15:31:48	2018-11-21 20:57:09
R2-1818994	Correction to Skipping PDCCH monitoring occasions overlapping with UL symbols	Samsung	postponed	2018-11-21 15:31:49	2018-11-21 20:57:09
R2-1818995	Correction to description of parameter Ns nAndPagingFrameOffset	Samsung	agreed	2018-11-21 15:31:50	2018-11-21 20:57:09
R2-1818996	Correction to configuration of firstPDCCH-MonitoringOccasionOfPO	Samsung	revised	2018-11-21 15:31:51	2018-11-21 20:57:09
R2-1818997	[DRAFT] Reply LS on Location Service exposure to NG-	Erics	revised	2018-11-21 15:31:52	2018-11-21 20:57:09
R2-1818998	Correction to UE behavior for barred cell	Sam	agreed	2018-11-21 15:31:52	2018-11-21 20:57:09
R2-1818999	Reply LS on network synchronization for handover	RAN	approved	2018-11-21 15:31:53	2018-11-21 20:57:09
R2-1819000	Determination of Access Identities for RRC-triggered Access Attempts	Ericsson	agreed	2018-11-21 15:31:53	2018-11-21 20:59:12
R2-1819001	Draft LS to CT1 on Determination of Access Identities for AS-triggered Events	Ericsson	revised	2018-11-21 15:31:54	2018-11-21 20:59:12
R2-1819002	Stop of T390 and related UE actions	Erics	agreed	2018-11-21 15:31:54	2018-11-21 20:59:12
R2-1819003	Barring alleviation for emergency service	Intel	agreed	2018-11-21 15:31:55	2018-11-22 16:50:59
R2-1819004	On stopping T320 and UE related actions	Xiaomi	revised	2018-11-21 15:31:56	2018-11-21 20:59:12
R2-1819005	CR to 38.331 on stopping of timer T390 upon reception of RRCRelease	Ericsson	agreed	2018-11-21 15:31:57	2018-11-21 20:59:12
R2-1819006	Correction on the behaviors with cell reselection while T302 is running	CATT	agreed	2018-11-21 15:31:58	2018-11-21 20:59:12
R2-1819007	Reply LS on NR MIMO layer configuration (R4-1816463; contact: Intel)	RAN4	noted	2018-11-21 15:31:59	2018-11-21 20:59:12
R2-1819008	Access barring check after handover	Erics	agreed	2018-11-21 15:31:59	2018-11-21 20:59:12
R2-1819009	Access barring check after handover for eLTE	Ericsson	agreed	2018-11-21 15:32:00	2018-11-21 20:59:12
R2-1819010	CR on signalling introduction of UE overheating support in NR SA scenario	Huawei, HiSil	revised	2018-11-21 15:32:01	2018-11-28 12:15:20
R2-1819011	CR on introduction of UE overheating support in NR SA scenario	Huawei, HiSil	revised	2018-11-21 15:32:02	2018-11-28 12:15:20

R2-1819012	LS to RAN2/3 on UP Integrity Protection for Small Data in Early Data Transfer (S3-183652; contact: Huawei)	SA3	noted	2018-11-21 15:32:03	2018-11-21 20:59:12
R2-1819013	CR on the Clarification for the support of the delay budget report in NR	Samsung	revised	2018-11-21 15:32:03	2018-11-21 20:59:12
R2-1819014	LS on RAT selection for SL	ZTE	revised	2018-11-21 15:32:04	2018-11-21 20:59:12
R2-1819015	[DRAFT] LS on RAN2 agreed TPs	Hua	revised	2018-11-21 15:32:04	2018-11-21 20:59:12
R2-1819016	TP to TR 38.885 on e2e delay analysis for Uu-based V2X communication	Intel Corp	agreed	2018-11-21 15:32:04	2018-11-21 20:59:12
R2-1819017	nn	Kyeo	reserved	2018-11-21 15:32:05	
R2-1819018	nn	Kyeo	reserved	2018-11-21 15:32:05	
R2-1819019	Clean up of SRB1 terminology	Erics	agreed	2018-11-21 15:32:05	2018-11-21 20:59:12
R2-1819020	SRB3 integrity protection failure handling	Erics	agreed	2018-11-21 15:32:06	2018-11-21 20:59:12
R2-1819021	Correction concerning IDC reporting	Samsung	revised	2018-11-21 15:32:07	2018-11-21 20:59:12
R2-1819022	Clarify for per CC UL/DL modulation order capabilities	Spreadtrum Com	agreed	2018-11-21 15:32:08	2018-11-30 03:34:39
R2-1819023	CR to 38.306 for PDCP CA duplication for SRB	ZTE Corp	revised	2018-11-21 15:32:09	2018-11-21 20:59:12
R2-1819024	Clarification of multipleConfiguredGrants	Medi	revised	2018-11-21 15:32:10	2018-11-21 20:59:12
R2-1819025	Signalling of CRS IM and CCH-IM for UE cat 1bis and	Intel	revised	2018-11-21 15:32:11	2018-11-21 20:59:12
R2-1819026	Correction of PLMN selection in RRC_INACTIVE	LG	agreed	2018-11-21 15:32:13	2018-11-21 20:59:12
R2-1819027	[DRAFT] UE capability related to integrity protection of	Qual	revised	2018-11-21 15:32:14	2018-11-21 20:59:12
R2-1819028	CR for the optional configuration of subbandSize	ZTE Corp	agreed	2018-11-21 15:32:14	2018-11-21 20:59:12
R2-1819029	CR for ServingCellConfigCommon in 38.331	ZTE Corp	agreed	2018-11-21 15:32:15	2018-11-21 20:59:12
R2-1819030	Addition of selected BC in AS-Context for EN-DC	NTT DOCOMO,	agreed	2018-11-21 15:32:16	2018-11-21 20:59:12
R2-1819031	Inter-band EN-DC Configured Output Power	Erics	revised	2018-11-21 15:32:17	2018-11-21 20:59:12
R2-1819032	Introduce RRC buffer size in NR	Medi	revised	2018-11-21 15:32:18	2018-11-21 20:59:12
R2-1819033	Correction on the SSB based RACH configuration	Hua	agreed	2018-11-21 15:32:19	2018-11-21 20:59:12
R2-1819034	Corrections on number of RadioLinkMonitoringRS condifuration	OPPO	agreed	2018-11-21 15:32:20	2018-11-21 20:59:12
R2-1819035	CORESET#0 configuration when SIB1 is not broadcast	ZTE Corporati	agreed	2018-11-21 15:32:22	2018-11-21 20:59:12
R2-1819036	Agreements for MR-DC	ZTE Corporati	agreed	2018-11-21 15:32:23	2018-11-27 16:47:37
R2-1819037	Clarification for the UE behaviour in camped normally and camped on any cell states	Qualcomm Incorporat	agreed	2018-11-21 15:32:25	2018-11-21 20:59:12
R2-1819038	Correction to SR triggering	Samsung	revised	2018-11-21 15:32:27	2018-11-21 20:59:12
R2-1819039	Bearer type change for MR-DC with 5GC	ZTE Corporati	merged	2018-11-21 15:32:28	
R2-1819040	Support for Logging of 'Any cell selection' state	LG Electronics, SK	withdrawn	2018-11-21 15:32:29	2018-11-21 20:59:12
R2-1819041	Correction on DL SPS configuration	OPPO	agreed	2018-11-21 15:32:31	2018-11-21 20:59:12
R2-1819042	Draft LS on BCS definition for MR-DC options	Huawei,	revised	2018-11-21 15:32:32	2018-11-21 20:59:12
R2-1819043	Discussion on RRC Processing Time	Medi	noted	2018-11-21 15:32:32	2018-11-21 20:59:12
R2-1819044	NR RRC Processing Time	Medi	revised	2018-11-21 15:32:32	2018-11-21 20:59:12
R2-1819045	CR to 38.331 on the ambiguity of targetCellIdentity in Resume/Reestablishment MAC-I calculation	ZTE Corporati	agreed	2018-11-21 15:32:33	2018-11-21 20:59:12

