EXHIBIT 25

EXHIBIT
1022

February 8, 2024
Performed by: EDWIN

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Assignee:	HERNANDEZ MONDRAGON EDWIN A
Title:	Method, system, and apparatus for multimedia content delivery to cable TV and satellite operators
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Inventor:	HERNANDEZ-MONDRAGON EDWIN A
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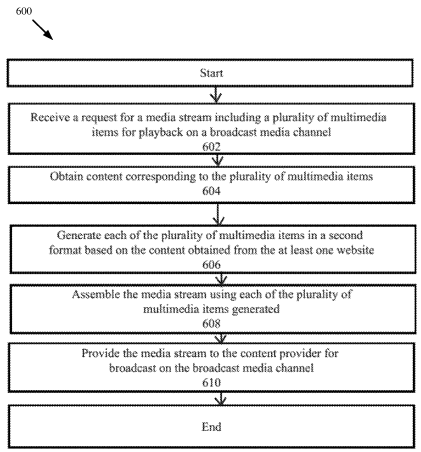


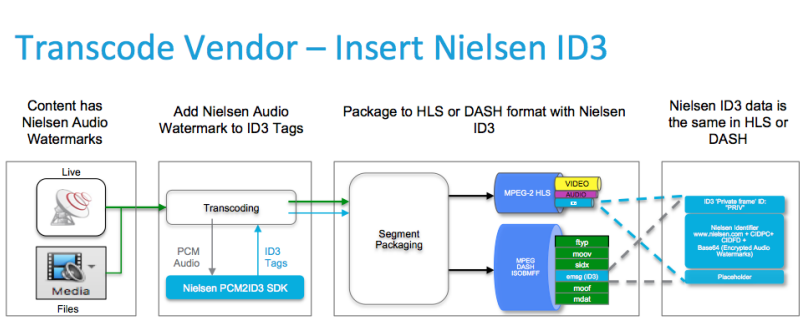
Abstract: Systems, methods, and computer-readable media for delivering multimedia content from the cloud to cable operators are disclosed. A device located at the cable headend or implemented in the cloud can receive a request for at least one media stream for playback on a broadcast media channel. Content corresponding to a plurality of multimedia files in the media stream can be obtained from the internet or a cloud based service. The content can be used to generate the multimedia files in a format that is compatible with the cable operator. The multimedia files can be used to assemble the at least one media stream which can be provided to the cable operator for broadcast on the broadcast media channel.

Claims:

1	A computer-implemented method, comprising:	
	[a] receiving, from a content provider, a request for at least one media stream for playback on a broadcast media channel, wherein the at least one media stream includes a plurality of multimedia items of different types;	See Claim 10[b] from the '441 Patent
	[b] obtaining content corresponding to the plurality of multimedia items from at least one source offering the content in at least one first format;	The content is retrieved from the Sam-Cache e.g. Playlists and the /data is uploaded from the file-streaming-service.mtl.stingray.com. See Claim 10[c] of '441 Patent.
	[c] rendering a web page by a browser using the content;	See Claim 10[d] of '441 Patent.

	[c] generating a temporal sequence of screen captures of the rendered web page, where each screen capture defines all the content of the web page at a given time, and at least two adjacent screen captures illustrate a dynamic change of at least a portion of the content over time;	See Claim 10[e] of '441 Patent
	[d] assembling the at least one media stream using the temporal sequence of screen captures; and	See Claim 10[f] of '441 Patent
	[e] providing the at least one media stream to the content provider for broadcast on the broadcast media channel;	See Claim 10[g] of '441 Patent
	[f] wherein the at least one media stream corresponds to at least one of an HTTP live stream (HLS), an HTTP playlist, and a Real-time Streaming Transport (RTSP) stream; and	At leaste one media stream is HLS for example EGLA-TRELLO-000668.
	[g] wherein the web page is rendered in parallel in multiple threads.	See EGLA-TRELLO-0000532 where the /bin/GalaxieAduioEngine loads boost:detail_thread_data indicating that all rendering occurs in parallel in several threads. EGLA-TRELLO-000539 confirms that in case of some errors. Lowering the number of threads to 1 could help the GalaxieClient.
2	The method according to claim 1, wherein the at least one media stream is interacted with MPEG two way control messages.	N/A
3	The method according to claim 1, wherein MPEG messages are sent to a service provider via a unicast address.	The application use a unicast address, where MPEG TS in the HLS (HTTP Live Stream Link are used)
4	A computer-implemented method, comprising:	

	[a] receiving, from a content provider, a request for at least one media stream for playback on a broadcast media channel, wherein the at least one media stream includes a plurality of multimedia items of different types;	See Claim 10[b] from the '441 Patent
	[b] obtaining content corresponding to the plurality of multimedia items from at least one source offering the content in at least one first format;	The content is retrieved from the Sam-Cache e.g. Playlists and the /data is uploaded from the file-streaming-service.mtl.stingray.com. See Claim 10[c] of '441 Patent.
	[c] rendering a web page by a browser using the content;	See Claim 10[d] of '441 Patent.
	[d] generating a temporal sequence of screen captures of the rendered web page, where each screen capture defines all the content of the web page at a given time, and at least two adjacent screen captures illustrate a dynamic change of at least a portion of the content over time;	See Claim 10[e] of '441 Patent.
	[e] assembling the at least one media stream using the temporal sequence of screen captures; and	See Claim 10[f] of '441 Patent.
	[f] providing the at least one media stream to the content provider for broadcast on the broadcast media channel;	See Claim 10[g] of '441 Patent.

	[g] wherein assembling the at least one media stream comprises inserting at least one MPEG packet including metadata corresponding to the multimedia item; and	The insert of metadata for example NielsenEncoderComponent in the MPEG Packet includes metadata for example, title and artist information, as shown at EGLA-TRELLO-000511 *<AudioStream id="aud" abstract="true" source="aacAudioSystem"/>* *<AudioSystem id="aacAudioSystem" scheduler="defaultScheduler" scope="prototype" depends-on="globals" >* *<EncoderComponent file="conf/ac3.xml"/>* *<XFadeController DefaultPlayoutDecibelLevel="-27"/> <!-- WARNING: adjust ac3 dial norm consequently -->* *</AudioSystem>{code}* *AudioSystem Sample with NielsenWatermarkEncoderComponent :* *{code:xml}* *<AudioStream id="aud1" abstract="true" source="AudioSystem"/>* *<AudioSystem id="AudioSystem" scheduler="Scheduler1" depends-on="globals" scope="prototype">* *<EncoderComponent file="conf/ac3.xml" />* *<NielsenWatermarkEncoderComponent config="nwc" scope="prototype"/>* *<XFadeController />* *</AudioSystem>{code}* The Nielsen Project Canada Clients is listed as part of EGLA-TRELLO-0000664. The NielsenTranscode "Insert Nielsend ID3" an MPEG2 field is added as shown at EGLA-TRELLO-000665 

	[h] wherein the web page is rendered in parallel in multiple threads.	The web-page is rendered in multiple threads as shown at EGLA-TRELLO-0000488 shows the threads used by the GalaxieFrameworklso which indeed refers to the GalaxieAduioEngine module. *2016-02-04 08:52:00: [ERROR] /usr/lib64/libGalaxieFramework.so : SignalTranslator<SegmentationFault>::SingletonTranslator::SignalHandler(int)+0x25* *2016-02-04 08:52:00: [ERROR] /usr/java/latest/jre/lib/amd64/server/libjvm.so [0x2b042e739f59]* *2016-02-04 08:52:00: [ERROR] /usr/java/latest/jre/lib/amd64/server/libjvm.so : JVM_handle_linux_signal()+0xb6* *2016-02-04 08:52:00: [ERROR] /lib64/libpthread.so.0 [0x356d40eca0]* *2016-02-04 08:52:00: [ERROR] /lib64/libpthread.so.0 : pthread_mutex_lock()+0* *2016-02-04 08:52:00: [ERROR] /usr/local/lib64/libboost_thread.so.1.43.0 : boost::thread::get_thread_info() const+0x1c* *2016-02-04 08:52:00: [ERROR] /usr/local/lib64/libboost_thread.so.1.43.0 : boost::thread::join()+0x26* *2016-02-04 08:52:00: [ERROR] /usr/lib64/libGalaxieFramework.so : ASI_Output::Stop()+0x68* *2016-02-04 08:52:00: [ERROR] bin/GalaxieAudioEngine : Multiplexer::StopWorking()+0x47* *2016-02-04 08:52:00: [ERROR] bin/GalaxieAudioEngine : Multiplexer::StartWorking()+0x2a7* *2016-02-04 08:52:00: [ERROR] bin/GalaxieAudioEngine : Chain::StartWorking()+0x4e* *2016-02-04 08:52:00: [ERROR] bin/GalaxieAudioEngine : MainController::StartChains()+0x78* *2016-02-04 08:52:00: [ERROR] bin/GalaxieAudioEngine : MainController::Start()+0x9* *2016-02-04 08:52:00: [ERROR] bin/GalaxieAudioEngine : GalaxieAudioEngine::Start()+0x65* *2016-02-04 08:52:00: [ERROR] bin/GalaxieAudioEngine : main()+0x1f* *2016-02-04 08:52:00: [ERROR] /lib64/libc.so.6 : libc_start_main()+0xf4*
5	The computer-implemented method of claim 4, wherein the at least one media stream is interacted with MPEG two way control messages.	There is no evidence on trello.com of this limitation.