R2-1819046	[Offline 023] Downlink indication in SIB that the network transmits LTE CRS	ZTE Corp	noted	2018-11-21 15:32:35	2018-11-21 20:59:12
R2-1819047	[Offline 059] logical channel IDs & SRB duplication	ZTE	noted	2018-11-21 15:32:35	2018-11-21 20:59:12
R2-1819048	[Offline 906] Correction on BWP ID in RRC	Spreadtru	noted	2018-11-21 15:32:35	2018-11-21 20:59:12
R2-1819049	The scope of possible email discussion for Rel-16 NR positioning	Intel Corp	not treated	2018-11-21 15:32:35	2018-11-21 20:59:12
R2-1819050	[offline discussion 019] De-activation of security for	Intel	not treated	2018-11-21 15:32:35	2018-11-21 20:59:12
R2-1819051	[offline discussion 078] Re-establishment handling	Intel	noted	2018-11-21 15:32:36	2018-11-21 21:15:25
R2-1819052	[DRAFT] LS on MIMO codebook and CSI-RS/SRS association capabilities	NTT DOC	not treated	2018-11-21 15:32:36	2018-11-21 21:15:25
R2-1819053	Enabling to configure TCI-state for CORESET#0 by	NTT	agreed	2018-11-21 15:32:36	2018-11-21 21:15:25
R2-1819054	[DRAFT] Reply LS on TCI-state for CORESET#0	NTT	revised	2018-11-21 15:32:38	2018-11-21 21:15:25
R2-1819055	Inter-frequency handover capability	Qualcom	agreed	2018-11-21 15:32:39	2018-11-21 21:15:25
R2-1819056	Inter-frequency handover capability	Qualcom	agreed	2018-11-21 15:32:40	2018-11-21 21:15:25
R2-1819057	Normative Annex of CRs Containing Early Implementable Features and Corrections	NTT DOC	agreed	2018-11-21 15:32:41	2018-11-21 21:15:25
R2-1819058	CR to 38.331 on including serving cell measurements	Hua	agreed	2018-11-21 15:32:42	2018-11-21 21:15:25
R2-1819059	CR on MN/SN coordination for report CGI procedure	Nokia, Noki	revised	2018-11-21 15:32:43	2018-11-21 21:15:25
R2-1819060	Addition of PCI in MeasTiming	Nokia,	revised	2018-11-21 15:32:45	2018-11-21 21:15:25
R2-1819061	Corrections for security configurations during setup of	Erics	agreed	2018-11-21 15:32:47	2018-11-21 21:15:25
R2-1819062	CR to 38.331 on clarification of IRAT Cell Selection in RRC_INACTIVE	Ericsson	revised	2018-11-21 15:32:48	2018-11-21 21:15:25
R2-1819063	Clarifications to SIBs requiring request procedure	Nokia,	revised	2018-11-21 15:32:50	2018-11-21 21:15:25
R2-1819064	Alternative signalling option for SupportedBandListNR	Nokia,	revised	2018-11-21 15:32:51	2018-11-21 21:15:25
R2-1819065	Reply LS on supporting low latency and low jitter during handover procedure	RAN 2	approved	2018-11-21 15:32:52	2018-11-21 21:15:25
R2-1819066	Corrections on RRC transfer procedure in EN-DC	Ericsson,	agreed	2018-11-21 15:32:53	2018-11-21 21:15:25
R2-1819067	RIL I556, I557, I558 on RB handling when resuming	Intel	agreed	2018-11-21 15:32:54	2018-11-21 21:15:25
R2-1819068	Miscellaneous minor corrections	Erics	agreed	2018-11-21 15:32:55	2018-11-21 21:15:25
R2-1819069	CR to 38.331 on Integrity Check failure at RRC Reestablishment	Ericsson	revised	2018-11-21 15:32:56	2018-11-21 21:15:25
R2-1819070	LS on Determination of Access Identities for AS-triggered Events	Ericsson	revised	2018-11-21 15:32:57	2018-11-21 21:15:25
R2-1819071	CRs on clarification of field descriptions for NR	Intel	revised	2018-11-21 15:32:57	2018-11-21 21:15:25
R2-1819072	CRs on clarification of field descriptions for NR	Intel	revised	2018-11-21 15:32:58	2018-11-21 21:15:25
R2-1819073	Clarification on supportedMIMO-CapabilityDL-r15	Nokia,	revised	2018-11-21 15:33:00	2018-11-21 21:15:25
R2-1819074	Alternative signalling option for SupportedBandListNR	Nokia,	revised	2018-11-21 15:33:02	2018-11-21 21:15:25
R2-1819075	LS on new UE capability for intra-band EN-DC and intra-band NR UL CA (R4-1816623; contact: CHTTL)	RAN 4	noted	2018-11-21 15:33:04	2018-11-21 21:15:25
R2-1819076	Corrections on BWP ID	Spreadtru	revised	2018-11-21 15:33:04	2018-11-21 21:15:25
R2-1819077	Introduction of SRS switching capability	Hua	agreed	2018-11-21 15:33:06	2018-11-21 21:15:25
R2-1819078	CR to 38.306 for PDCP CA duplication for SRB	ZTE Corp	agreed	2018-11-21 15:33:09	2018-11-21 17:02:31
R2-1819079	Clarification of multipleConfiguredGrants	Medi	agreed	2018-11-21 15:33:11	2018-11-21 21:15:25
R2-1819080	LS on DRB integrity protection	RAN	approved	2018-11-21 15:33:12	2018-11-21 21:15:25
R2-1819081	LS on RAT selection for SL	ZTE	revised	2018-11-21 15:33:13	2018-11-21 21:15:25
R2-1819082	LS on RAT selection for SL	RAN	approved	2018-11-21 15:33:13	2018-11-21 21:15:25
R2-1819083	LS on RAN2 agreed TPs	RAN	approved	2018-11-21 15:33:13	2018-11-21 21:15:25
R2-1819084	Reply LS on TCI-state for CORESET#0	RAN	approved	2018-11-21 15:33:13	2018-11-21 21:15:25
R2-1819085	Correction to configuration of firstPDCCH-MonitoringOccasionOfPO	Samsung	agreed	2018-11-21 15:33:13	2018-11-21 21:15:25
R2-1819086	Per serving cell MIMO layer configuration	Medi	agreed	2018-11-21 15:33:14	2018-11-21 21:15:25
R2-1819087	Corrections on BWP ID	Spreadtru	agreed	2018-11-21 15:33:15	2018-11-21 21:15:25

R2-1819088	[DRAFT] LS on BWP ID interpretation for DCI code	Intel	revised	2018-11-21 15:33:17	2018-11-21 21:15:25
R2-1819089	Introduce RRC buffer size in NR	Medi	revised	2018-11-21 15:33:17	2018-11-21 21:15:25
R2-1819090	UE capability on PA architecture	Appl e	agreed	2018-11-21 15:33:19	2018-11-21 21:15:25
R2-1819091	UE capability on PA architecture	Appl	revised	2018-11-21 15:33:21	2018-11-21 21:15:25
R2-1819092	Various carrier frequency definiton corrections	Intel	agreed	2018-11-21 15:33:22	2018-11-21 21:15:25
R2-1819093	Various NR carrier frequency definition corrections	Intel	revised	2018-11-21 15:33:24	2018-11-21 21:15:25
R2-1819094	Update of UE capabilities	Intel	revised	2018-11-21 15:33:26	2018-11-21 21:15:25
R2-1819095	CR to 38.331 on IRAT Cell reselection in	Erics	agreed	2018-11-21 15:33:27	2018-11-21 21:15:25
R2-1819096	CR on MN/SN coordination for report CGI procedure	Noki a, Noki a	agreed	2018-11-21 15:33:28	2018-11-27 11:33:56
R2-1819097	Corrections on power headroom configuration	Hua	revised	2018-11-21 15:33:29	2018-11-21 21:15:25
R2-1819098	Update of UE capabilities	Intel	revised	2018-11-21 15:33:30	2018-11-22 00:53:43
R2-1819099	Reply LS on Location Service exposure to NG-RAN	RAN	approved	2018-11-21 15:33:31	2018-11-21 21:15:25
R2-1819100	UE capability on PA architecture	Appl e	agreed	2018-11-21 15:33:31	2018-11-21 21:18:59
R2-1819101	LS on PHR procedure in dual-connectivity	RAN	approved	2018-11-21 15:33:32	2018-11-21 21:18:59
R2-1819102	LS on BWP ID interpretation for DCI code point	RAN	approved	2018-11-21 15:33:32	2018-11-21 21:18:59
R2-1819103	CR to 38.331 on UE AS Context definition - Include suspendConfig	Erics son	revised	2018-11-21 15:33:33	2018-11-21 21:18:59
R2-1819104	NR RRC Processing Time	Medi	revised	2018-11-21 15:33:34	2018-11-21 21:18:59
R2-1819105	CR on SRS antenna switching	Hua	agreed	2018-11-21 15:33:35	2018-11-21 21:18:59
R2-1819106	LS on BCS definition for MR-DC options	RAN 2	approved	2018-11-21 15:33:36	2018-11-21 21:18:59
R2-1819107	LS on Determination of Access Identities for AS-triggered Events	RAN 2	approved	2018-11-21 15:33:36	2018-11-21 21:18:59
R2-1819108	LS on RRC Parameter for Capability 2 Processing Time (R1-1814349; contact: Qualcomm)	RAN 1	not treated	2018-11-21 15:33:36	2018-11-21 21:18:59
R2-1819109	LS on RAN1 NR UE features (R1-1814362; contact: NTT DOCOMO and AT&T)	RAN 1	not treated	2018-11-21 15:33:36	2018-11-21 21:18:59
R2-1819110	Reply LS to SA2 on QoS monitoring	RAN	approved	2018-11-21 15:33:36	2018-11-21 21:18:59
R2-1819111	Correction on ANR related information	R3 (Eric	agreed	2018-11-21 23:44:55	2018-11-22 00:17:34
R2-1819112	36.300 CR on Correction of Physical Layer Resource to Cell Resource	R3 (ZTE	agreed	2018-11-21 23:55:50	2018-11-22 00:17:34
R2-1819113	Inter-system HO	R3 (Sa msu ng, KT Corp ., ZTE,	agreed	2018-11-22 00:04:42	2018-11-22 00:17:34
R2-1819114	Update of UE capabilities	Intel Corp orati	reserved	2018-11-22 00:58:39	
R2-1819115	Mapping capability field names on to L1 UE features	NTT	reserved	2018-11-22 09:59:53	
R2-1819116	TS36.331 CR on [104#23][LTE/5GC] Capture NR agreements	Intel Corp orati on	agreed	2018-11-23 00:17:54	2018-11-28 12:15:20
R2-1819117	TS36.304 CR on [104#23][LTE/5GC] Capture NR agreements	Intel Corp orati on	agreed	2018-11-23 00:20:32	2018-11-28 12:15:20
R2-1819118	CR to 38.331 on stopping T302 and UE related actions	Xiao mi Com muni	agreed	2018-11-23 11:15:37	2018-11-27 00:59:17
R2-1819119	Correction to SR triggering	Sam sung R&D Instit	agreed	2018-11-23 11:27:11	2018-11-28 12:15:20