6	The computer-implemented method of claim 4, wherein MPEG messages are sent to a service provider via a unicast address.	The MPEG files are generated as .ts in the HLS format . As shown: curl "https://ott-linear-channels.stingray.com/v1/master /734895816ccb1e836f8c1e81f772244d9be0077c/155/ ../../../manifest/734895816ccb1e836f8c1e81f772244d9be0077c/155/ad3eeffe-c42a-4aa5-b3c7-f7b3224c3bb5/0.m3u8" #EXTM3U #EXT-X-VERSION:3 #EXT-X-TARGETDURATION:7 #EXT-X-MEDIA-SEQUENCE:5450182 #EXT-X-DISCONTINUITY-SEQUENCE:71 #EXT-X-PROGRAM-DATE-TIME:2023-12-14T21:30:39.512Z #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450182.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450183.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450184.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450185.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450186.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450187.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450188.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450189.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450190.ts #EXTINF:1.9019, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450191.ts ffmpeg -i https://ott-linear-channels.stingray.com/155/master_768x432_500kbps_5450191.ts ffmpeg version 6.0 Copyright (c) 2000-2023 the FFmpeg developers built with Apple clang version 14.0.0 (clang-1400.0.29.202)

		configuration: --prefix=/usr/local/Cellar/ffmpeg/6.0 --enable-shared --enable-pthreads --enable-version3 --cc=clang --host-cflags= --host-ldflags= --enable-ffplay --enable-gnutls --enable-gpl --enable-libaom --enable-libaribb24 --enable-libbluray --enable-libdav1d --enable-libmp3lame --enable-libopus --enable-librav1e --enable-librist --enable-librubberband --enable-libsnappy --enable-libsrt --enable-libsvtav1 --enable-libtesseract --enable-libtheora --enable-libvidstab --enable-libvmaf --enable-libvorbis --enable-libvpx --enable-libwebp --enable-libx264 --enable-libx265 --enable-libxml2 --enable-libxvid --enable-lzma --enable-libfontconfig --enable-libfreetype --enable-frei0r --enable-libass --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-libopenjpeg --enable-libspeex --enable-libsoxr --enable-libzmq --enable-libzimg --disable-libjack --disable-indev=jack --enable-videotoolbox libavutil 58. 2.100 / 58. 2.100 libavcodec 60. 3.100 / 60. 3.100 libavformat 60. 3.100 / 60. 3.100 libavdevice 60. 1.100 / 60. 1.100 libavfilter 9. 3.100 / 9. 3.100 libswscale 7. 1.100 / 7. 1.100 libswresample 4. 10.100 / 4. 10.100 libpostproc 57. 1.100 / 57. 1.100 Input #0, mpegts, from 'https://ott-linear-channels.stingray.com/155/master_768x432_500kbps_5450191.ts': Duration: 00:00:01.94, start: 81111.572856, bitrate: 743 kb/s Program 1 Stream #0:0[0x1e1]: Video: h264 (High) ([27][0][0][0] / 0x001B), yuv420p(tv, progressive), 768x432 [SAR 1:1 DAR 16:9], 29.97 fps, 29.97 tbr, 90k tbn Stream #0:1[0x1ec](und): Audio: aac (LC) ([15][0][0][0] / 0x000F), 48000 Hz, stereo, fltp, 128 kb/s **Stream #0:2[0x1f6]: Data: timed_id3 (ID3 / 0x20334449)** As shown the Channels are #0:0 with h264 video, Channel 0:1 the AAC audio, and 0:2 is the timed_id3 tags.
7	A system, comprising:	