R2-1819120	Correction for TCI state in ControlResourceSet	Huawei, HiSilicon	agreed	2018-11-26 10:49:56	2018-11-30 17:39:32
R2-1819121	Correction to 38331 for SRS-config	Huawei, HiSil	agreed	2018-11-26 10:52:42	2018-11-26 15:08:17
R2-1819122	Corrections on power headroom configuration exchange	Huawei, HiSilicon	agreed	2018-11-26 10:54:41	2018-11-30 03:12:47
R2-1819123	Baseline CR for TS37.340	R3 (ZTE	revised	2018-11-26 13:30:00	2018-11-26 13:58:00
R2-1819124	Baseline CR for TS 38.300	R3 (Nok	agreed	2018-11-26 13:35:30	2018-11-26 13:58:00
R2-1819125	TR 38.874 v070	Qualcomm	agreed	2018-11-26 14:36:34	2018-11-30 03:20:49
R2-1819126	Baseline CR for TS37.340	R3 (ZTE	agreed	2018-11-27 23:44:39	2018-11-28 22:25:56
R2-1819127	Addition of SRB duplication in SCG	Ericsson	agreed	2018-11-28 00:06:38	2018-11-28 10:07:39
R2-1819128	PDU Session AMBR	Rapporteur	agreed	2018-11-30 00:08:27	2018-11-30 03:12:47
R2-1819129	CR on powerControlOffset	vivo	agreed	2018-11-30 00:09:34	2018-11-30 03:12:47
R2-1819130	Clarification of Qoffsettemp for eLTE in 36.304	LG Elect	agreed	2018-11-30 00:11:21	2018-11-30 03:12:47
R2-1819131	RRC triggered BWP switching while RACH is ongoing	OPPO,	agreed	2018-11-30 00:12:16	2018-11-30 03:12:47
R2-1819132	ssb-PositionsInBurst correction	Nokia, Nokia	agreed	2018-11-30 00:12:53	2018-11-30 03:12:47
R2-1819133	Barring behaviour when SIB1 reception fails	Nokia,	agreed	2018-11-30 00:13:55	2018-11-30 03:12:47
R2-1819134	SIBs required before initiating connection	Nokia, Nokia	agreed	2018-11-30 00:14:38	2018-11-30 03:12:47
R2-1819135	System Information Storing and Validity Clarifications and Corrections	Nokia, Nokia Shanghai Bell, Samsung	agreed	2018-11-30 00:15:28	2018-11-30 03:12:47
R2-1819136	Missing optionality bit in CG-ConfigInfo	Ericsson,	agreed	2018-11-30 00:16:08	2018-11-30 03:12:47
R2-1819137	Various sTTI corrections	Intel Corp	agreed	2018-11-30 00:16:52	2018-11-30 03:12:47
R2-1819138	CR to 38.331 on removing FFS of locationInfo	Qualcom	agreed	2018-11-30 00:17:26	2018-11-30 03:12:47
R2-1819139	CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation	ZTE Corp	revised	2018-11-30 00:18:09	2018-11-30 03:12:47
R2-1819140	Correction on HARQ re-transmission resource selection	OPPO	agreed	2018-11-30 00:18:52	2018-11-30 03:12:47

R2-1819141	Clarification for SLSS_TxDisabled	LG Elect	agreed	2018-11-30 00:19:30	2018-11-30 03:12:47
R2-1819142	Correction to PHR procedure in dual connectivity	Qualcomm Incorporated	withdrawn	2018-11-30 00:31:00	2018-11-30 03:12:47
R2-1819143	Correction to PHR procedures in dual connectivity	Qualcomm Incorporated	agreed	2018-11-30 00:42:49	2018-12-03 00:20:37
R2-1819144	Correction of SN Initiated SN Modification procedure for Measurement Gap	Ericsson, Rapp	agreed	2018-11-30 01:16:45	2018-11-30 03:12:47
R2-1819145	SI message scheduling enhancement to avoid conflicts between legacy and positioning System Information	Ericsson, ESA	agreed	2018-11-30 01:17:28	2018-11-30 03:12:47
R2-1819146	CR to 36.331 on corrections related to inter-RAT CGI reporting towards NR	Ericsson	agreed	2018-11-30 01:19:58	2018-11-30 03:12:47
R2-1819147	Clarification for setting of maxLayersMIMO in LTE during EN-DC operation	Nokia,	agreed	2018-11-30 01:21:13	2018-11-30 03:12:47
R2-1819148	CORESET#0	Rapporteu	agreed	2018-11-30 01:22:08	2018-11-30 03:12:47
R2-1819149	Correction on indication for user plane resource release	LG Electronics, MediaTek	agreed	2018-11-30 01:23:03	2018-11-30 03:12:47
R2-1819150	Correction to description of parameter CarrierFreq	Samsung	agreed	2018-11-30 01:23:59	2018-11-30 03:12:47
R2-1819151	Corrections for handover preparation in 36.331	Huawei,	agreed	2018-11-30 01:24:52	2018-11-30 03:12:47
R2-1819152	CR to 36.331 on the ambiguity of CellIdentity in Resume/Short MAC-I calculation	ZTE Corp	agreed	2018-11-30 01:27:11	2018-11-30 03:12:47
R2-1819153	Signalling of CRS IM and CCH-IM for UE cat 1bis and cat M2	Intel Corp	agreed	2018-11-30 01:28:11	2018-11-30 03:12:47
R2-1819154	Support for Logging of 'Any cell selection' state	LG Electronics, SK	revised	2018-11-30 01:29:06	2018-11-30 03:12:47
R2-1819155	Corrections to eCA configuration	Nokia,	agreed	2018-11-30 01:30:06	2018-11-30 03:12:47
R2-1819156	Clarification to UE capabilities for CA	Nokia,	agreed	2018-11-30 01:31:08	2018-11-30 03:12:47
R2-1819157	CR to 38.331 on aligning i-RNTI terminology in paging and SuspendConfig (Alt 2)	Ericsson	agreed	2018-11-30 01:32:06	2018-11-30 03:12:47
R2-1819158	Alternative signalling option for SupportedBandListNR	Nokia, Nokia	agreed	2018-11-30 01:32:56	2018-11-30 03:12:47
R2-1819159	CR on the Clarification for the support of the delay budget report in NR	Samsung	agreed	2018-11-30 01:33:40	2018-11-30 03:12:47

R2-1819160	SIBs that trigger SI request procedure	Nokia,	withdrawn	2018-11-30 01:34:24	2018-11-30 03:12:47
R2-1819161	Clarification to TS 36.306 on supportedMIMO-CapabilityDL-r15	Nokia, Nokia Shan	revised	2018-11-30 01:35:15	2018-11-30 03:12:47
R2-1819162	Alternative signalling option for SupportedBandListNR	Nokia,	agreed	2018-11-30 01:36:31	2018-11-30 03:12:47
R2-1819163	Introduce RRC buffer size in NR	MediaTek	agreed	2018-11-30 01:38:13	2018-11-30 03:12:47
R2-1819164	Various NR carrier frequency definiton corrections	Intel Corp	agreed	2018-11-30 01:39:05	2018-11-30 03:12:47
R2-1819165	CR to 38.331 on UE AS Context definition - Include suspendConfig	Ericsson	agreed	2018-11-30 01:39:56	2018-11-30 03:12:47
R2-1819166	NR RRC Processing Time	MediaTek	agreed	2018-11-30 01:40:36	2018-11-30 03:12:47
R2-1819167	Correction to commonControlResourceSet	Ericsson	agreed	2018-11-30 01:42:18	2018-11-30 03:12:47
R2-1819168	Correction to TDD configuration in SIB1	Ericsson	agreed	2018-11-30 01:43:22	2018-11-30 03:12:47
R2-1819169	Clarification on handling of default parameters	Ericsson	revised	2018-11-30 01:44:23	2018-11-30 03:12:47
R2-1819170	Correction to aperiodicTriggeringOffset	Ericsson	agreed	2018-11-30 01:46:21	2018-11-30 03:12:47
R2-1819171	Correction for reporting of NR serving cell measurements when rsType is missing	Huawei, HiSil	agreed	2018-11-30 01:47:06	2018-11-30 03:12:47
R2-1819172	Full configuration for inter-RAT handover	MediaTek Inc.	agreed	2018-11-30 01:47:57	2018-11-30 03:12:47
R2-1819173	Clarification on the candidateCellInfoListNR in RRM-Config	Huawei, HiSil	agreed	2018-11-30 01:49:44	2018-11-30 03:12:47
R2-1819174	Correction concerning IDC reporting	Samsung Tele	agreed	2018-11-30 01:50:45	2018-11-30 03:12:47
R2-1819175	Addition of PCI in MeasTiming	Nokia, Nokia	agreed	2018-11-30 01:51:32	2018-11-30 03:12:47
R2-1819176	SIBs that trigger SI request procedure	Nokia, Noki	withdrawn	2018-11-30 01:52:09	2018-11-30 03:12:47
R2-1819177	CR to 38.331 on Integrity Check failure at RRC Reestablishment	Ericsson	agreed	2018-11-30 01:53:08	2018-11-30 03:12:47
R2-1819178	CR on signalling introduction of UE overheating support in NR SA scenario	Huawei, HiSil	revised	2018-11-30 01:56:05	2018-11-30 03:12:47
R2-1819179	CR on signalling introduction of UE overheating support in NR SA scenario	Huawei, HiSil	agreed	2018-11-30 01:58:41	2018-12-04 09:17:40
R2-1819180	CR on introduction of UE overheating support in NR SA scenario	Huawei, HiSil	agreed	2018-11-30 01:59:47	2018-12-04 09:17:40