	[a] a multicast server configured to generate parameters relating to at least one of video content, image content and audio content, and configured to output the parameters via MPEG outputs;	The Ubiquicast is configured as a multicast server, as shown at EGLA-TRELLO-000066, the multicast server is configured to deliver 100 OSE2 Channels (music plus cover, title, current song, next song) in video plus music content, and video content only as MPEG outputs. (Audio-format MPEG-2) MPTS *Multicast address(es) & port(s) 225.11.0.10 and 11010* *Source IP 192.168.30.10/24* *Note: The Multicast address(es), port(s) & Source IP can be identical or different on the primary and back server.* *Maximum video bit rate Bit rate of the audio should be less 38.8MB in total.*
	[b] a caching server communicatively coupled to the multicast server, and configured to receive and store the parameters, **[c]** create a temporal sequence of screen captures of a rendered web page, where each said screen capture defines content of the rendered web page at a given time, and at least two adjacent screen captures in the temporal sequence illustrate a dynamic change of at least a portion of the video content, image content or audio content over time, **[d]** assemble the temporal sequence of screen captures, and provide at least one of the video content, image content and audio content to the multicast server for generating a multicast stream with MPEG encoded video and audio; and	See Claim 1]a] and 10[a] of the '441 patent the server is either virtualized or not, and configured to store parameters See Claim 10[e] at '441 Patent, See Claim 13[c] and Claim 10[e]

	[e] a monitoring system configured to maintain generation of video and audio files, even in failure cases.	The M/Monit service is use for example: • Song queue is empty at EGLA-TRELLO-000516 • As part of the EGLA-TRELLO-000108, to create an image for the multicast server. the "Update monit" is the 18th step • EGLA-TRELLO-000530 shows that GalaxieUpdater uses UBI_MONIT_LINUX "to facilitate alert updates" including for various components "*e.g. stillpicgenerator, ubimetaserver, ubiquicast, etc.*" M/Monit is a service used as shown at EGLA-TRELLO-0000666 and "M/Monit uses Monit as an agent and can manage and monitor all your hosts and services. M/Monit can start a service if it does not run, restart a service if it does not respond and suspend a service if it uses too much resources"
8	The system according to claim 7, further comprising multiple servers for load balancing and fault-tolerance.	The system of claim 7 has a primary and backup server as part of the ubiquicast device, see EGLA-TRELLO-0000458
9	The system according to claim 7, wherein the multicast server is selected to communicate a multicast stream available for a broadband network.	Sling TV and other services are broadband networks where UbiquiCAST is installed (See EGLA-TRELLO-0006667). 'Stingray Group, a music, media, and technology company, has announced the launch of free, ad-supported TV channels with eleven major OTT providers: Comcast Xfinity (US), DistroTV (US), Freebie TV (US), Freecast (US), MX Player (US and India), Peacock (US), Redbox (US), Samsung TV Plus (UK and Germany), STIRR (US), STV (UK) and Vizio Watch Free (US). These distribution agreements grow Stingray's potential reach by over 200 million viewers. "
10	The system according to claim 7, wherein the video content is encoded in a video streaming format so as to generate a unicast stream.	A unicast stream is known as an HTTP stream, for example HTTP live stream, Stingray uses HTTP Live Stream to deliver its content. For example the link is generated from https://ott-linear-channels.stingray.com/v1/master/734895816ccb1e836f8c1e81f772244d9be0077c/155/master.m3u8 A unicast stream. .