R2-1819181	Correction to PHR procedures in EN-DC	Qualcomm Incorporated	agreed	2018-11-30 02:05:23	2018-11-30 03:12:47
R2-1819182	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia, Nokia	revised	2018-11-30 02:30:55	2018-12-03 17:09:10
R2-1819183	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia, Nokia	agreed	2018-11-30 02:33:59	2018-12-03 17:09:10
R2-1819184	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia, Nokia	revised	2018-11-30 02:39:57	2018-12-03 17:09:10
R2-1819185	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia, Nokia	revised	2018-11-30 02:44:21	2018-12-03 17:09:10
R2-1819186	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia, Nokia	agreed	2018-11-30 02:45:56	2018-12-03 17:09:10
R2-1819187	Updates to UE capability coordination for MR-DC	Nokia, Nokia	agreed	2018-11-30 02:50:07	2018-11-30 08:32:10
R2-1819188	Supporting MME and AMF overload control	Ericsson	agreed	2018-11-30 03:07:18	2018-11-30 17:39:23
R2-1819189	CR on PSCell (SPCell of SN) change (36.331)	Samsung Electronics	agreed	2018-11-30 03:28:40	2018-11-30 13:38:15
R2-1819190	Inter-band EN-DC Configured Output Power requirements	Ericsson	revised	2018-11-30 10:53:11	2018-11-30 17:39:49
R2-1819191	Clarification on supportedMIMO-CapabilityDL-r15	Nokia, Nokia Shan	agreed	2018-11-30 22:46:16	2018-11-30 22:54:38
R2-1819192	Clarifications to SIBs requiring request procedure	Nokia, Nokia	agreed	2018-12-02 22:25:13	2018-12-02 22:30:05
R2-1819193	Corrections to TS 36.304 for E-UTRA connected to 5GC	Huawei, HiSil	agreed	2018-12-03 11:23:54	2018-12-04 09:17:40
R2-1819194	Correction to UE capability procedures in 38.331	Ericsson	agreed	2018-12-03 22:54:09	2018-12-05 14:54:34

R2-1819195	Correction to UE capability procedures in 36.331	Ericsson	agreed	2018-12-03 22:56:24	2018-12-05 14:54:34
R2-1819196	Corrections on 38.304	OPPO	agreed	2018-12-05 10:03:19	2018-12-05 11:17:13
R2-1819197	TS36.331 CR on [103bis#43][LTE/eLTE] Capture NR agreements	Intel Corp	agreed	2018-12-05 10:04:37	2018-12-05 11:17:13
R2-1819198	CR on handling of timer T380	ITRI	agreed	2018-12-05 10:05:53	2018-12-05 11:17:13
R2-1819199	CR to 36.331 on the ambiguity of CellIdentity in Resume MAC-I calculation	ZTE Corp	agreed	2018-12-05 10:06:56	2018-12-05 11:17:13
R2-1819200	Support for Logging of 'Any cell selection' state	LG Electronics, SK	agreed	2018-12-05 10:07:54	2018-12-05 11:17:13
R2-1819201	Clarification on handling of default parameters	Ericsson	agreed	2018-12-05 10:08:42	2018-12-05 11:17:13
R2-1819202	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia,	agreed	2018-12-05 10:10:02	2018-12-05 11:17:13
R2-1819203	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia,	agreed	2018-12-05 10:11:04	2018-12-05 11:17:13
R2-1819204	n1PUCCH-AN-CS-ListP1-r13 ASN.1 error correction	Nokia,	agreed	2018-12-05 10:11:56	2018-12-05 11:17:13
R2-1819205	Inter-band EN-DC Configured Output Power requirements	Ericsson	agreed	2018-12-05 10:12:35	2018-12-05 11:17:13
R2-1819206	Reply LS on Interim conclusions for SA2 study on Radio Capabilities Signalling Optimisations	RAN2	available	2019-01-17 18:35:46	2019-01-18 09:09:08

APPENDIX G

Subject: RAN2 CR implementation status, post-RAN#81, (v7)
From: Juha Korhonen <Juha.Korhonen@ETSI.ORG>
Reply To: Juha Korhonen <Juha.Korhonen@ETSI.ORG>
Date: Tue, 25 Sep 2018 10:38:02 +0000
Content-Type: multipart/alternative
Parts/Attachments: text/plain (1447 bytes) , text/html (35 kB)

Dear All,

I have uploaded two new draft versions for review:
Draft_38304-f10
Draft_38331-f30_v4 (addition of “MobilityFromNRCommand" to "DL-DCCH-Message".

I have also uploaded three final spec versions to 3GU:
37324-f10
37340-f30
38321-f30

BR,
Juha

****

Overview of RAN2 CR implementation status after RAN#81 - 25.09.2018

Spec	REL-13	REL-14	REL-15	CRs	Rapporteur
36.300		1	13	14	Tero Henttonen (Nokia)
36.304		1	8	9	Jarkko Koskela (Nokia)
36.305			1	1	Masato Kitazoe (Qualcomm)
36.306		1	16	17	Ravi Kuchibhotla (Motorola Mobility)
36.321		3	17	20	Mats Folke (Ericsson)
36.323			3	3	SeungJune Yi (LGE)
36.331	3	12	42	57	Himke van der Velde (Samsung)
36.355		2	7	9	Masato Kitazoe (Qualcomm)
37.324			3 (OK)	3	Hao Bi (Huawei)
37.340			10 (v2) (OK)	10	Sergio Parolari (ZTE)
38.300			17	17	Benoist Sebire (Nokia)
38.304			1	1	Ozcan Oztruk (Qualcomm)
38.305			2	2	Sven Fischer (Qualcomm)
38.306			3	3	Kyeongin Jeong (Intel)
38.321			48 (v2) (OK)	48	Jaehyuk Jang (Samsung)
38.322			1 (OK)	1	Pavan Nuggehalli (MediaTek)
38.323			1	1	SeungJune Yi (LGE)
38.331			1 (v4)	1	Håkan Palm (Ericsson)
total	**3**	**20**	**194**	**217**	

blue: draft spec is available for review
yellow: updated draft spec (based on review comments) is available for review
green: the final version is uploaded and available via 3GU and ftp.
OK = The rapporteur has approved this version.

The draft specifications for review will be available here:
ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/201809_draft_specs_after_RAN_81/

All draft specs were implemented with revision marks.

APPENDIX H

3GPP_TSG_RAN_WG2 Archives
June 2018, Week 4

New in LISTSERV 17.0

3GPP_TSG_RAN_WG2@LIST.ETSI.ORG

Options: Use Proportional Font
Show Text Part by Default
Show All Mail Headers

Message: [<< First] [< Prev] [Next >] [Last >>]
Topic: [<< First] [< Prev] [Next >] [Last >>]
Author: [<< First] [< Prev] [Next >] [Last >>]

Subject: RAN2 CR implementation status (after RAN#80), v3
From: Juha Korhonen <Juha.Korhonen@ETSI.ORG>
Reply To: Juha Korhonen <Juha.Korhonen@ETSI.ORG>
Date: Mon, 25 Jun 2018 10:32:11 +0000
Content-Type: multipart/alternative
Parts/Attachments: text/plain (1603 bytes) , text/html (50 kB)

Dear All,

I have uploaded draft 36.300; Rel-13, Rel-14 and Rel-15 versions for review.
ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/201806_draft_specs_after_RAN_80/

Please give your comments by Wednesday evening next week (04.07), though earlier comments are welcome since next week many RAN2 delegates are busy with the NR AdHoc meeting.

BR,
Juha

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Overview of RAN2 CR implementation status after RAN#80 - 25.06.2018

Spec	REL-10	REL-11	REL-12	REL-13	REL-14	REL-15	CRs	Rapporteur
36.300				1	7	32	40	Tero Henttonen (Nokia)
36.302						3	3	Chunli Wu (Nokia)
36.304						7	7	Jarkko Koskela (Nokia)
36.305						1	1	Masato Kitazoe (Qualcomm)
36.306				1	9	26	36	Ravi Kuchibhotla (Motorola Mobility)
36.314						1	1	Jun Chen (HiSilicon)
36.321				1	9	23	33	Mats Folke (Ericsson)
36.322						2	2	Toru Uchino (NTT DOCOMO)
36.323						5	5	SeungJune Yi (LGE)
36.331	1	3	3	8	22	25 (v5) (OK)	62	Himke van der Velde (Samsung)
36.355					1	5	6	Masato Kitazoe (Qualcomm)
37.320						2	2	Malgorzata Tomala (Nokia)
37.340						13 (v2) (OK)	13	Sergio Parolari (ZTE)
38.300						20 (v3) (OK)	20	Benoist Sebire (Nokia)
38.306						3	3	Kyeongin Jeong (Intel)
38.321						9 (v3) (OK)	9	Jaehyuk Jang (Samsung)
38.322						1	1	Pavan Nuggehalli (MediaTek)
38.323						2 (v2) (OK)	2	SeungJune Yi (LGE)
38.331						1 (OK)	1	Håkan Palm (Ericsson)
total	**1**	**3**	**3**	**11**	**48**	**181**	**247**	

blue: draft spec is available for review
yellow: updated draft spec (based on review comments) is available for review
green: the final version is uploaded and available via 3GU and ftp.
OK = The rapporteur has approved this version.

The draft specifications for review are available here:
ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/201806_draft_specs_after_RAN_80/

All draft specs were implemented with revision marks.

APPENDIX I

LISTSERV
friedhelm.rodermund@iotecc.com
Subscriber Options
LISTSERV Archives
Search Archives
Subscriptions
Preferences
Change Password
Log Out

3GPP_TSG_RAN_WG2@LIST.ETSI.ORG

Options: Use Proportional Font
Show Text Part by Default
Show All Mail Headers

Message: [<< First] [< Prev] [Next >] [Last >>]
Topic: [<< First] [< Prev] [Next >] [Last >>]
Author: [<< First] [< Prev] [Next >] [Last >>]

Subject: review of draft specs (2)
From: Joern Krause <Joern.Krause@ETSI.ORG>
Reply To: Joern Krause <Joern.Krause@ETSI.ORG>
Date: Thu, 18 Sep 2008 15:17:08 +0200
Content-Type: multipart/alternative
Parts/Attachments: text/plain (2956 bytes) , text/html (127 kB)

Dear all,
All new RAN2 specs except 25.331 REL-6, REL-7, REL-8 , i.e. 29 of 32 new specs
are now available for RAN2 #63bis preparations under
ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200809_final_specs_after_RAN_41/

The updated REL-6 and REL-7 versions of 25.331 are stable/ready for publication
in the final specs folder (i.e. it contents should not change anymore).
The only thing that we try to solve is that some delegates reported a rather long delay when opening them.
Currently we assume this is a WORD problem related to the table of contents and we try to
fix this.

For 25.331 REL-8 Sven/Simone/Brian are currently reviewing it solving some CR clashes (see my email of 15.09.08).

I hope to be able to publish the remaining 3 specs on Fri by 14:00 CEST.

BR

Joern

spec	REL-4	REL-5	REL-6	REL-7	REL-8	CRs	specs	rapporteur	email
25.301					1	1	1	Sven Ekemark (Ericsson)	sven.h.ekemark@ericsson.com
25.302					1	1	1	Nicola Puddle (Alcatel-Lucent)	puddle@alcatel-lucent.com
25.304				1	5	6	2	Luis Barreto (Nokia)	luis.barreto@nokia.com
25.306				1	2	3	2	Anders Berggren (Ericsson)	anders.y.berggren@ericsson.com
25.307	2	2	2	2	2	10	5	Mathieu Boue-Lahorgue (Nortel)	boue@nortel.com
25.308				1	5	6	2	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
25.319					1	1	1	formerly: Derek Richards (Nextwave) temporarily: Phil Young (Nextwave)	drichards@nextwave.com pyoung@nextwave.com
25.321		1	1	10	12	24	4	Markus Wimmer (Nokia Siemens Networks)	Markus.Wimmer@nsn.com
25.322				1	1	2	2	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.323					1	1	1	Martin Hans (Infineon)	Martin.Hans@infineon.com
25.331			1	12	20	33	3	Sven Ekemark (Ericsson) / ASN.1: Simone Provvedi (Nokia)	sven.h.ekemark@ericsson.com Simone.Provvedi@nokia.com
25.993					1	1	1	Kevin Hegerty (Alcatel-Lucent)	khegerty@alcatel-lucent.com
34.109				1	-	1	1	Anders Berggren (Ericsson)	anders.y.berggren@ericsson.com
36.300					11	11	1	Benoist Sebire (Nokia Siemens Networks)	benoist.sebire@NSN.COM
36.304					9	9	1	Jarkko Koskela (Nokia)	jarkko.t.koskela@nokia.com
36.321					22	22	1	Magnus Lindstroem (Ericsson) / Arnaud Meylan (Qualcomm)	magnus.q.lindstrom@ericsson.com ameylan@qualcomm.com
36.322					12	12	1	Anil Umesh (NTT DoCoMo)	umesyu@nttdocomo.co.jp
36.323					4	4	1	Seung June Yi (LG)	seungjune@lge.com
36.331					1	1	1	Himke van der Velde (Samsung)	himke.vandervelde@samsung.com
total	2	3	4	29	114	149	32		

ok final spec available
updated draft available
pending comments from rapporteur

Something I forgot to mention:
For 36.331 a second update was provided yesterday with the following changes:

36.331 REL-8:
- 6.3.1, 6.3.4: some more blue tables were replaced
  (see SIB8-SIB11, "*CDMA2000-NeighbourCellInformation*", "HRPD-PreRegistrationInfo")
- 7.1 for "Multiplicity and type constraints definitions": d replaced by s, i.e.
  "This section included" was replaced by "This section includes".

Joern Krause
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ATOM RSS1 RSS2
LIST.ETSI.ORG

APPENDIX J

3GPP_TSG_RAN_WG2 Archives
September 2009, Week 4

New in LISTSERV 17.0

3GPP_TSG_RAN_WG2@LIST.ETSI.ORG

Options: Use Proportional Font
Show Text Part by Default
Show All Mail Headers

Message: [<< First] [< Prev] [Next >] [Last >>]
Topic: [<< First] [< Prev] [Next >] [Last >>]
Author: [<< First] [< Prev] [Next >] [Last >>]

Subject: CR implementation status after RAN #45 (6)
From: Joern Krause <Joern.Krause@ETSI.ORG>
Reply To: Joern Krause <Joern.Krause@ETSI.ORG>
Date: Tue, 29 Sep 2009 14:31:17 +0200
Content-Type: multipart/alternative
Parts/Attachments: text/plain (26 kB) , text/html (764 kB)

Dear all,
Status of the remaining 5 specs:

25.331 REL-7: seems to still open slowly on most PCs even after repair activity,
however it is time to provide it for Miyazaki preparations
(in case we find a solution later we will issue a version 7e1 with
same contents)
=> available in official specs folder
(workaround from Brian in case of too long delay (I have not tried it as I do not have the delay problem):
open first time and if too long delay, kill task via task manager,
then reopen WORD and reopen spec using repaired/recovered" documents on the left)

25.331 REL-8: => available in official specs folder
36.331 REL-8: => available in official specs folder
36.331 REL-9: => available in official specs folder

25.331 REL-9: update2 provided in draft folder with the following changes:
- 7xy changed into 7e0 four times
- , added under "UE-CapabilityContainer-IEs ::= SEQUENCE {"
- some TABs added or removed in ASN.1 for text alignment purposes
- text colour corrections:
- under "UE-RadioAccessCapability-v9xyext-IEs ::= SEQUENCE {"
- in "UE-RadioAccessCapabBandCombList ::= SEQUENCE (SIZE (1..16)) OF BandComb"
- removal of , under "AddOrReconfMAC-ehs-ReordQ-r9 ::= SEQUENCE {"
- removal of "SRNC-RelocationInfo-r9-IEs ::= SEQUENCE {" of CR3774
which was implemented twice due to the update

So only 25.331 REL-9 is not yet available in the final/official version.

BR

Joern

Joern Krause
ETSI MCC
Joern.Krause@etsi.org

From: Joern Krause [mailto:Joern.Krause@ETSI.ORG]
Sent: 29 September 2009 11:25
To: 3GPP_TSG_RAN_WG2
Subject: CR implementation status after RAN #45 (5)

Dear all,
All specs apart from the following 5 specs are available now in the official specs folder and ready for CR preparation for Miyazaki:
- 25.331 REL-7/REL-8: final draft specs are there and will be uploaded to the official specs folder as soon as potential opening delay issue is solved
- 25.331 REL-9: waiting for rapporteur's feedback on the update and will probably produce an update2 today
- 36.331 REL-8/REL-9: ready to be uploaded to the official specs folder

Best regards,

Joern

Overview of implemented RAN2 CRs after RAN #45 (Seville): status Tue 29.09.2009 (after RAN #45)

spec	REL-4	REL-5	REL-6	REL-7	REL-8	REL-9	CRs	specs	rapporteur	email
25.302	-	-	-	1	1	- **	2	2	Nicola Puddle (Alcatel-Lucent)	puddle@alcatel-lucent.com
25.304	-	-	-	1	2	- **	3	2	Brian Martin (Nokia)	brian.2.martin@nokia.com
25.306	-	-	-	3	4	3	10	3	Anders Berggren (Ericsson)	anders.y.berggren@ericsson.com
25.307	1	1	1	1	1	1	6	6	Mathieu Boue-Lahorgue (Nortel)	boue@nortel.com
25.308	-	-	-	-	2	3	5	2	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
25.319	-	-	-	-	1	2	3	2	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.321	-	-	-	3	11	1	15	3	Markus Wimmer (Nokia Siemens Networks)	Markus.Wimmer@nsn.com
25.322	-	-	-	-	2	- **	2	1	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.331	-	-	3	16	47	4	70	4	Kai-Erik Sunell (Ericsson) ASN.1: Brian Martin (Nokia)	kai-erik.sunell@ericsson.com brian.2.martin@nokia.com
25.367	-	-	-	-	1	2	3	2	Jen Chen (Qualcomm)	jenc@qualcomm.com
25.993	-	-	-	-	1	- **	1	1	Kevin Hegerty (Alcatel-Lucent)	khegerty@alcatel-lucent.com
36.300	-	-	-	-	7	21	28	2	Benoist Sebire (Nokia Siemens Networks)	benoist.sebire@nsn.com
36.304	-	-	-	-	3	3	6	2	Jarkko Koskela (Nokia)	jarkko.t.koskela@nokia.com
36.306	-	-	-	-	1	- **	1	1	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
36.321	-	-	-	-	4	2	6	2	Magnus Lindstroem (Ericsson)	magnus.q.lindstrom@ericsson.com
36.322	-	-	-	-	1	- **	1	1	Anil Umesh (NTT DoCoMo)	umesyu@nttdocomo.co.jp
36.331	-	-	-	-	14	7	21	2	Himke van der Velde (Samsung)	himke.vandervelde@samsung.com
UTRA	1	1	4	25	73	16	120	28		
LTE	0	0	0	0	30	33	63	10		
total	1	1	4	25	103	49	183	38		

**: REL-9 spec will not be introduced after RAN #45

purple: draft spec not yet available
blue: draft spec version available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
yellow: updated draft spec available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
green: final "draft" spec version available (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_final_specs_after_RAN_45/) as soon as rapporteur's ok is available
red: official spec available (see ftp://ftp.3gpp.org/Specs/2009-09)

If just 1 or 2 CRs for a spec: will be implemented without revision marks. Others with revision marks.

updated draft specs:
36.331 REL-8: update3
- after some more suggestions from Himke/the rapporteur
  to the table in table problem for section 6.2.2 under "*MobilityFromEUTRACommand* field descriptions"
  I reshuffled some parts (A sentence is now moved from the original table into the Note and the Note
  is moved below the Conditional presence table).

36.331 REL-9: update3
- after some more suggestions from Himke/the rapporteur
  to the table in table problem for section 6.2.2 under "*MobilityFromEUTRACommand* field descriptions"
  I reshuffled some parts (A sentence is now moved from the original table into the Note and the Note
  is moved below the Conditional presence table).

Joern Krause
ETSI MCC
Joern.Krause@etsi.org

From: Joern Krause [mailto:Joern.Krause@ETSI.ORG]
Sent: 28 September 2009 17:38
To: 3GPP_TSG_RAN_WG2
Subject: CR implementation status after RAN #45 (4)

Dear all,
I have updated some more specs (see comments below)
and uploaded most of specs already to the "final specs" folder (see table below).
Most of them are already available in the official specs folder.

In addition I also copied 36.305 v9.0.0 into the final specs folder
as this spec was aprroved by RAN #45 and is now under CR control.
Note: Compared to RP-090977 I had to correct several formatting errors:
- spec cover sheet
- automatic numbering not allowed
- Figures have to have format TH, caption TF
- table header has to be above table in format TH
- change history was not updated
- section number 8.2.3.2.1.1 and 8.2.3.2.1.2 existed twice (1 corrected to 2)
- section number 8.3.3.2.1 and 8.3.3.2.2 existed twice (2 corrected to 3)

Further corrections to be considered by the rapporteur in a future CR:
- Fig. B.4 not visible in normal view.
- reference to Figure x.3 which does not exist
- A lot of Fig. 8.1.3-.. references are wrong and not complete/in sequence (e.g. 8.1.3-1 is missing).
- Fig. 8.2.3-2 missing
- Figure numbering in Annex is confusing: it should start with Fig. B.1-1 instead of Figure B.1
- General comment to figure numbering: To just go down to third level can cause figure numbering problems in the future in case we have to insert a figure.
- Spec is full of editor's notes which should disappear in the future.

Best regards,

Joern

problems to be solved next time:

25.307 REL-9:
- As mentioned before, a new CR will be needed for RAN2 #67bis.

25.993 REL-8:
- Empty TFCS fields might need a new CR for RAN2 #67bis.

spec updates:

25.321 REL-8/REL-9:
- 2 times "-Ind" of CR0527 were missinig for "CMAC-STATUS" in 11.2.2A and are added now

25.302 REL-8:
- CR number corrected in history table (was a copy-and-paste error).

25.331 REL-7:
- font size changed from 9pt to 8pt for "dummy" in
"InterFreqRepQuantityRACH-TDD ::= ENUMERATED {"
- CR3770 (Nokia) had "v7xyNonCriticalExtensions" and "7xy" is replaced by the correct version "7e0" in 4 places.
(Note: As there is no other choice for the version number this should normally be already fixed in the CR.)

25.331 REL-8:
- 10.2.39: Sentence added to note as in CR3747.
- 10.3.3.42: "Note 2" added to semantics description of "Support of common E-DCH" as in CR3747.
- CR3769 (Nokia) had "v7xyNonCriticalExtensions" and "7xy" is replaced by the correct version "7e0" in 4 places.
(Note: As there is no other choice for the version number this should normally be already fixed in the CR.)

25.331 REL-9:
- Text colour of "BandComb ::= INTEGER (1..256)" corrected
- 8.6.6.41: "4> indicate": space replaced by TAB
- CR3726 (Nokia): "V9xyNonCriticalExtensions" corrected to "v9xyNonCriticalExtensions" (lower case v)
- CR3774 ASN.1 was only partly implemented, missing parts were added now with revision marks

Note: Potential opening delays for 25.331 versions will be solved in official 2009-09 versions.

36.331 REL-8:
- Indentations corrected for:
  - "*SystemInformationBlockType9* field descriptions"
  - "*SystemInformationBlockType10* field descriptions"
  - "*SystemInformationBlockType11* field descriptions"
  - "*HandoverCommand* field descriptions"
  - "*AS-Context* field descriptions"
  - "*RRM-Config* field descriptions"
- section 6.2.2 under "*MobilityFromEUTRACommand* field descriptions"
  we have a table in a table (which is not allowed as indicated before.
  In order to avoid further confusion with not visible revision marks and to align with the drafting rules
  I moved the included table below the original table.

36.331 REL-9:
- Indentations corrected for:
  - "*SystemInformationBlockType9* field descriptions"
  - "*SystemInformationBlockType10* field descriptions"
  - "*SystemInformationBlockType11* field descriptions"
  - "*HandoverCommand* field descriptions"
  - "*AS-Context* field descriptions"
  - "*RRM-Config* field descriptions"
- section 6.2.2 under "*MobilityFromEUTRACommand* field descriptions"
  we have a table in a table (which is not allowed as indicated before.
  In order to avoid further confusion with not visible revision marks and to align with the drafting rules
  I moved the included table below the original table.
- 5.2.2.18: . replaced by ;
- 5.2.2.19: . replaced by ;

Overview of implemented RAN2 CRs after RAN #45 (Seville): status Mon 28.09.2009 (after RAN #45)

spec	REL-4	REL-5	REL-6	REL-7	REL-8	REL-9	CRs	specs	rapporteur	email
25.302	-	-	-	1	1	- **	2	2	Nicola Puddle (Alcatel-Lucent)	puddle@alcatel-lucent.com
25.304	-	-	-	1	2	- **	3	2	Brian Martin (Nokia)	brian.2.martin@nokia.com
25.306	-	-	-	3	4	3	10	3	Anders Berggren (Ericsson)	anders.y.berggren@ericsson.com
25.307	1	1	1	1	1	1	6	6	Mathieu Boue-Lahorgue (Nortel)	boue@nortel.com
25.308	-	-	-	-	2	3	5	2	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
25.319	-	-	-	-	1	2	3	2	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.321	-	-	-	3	11	1	15	3	Markus Wimmer (Nokia Siemens Networks)	Markus.Wimmer@nsn.com
25.322	-	-	-	-	2	- **	2	1	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.331	-	-	3	16	47	4	70	4	Kai-Erik Sunell (Ericsson) ASN.1: Brian Martin (Nokia)	kai-erik.sunell@ericsson.com brian.2.martin@nokia.com
25.367	-	-	-	-	1	2	3	2	Jen Chen (Qualcomm)	jenc@qualcomm.com
25.993	-	-	-	-	1	- **	1	1	Kevin Hegerty (Alcatel-Lucent)	khegerty@alcatel-lucent.com
36.300	-	-	-	-	7	21	28	2	Benoist Sebire (Nokia Siemens Networks)	benoist.sebire@nsn.com
36.304	-	-	-	-	3	3	6	2	Jarkko Koskela (Nokia)	jarkko.t.koskela@nokia.com
36.306	-	-	-	-	1	- **	1	1	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
36.321	-	-	-	-	4	2	6	2	Magnus Lindstroem (Ericsson)	magnus.q.lindstrom@ericsson.com
36.322	-	-	-	-	1	- **	1	1	Anil Umesh (NTT DoCoMo)	umesyu@nttdocomo.co.jp
36.331	-	-	-	-	14	7	21	2	Himke van der Velde (Samsung)	himke.vandervelde@samsung.com
UTRA	1	1	4	25	73	16	120	28		
LTE	0	0	0	0	30	33	63	10		
total	1	1	4	25	103	49	183	38		

**: REL-9 spec will not be introduced after RAN #45

purple: draft spec not yet available
blue: draft spec version available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
yellow: updated draft spec available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
green: final "draft" spec version available (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_final_specs_after_RAN_45/) as soon as rapporteur's ok is available
red: official spec available (see ftp://ftp.3gpp.org/Specs/2009-09)

If just 1 or 2 CRs for a spec: will be implemented without revision marks. Others with revision marks.

Joern Krause
ETSI MCC
Joern.Krause@etsi.org

From: Joern Krause [mailto:Joern.Krause@ETSI.ORG]
Sent: 22 September 2009 13:14
To: 3GPP_TSG_RAN_WG2
Subject: CR implementation status after RAN #45 (3)

Dear all,
I have updated 36.300 REL-8, 36.331 REL-8 & REL-9 acc. to rapporteurs' comments (see below).
Furthermore, the draft 25.331 REL-9 is now also available on the 3GPP server (please comment before Fri 25.09.09 midnight Pacific time, thanks). So all draft specs are available.

Finally, it seems that the email address of Mathieu (25.307 rapporteur) is no longer valid.
So any contact information is appreciated.
Best regards,

Joern

Overview of implemented RAN2 CRs after RAN #45 (Seville): status Tue 22.09.2009 (after RAN #45)

spec	REL-4	REL-5	REL-6	REL-7	REL-8	REL-9	CRs	specs	rapporteur	email
25.302	-	-	-	1	1	- **	2	2	Nicola Puddle (Alcatel-Lucent)	puddle@alcatel-lucent.com
25.304	-	-	-	1	2	- **	3	2	Brian Martin (Nokia)	brian.2.martin@nokia.com
25.306	-	-	-	3	4	3	10	3	Anders Berggren (Ericsson)	anders.y.berggren@ericsson.com
25.307	1	1	1	1	1	1	6	6	Mathieu Boue-Lahorgue (Nortel)	boue@nortel.com
25.308	-	-	-	-	2	3	5	2	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
25.319	-	-	-	-	1	2	3	2	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.321	-	-	-	3	11	1	15	3	Markus Wimmer (Nokia Siemens Networks)	Markus.Wimmer@nsn.com
25.322	-	-	-	-	2	- **	2	1	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.331	-	-	3	16	47	4	70	4	Kai-Erik Sunell (Ericsson) ASN.1: Brian Martin (Nokia)	kai-erik.sunell@ericsson.com brian.2.martin@nokia.com
25.367	-	-	-	-	1	2	3	2	Jen Chen (Qualcomm)	jenc@qualcomm.com
25.993	-	-	-	-	1	- **	1	1	Kevin Hegerty (Alcatel-Lucent)	khegerty@alcatel-lucent.com
36.300	-	-	-	-	7	21	28	2	Benoist Sebire (Nokia Siemens Networks)	benoist.sebire@nsn.com
36.304	-	-	-	-	3	3	6	2	Jarkko Koskela (Nokia)	jarkko.t.koskela@nokia.com
36.306	-	-	-	-	1	- **	1	1	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
36.321	-	-	-	-	4	2	6	2	Magnus Lindstroem (Ericsson)	magnus.q.lindstrom@ericsson.com
36.322	-	-	-	-	1	- **	1	1	Anil Umesh (NTT DoCoMo)	umesyu@nttdocomo.co.jp
36.331	-	-	-	-	14	7	21	2	Himke van der Velde (Samsung)	himke.vandervelde@samsung.com
UTRA	1	1	4	25	73	16	120	28		
LTE	0	0	0	0	30	33	63	10		
total	1	1	4	25	103	49	183	38		

**: REL-9 spec will not be introduced after RAN #45

purple: draft spec not yet available
blue: draft spec version available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
yellow: updated draft spec available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
green: final "draft" spec version available (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_final_specs_after_RAN_45/) as soon as rapporteur's ok is available
red: official spec available (see ftp://ftp.3gpp.org/Specs/2009-09)

If just 1 or 2 CRs for a spec: will be implemented without revision marks. Others with revision marks.

Further comments to CR implementation/updates:

25.331 REL-9:
- CR3774 (Ericsson):
  - 8.5.33: note not added as already there (clashing with REL-8)
  - 8.6.6.x/8.6.6.48: Note added without revision marks (I added it despite this mistake).
  - reference 8.6.6.y does not exist, corrected to 8.6.6.x
- CR3726 (Nokia):
  - "UE-CapabilityContainer-IEs ::= SEQUENCE {": V9xy... instead of v9xy...?
- CR3727 (Nokia):
  - clashing with CR3726, "UE-CapabilityContainer-IEs ::= SEQUENCE {" changes not introduced a second time

updates:
36.300 REL-8:
- 19.2.2.3: "Note" replaced by "NOTE"

36.331 REL-8:
- curly quotes replaced by straight quotes (single and double) wherever applicable.
- one " removed in references with three ".
- 5.2.2.18: . replaced by ;
- after table B.1-2 a "the" was inserted

36.331 REL-9:
- curly quotes replaced by straight quotes (single and double) wherever applicable.
- one " removed in references with three ".
- 5.3.1.2: "the" added
- 5.3.2.2: "a" added
- 5.3.10.0: . replaced by ;
- 5.4.3.3: NOTE numbered now, : added
- 5.4.4.3: : added, . replaced by ;
- "*SystemInformationBlockType1* field descriptions": UEs instead of UE (twice)
- "*AntennaInfo* field descriptions": , removed
- "*CQI-ReportConfigExt*" pararaph directly placed after "*CQI-ReportConfig*" (alphabetic order) and in ASN.1 "}" added
- "*RLF-TimersAndConstants*" pararaph directly placed after "*RAT-Type*" (alphabetic order)
- "TS" added under "UE-CapabilityRAT-ContainerList"
- non-editorial but very obvious: "f4" replaced by "t4" for "*maxRetxThreshold*" in 9.2.1.2 (there is no value f4 see ASN.1)
- A.6 "RRCConnectionRelease": justification spelling error corrected
- under "Paging-v9x0-IEs ::= SEQUENCE {": "V9x0" replaced by "v9x0", comma removed
- under "RadioResourceConfigDedicated ::= SEQUENCE {": comma removed

---

Joern Krause
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From: Joern Krause [mailto:Joern.Krause@ETSI.ORG]
Sent: 21 September 2009 09:49
To: 3GPP_TSG_RAN_WG2
Subject: CR implementation status after RAN #45 (2)

Dear all,
A second set of draft specs is available in the drafts folder on the 3GPP server for review:
36.300 REL-9, 25.321 REL-8 & REL-9, 25.331 REL-7 & REL-8.
Only pending spec: 25.331 REL-9.
Comments (esp. from rapporteurs) to this second set of specs are welcome before Thu 24.09.09 midnight Pacific time.
Best regards,

Joern

Overview:
Overview of implemented RAN2 CRs after RAN #45 (Seville): status Mon 21.09.2009 (after RAN #45)

spec	REL-4	REL-5	REL-6	REL-7	REL-8	REL-9	CRs	specs	rapporteur	email
25.302	-	-	-	1	1	- **	2	2	Nicola Puddle (Alcatel-Lucent)	puddle@alcatel-lucent.com
25.304	-	-	-	1	2	- **	3	2	Brian Martin (Nokia)	brian.2.martin@nokia.com
25.306	-	-	-	3	4	3	10	3	Anders Berggren (Ericsson)	anders.y.berggren@ericsson.com
25.307	1	1	1	1	1	1	6	6	Mathieu Boue-Lahorgue (Nortel)	boue@nortel.com
25.308	-	-	-	-	2	3	5	2	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
25.319	-	-	-	-	1	2	3	2	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.321	-	-	-	3	11	1	15	3	Markus Wimmer (Nokia Siemens Networks)	Markus.Wimmer@nsn.com
25.322	-	-	-	-	2	- **	2	1	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.331	-	-	3	16	47	4	70	4	Kai-Erik Sunell (Ericsson) ASN.1: Brian Martin (Nokia)	kai-erik.sunell@ericsson.com brian.2.martin@nokia.com
25.367	-	-	-	-	1	2	3	2	Jen Chen (Qualcomm)	jenc@qualcomm.com
25.993	-	-	-	-	1	- **	1	1	Kevin Hegerty (Alcatel-Lucent)	khegerty@alcatel-lucent.com
36.300	-	-	-	-	7	21	28	2	Benoist Sebire (Nokia Siemens Networks)	benoist.sebire@nsn.com
36.304	-	-	-	-	3	3	6	2	Jarkko Koskela (Nokia)	jarkko.t.koskela@nokia.com
36.306	-	-	-	-	1	- **	1	1	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
36.321	-	-	-	-	4	2	6	2	Magnus Lindstroem (Ericsson)	magnus.q.lindstrom@ericsson.com
36.322	-	-	-	-	1	- **	1	1	Anil Umesh (NTT DoCoMo)	umesyu@nttdocomo.co.jp
36.331	-	-	-	-	14	7	21	2	Himke van der Velde (Samsung)	himke.vandervelde@samsung.com
UTRA	1	1	4	25	73	16	120	28		
LTE	0	0	0	0	30	33	63	10		
total	1	1	4	25	103	49	183	38		

**: REL-9 spec will not be introduced after RAN #45

purple: draft spec not yet available
blue: draft spec version available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
yellow: updated draft spec available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
green: final "draft" spec version available (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_final_specs_after_RAN_45/) as soon as rapporteur's ok is available
red: official spec available (see ftp://ftp.3gpp.org/Specs/2009-09)

If just 1 or 2 CRs for a spec: will be implemented without revision marks. Others with revision marks.

36.300 REL-9:
- CR0117r2 (Huawei):
  - CR contains changes on changes (not allowed).
- CR0115r2 (Motorola):
  - contains automatic numbering (not allowed)

25.321 REL-8:
- CR0527 (Infineon) & CR0530 (Nokia) clashing:
  Both remove "(Timer Tmax in figures 11.2.2A-2)" in 11.2.2A.
- CR0556R1 (LG):
  Figure inserted in CR without revision marks (not allowed). I inserted it in the spec but please check.
- CR0557 (LG):
  Not based on latest spec version (not allowed).

25.331 REL-7:
- CR3770r1 (Nokia): CR does not indicate where "RRCConnectionRequest-v7xyext-IEs ::= SEQUENCE {" and "RRCConnectionRequest-v860ext-IEs ::= SEQUENCE {" paragraphs should be placed (not allowed).
  Existing spec text has to be visible before and after a change.
- CR3777 (ZTE):
  In 10.3.6.41C a "which" was not marked with revision marks (not allowed), but I included it (same for REL-8 CR3778)

25.331 REL-8:
- CR3792 (TD Tech) clashing with CR3810 (Panasonic): Check "InterRATHandoverInfo ::= SEQUENCE {" and "InterRATHandoverInfo-v860ext-IEs ::= SEQUENCE {".
- CR3813 (Qualcomm):
  Please do not highlight text with revision marks. Text highlighting will not be included in the specs.
- CR3738 (Qualcomm):
  - Fig.8.3.1-6a not visible in normal mode/violating drafting rules. Check created figure.
  - General comment to section 8.3.1.7: We have several times "If CELL UPDATE CONFIRM message:" paragraphs which is an invitation for errors (in CRs and CR implementation) and which makes it difficult to read.
    I therefore inserted some line breaks to indicate where the paragraphs are ending.
- CR3765 (Nokia): language changes ignored in CR implementation
- CR3785 (Interdigital): can not be implemented as section 11.8.1.6 does not exist in 25.331

Joern Krause
ETSI MCC
Joern.Krause@etsi.org

From: Joern Krause [mailto:Joern.Krause@ETSI.ORG]
Sent: 18 September 2009 17:23
To: 3GPP_TSG_RAN_WG2
Subject: CR implementation status after RAN #45 (1)

Dear all,
Please find attached the list of RAN2 CRs at RAN #45 and below an overview of the 183 RAN #45 approved CRs to 38 RAN2 specs.

Some first draft specs are already available for review on the ftp server (see links below).
Comments (esp. from rapporteurs) to this first set of specs are welcome before Wed 23.09.09 midnight Pacific time.

6 specs indicated in purple are pending. Next one will be 36.300 in order to complete ITU-R submission.

Best regards,

Joern

Overview of implemented RAN2 CRs after RAN #45 (Seville): status Fri 18.09.2009 (after RAN #45)

spec	REL-4	REL-5	REL-6	REL-7	REL-8	REL-9	CRs	specs	rapporteur	email
25.302	-	-	-	1	1	- **	2	2	Nicola Puddle (Alcatel-Lucent)	puddle@alcatel-lucent.com
25.304	-	-	-	1	2	- **	3	2	Brian Martin (Nokia)	brian.2.martin@nokia.com
25.306	-	-	-	3	4	3	10	3	Anders Berggren (Ericsson)	anders.y.berggren@ericsson.com
25.307	1	1	1	1	1	1	6	6	Mathieu Boue-Lahorgue (Nortel)	boue@nortel.com
25.308	-	-	-	-	2	3	5	2	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
25.319	-	-	-	-	1	2	3	2	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.321	-	-	-	3	11	1	15	3	Markus Wimmer (Nokia Siemens Networks)	Markus.Wimmer@nsn.com
25.322	-	-	-	-	2	- **	2	1	Kundan Kumar Lucky (Samsung)	kklucky@samsung.com
25.331	-	-	3	16	47	4	70	4	Kai-Erik Sunell (Ericsson) ASN.1: Brian Martin (Nokia)	kai-erik.sunell@ericsson.com brian.2.martin@nokia.com
25.367	-	-	-	-	1	2	3	2	Jen Chen (Qualcomm)	jenc@qualcomm.com
25.993	-	-	-	-	1	- **	1	1	Kevin Hegerty (Alcatel-Lucent)	khegerty@alcatel-lucent.com
36.300	-	-	-	-	7	21	28	2	Benoist Sebire (Nokia Siemens Networks)	benoist.sebire@nsn.com
36.304	-	-	-	-	3	3	6	2	Jarkko Koskela (Nokia)	jarkko.t.koskela@nokia.com
36.306	-	-	-	-	1	- **	1	1	Ravi Kuchibhotla (Motorola)	Ravi.Kuchibhotla@motorola.com
36.321	-	-	-	-	4	2	6	2	Magnus Lindstroem (Ericsson)	magnus.q.lindstrom@ericsson.com
36.322	-	-	-	-	1	- **	1	1	Anil Umesh (NTT DoCoMo)	umesyu@nttdocomo.co.jp
36.331	-	-	-	-	14	7	21	2	Himke van der Velde (Samsung)	himke.vandervelde@samsung.com
UTRA	1	1	4	25	73	16	120	28		
LTE	0	0	0	0	30	33	63	10		
total	1	1	4	25	103	49	183	38		

**: REL-9 spec will not be introduced after RAN #45
( ): company contributions (as far as aware of)

purple: draft spec not yet available
blue: draft spec version available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
yellow: updated draft spec available for review (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_draft_specs_after_RAN_45/)
green: final "draft" spec version available (see ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/200909_final_specs_after_RAN_45/) as soon as rapporteur's ok is available
red: official spec available (see ftp://ftp.3gpp.org/Specs/2009-09)

If just 1 or 2 CRs for a spec: will be implemented without revision marks. Others with revision marks.

Some further comments from the CR implementation:

25.307 REL-9:
- CR0088r1 (NTT DOCOMO): As REL-9 spec is based on REL-8 spec after introducing REL-8 CRs,
the references do not fit and section 20 of REL-8 remains.
New CR will be needed next meeting to correct this.

25.308 REL-9:
- CR0074r1 (Qualcomm): I am not sure whether it was really intended to add the last sentence "Either of the serving ..."
to the last bullet (as in the CR) or below the bullet list. Please check.

25.321 REL-8:
- CR0555r1 (LG): fig. 4.2.4.1.1 replaced figure was not added with revision marks. So in contrast to the CR
I included the new figure. Please check.

36.300 REL-8:
- CR0109 (LG):
  - Under 5.3 in 4. MCH: Asian formatting ignored (MCH still needed?)

36.331 REL-8:
- CR0202 (Samsung): The CR shows that we have to avoid tables in tables as otherwise revisions will not be visible
which is esp. critical in bigger CRs.
Note: 3GPP drafting rules TR 21.801 section 6.6.5.1: "A table within a table is not permitted."
This means we will have to find a solution (unfortunately, now for REL-8 and REL-9).
Fortunately, it seems we have just one case so far. ***Himke****: Could you check and consider a CR to correct this?*

36.331 REL-9:
- CR0243 (Samsung):
  - section 9.2.1.2: I guess the other 2 "Infinity" should also be "infinity". I corrected this.
Why is the threshold now "f4" instead of "t4"? I kept the "f4".
- CR0252 (Qualcomm):
CR does not specify (not allowed, existing spec text has to appear before and afterwards)
where to put the last new ASN.1 part on "*SystemInformationBlockType12*". So please check.
In addition one question from my side: We have section 6.3.1 for System infos but System info 1 is not included
but appears somewhere else. Any reason for this?

- CR0220 (Ericsson):
  - Just to confirm: [[ ]] allowed in ASN.1?
  - new "*RLF-TimersAndConstants*" really intended to be not in alphabetical sequence?

- CR0247 (NSN):
  - new "*CQI-ReportConfigExt*" really intended to be not in alphabetical sequence?

36.331 general comment:
The spec uses a lot of spec specific styles that are not part of 3GPP styles.
This is not in line with drafting rules and causes problems in CR drafting and CR implementation
(e.g. copying text from CRs into spec tables introduces hanging paragraphs with paragraph separations
different from those used in the spec).

Joern Krause
ETSI MCC
Joern.Krause@etsi.org

ATOM RSS1 RSS2

LIST.ETSI.ORG

APPENDIX K

3GPP_TSG_RAN_WG2@LIST.ETSI.ORG

Subject: RAN2 CR implementation status, post-RAN#81, (v10)
From: Juha Korhonen <Juha.Korhonen@ETSI.ORG>
Reply To: Juha Korhonen <Juha.Korhonen@ETSI.ORG>
Date: Wed, 26 Sep 2018 23:15:27 +0000
Content-Type: multipart/alternative
Parts/Attachments: text/plain (1593 bytes) , text/html (36 kB)

Dear All,

I have uploaded for review the draft versions of 36.300 (Rel-14 & Rel-15), 36.304 (Rel-14 & Rel-15) and 36.305 (Rel-15):
Draft_36300-e80
Draft_36300-f30
Draft_36304-e70
Draft_36304-f10
Draft_36305-f10

ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/201809_draft_specs_after_RAN_81/

I have also uploaded the final versions of 38.300 and 38.331 to 3GU.

BR,
Juha

****

Overview of RAN2 CR implementation status after RAN#81 - 27.09.2018

Spec	REL-13	REL-14	REL-15	CRs	Rapporteur
36.300		1	13	14	Tero Henttonen (Nokia)
36.304		1	8	9	Jarkko Koskela (Nokia)
36.305			1	1	Masato Kitazoe (Qualcomm)
36.306		1	16	17	Ravi Kuchibhotla (Motorola Mobility)
36.321		3	17	20	Mats Folke (Ericsson)
36.323			3	3	SeungJune Yi (LGE)
36.331	3	12	42	57	Himke van der Velde (Samsung)
36.355		2	7	9	Masato Kitazoe (Qualcomm)
37.324			3 (OK)	3	Hao Bi (Huawei)
37.340			10 (v2) (OK)	10	Sergio Parolari (ZTE)
38.300			17 (v2) (OK)	17	Benoist Sebire (Nokia)
38.304			1	1	Ozcan Oztruk (Qualcomm)
38.305			2 (OK)	2	Sven Fischer (Qualcomm)
38.306			3	3	Kyeongin Jeong (Intel)
38.321			48 (v2) (OK)	48	Jaehyuk Jang (Samsung)
38.322			1 (OK)	1	Pavan Nuggehalli (MediaTek)
38.323			1	1	SeungJune Yi (LGE)
38.331			1 (v6) (OK)	1	Håkan Palm (Ericsson)
total	**3**	**20**	**194**	**217**	

blue: draft spec is available for review
yellow: updated draft spec (based on review comments) is available for review
green: the final version is uploaded and available via 3GU and ftp.
OK = The rapporteur has approved this version.

The draft specifications for review will be available here:
ftp://ftp.3gpp.org/tsg_ran/WG2_RL2/Specifications/201809_draft_specs_after_RAN_81/

All draft specs were implemented with revision marks.