11	The system according to claim 7, wherein the system generates audio MPEG files and add metadata in an MPEG frame.	The MPEG files are generated as .ts in the HLS format . As shown: curl "https://ott-linear-channels.stingray.com/v1/master /734895816ccb1e836f8c1e81f772244d9be0077c/155/ ../../../manifest/734895816ccb1e836f8c1e81f772244d9be0077c/155/ad3eeffe-c42a-4aa5-b3c7-f7b3224c3bb5/0.m3u8" #EXTM3U #EXT-X-VERSION:3 #EXT-X-TARGETDURATION:7 #EXT-X-MEDIA-SEQUENCE:5450182 #EXT-X-DISCONTINUITY-SEQUENCE:71 #EXT-X-PROGRAM-DATE-TIME:2023-12-14T21:30:39.512Z #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450182.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450183.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450184.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450185.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450186.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450187.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450188.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450189.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450190.ts #EXTINF:1.9019, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450191.ts ffmpeg -i https://ott-linear-channels.stingray.com/155/master_768x432_500kbps_5450191.ts ffmpeg version 6.0 Copyright (c) 2000-2023 the FFmpeg developers built with Apple clang version 14.0.0 (clang-1400.0.29.202)

		configuration: --prefix=/usr/local/Cellar/ffmpeg/6.0 --enable-shared --enable-pthreads --enable-version3 --cc=clang --host-cflags= --host-ldflags= --enable-ffplay --enable-gnutls --enable-gpl --enable-libaom --enable-libaribb24 --enable-libbluray --enable-libdav1d --enable-libmp3lame --enable-libopus --enable-librav1e --enable-librist --enable-librubberband --enable-libsnappy --enable-libsrt --enable-libsvtav1 --enable-libtesseract --enable-libtheora --enable-libvidstab --enable-libvmaf --enable-libvorbis --enable-libvpx --enable-libwebp --enable-libx264 --enable-libx265 --enable-libxml2 --enable-libxvid --enable-lzma --enable-libfontconfig --enable-libfreetype --enable-frei0r --enable-libass --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-libopenjpeg --enable-libspeex --enable-libsoxr --enable-libzmq --enable-libzimg --disable-libjack --disable-indev=jack --enable-videotoolbox libavutil 58. 2.100 / 58. 2.100 libavcodec 60. 3.100 / 60. 3.100 libavformat 60. 3.100 / 60. 3.100 libavdevice 60. 1.100 / 60. 1.100 libavfilter 9. 3.100 / 9. 3.100 libswscale 7. 1.100 / 7. 1.100 libswresample 4. 10.100 / 4. 10.100 libpostproc 57. 1.100 / 57. 1.100 Input #0, mpegts, from 'https://ott-linear-channels.stingray.com/155/master_768x432_500kbps_5450191.ts': Duration: 00:00:01.94, start: 81111.572856, bitrate: 743 kb/s Program 1 Stream #0:0[0x1e1]: Video: h264 (High) ([27][0][0][0] / 0x001B), yuv420p(tv, progressive), 768x432 [SAR 1:1 DAR 16:9], 29.97 fps, 29.97 tbr, 90k tbn Stream #0:1[0x1ec](und): Audio: aac (LC) ([15][0][0][0] / 0x000F), 48000 Hz, stereo, fltp, 128 kb/s **Stream #0:2[0x1f6]: Data: timed_id3 (ID3 / 0x20334449)** As shown the Channels are #0:0 with h264 video, Channel 0:1 the AAC audio, and 0:2 is the timed_id3 tags.
12	The system according to claim 7, wherein the system generates MPEG metadata that is interacted with two way broadcast TV systems.	There is no evidence of this element on trello.com
13	A computer-implemented method, comprising:	

	[a] receiving, from a content provider, a request for at least one media stream for playback on a broadcast media channel, wherein the at least one media stream includes a plurality of multimedia items of different types;	See Claim 10[b] from the '441 Patent
	[b] obtaining content corresponding to the plurality of multimedia items from at least one source offering the content in at least one first format;	The content is retrieved from the Sam-Cache e.g. Playlists and the /data is uploaded from the file-streaming-service.mtl.stingray.com. See Claim 10[c] of '441 Patent.
	[c] rendering a web page by a browser using the content;	See Claim 10[d] of '441 Patent.
	[d] generating a temporal sequence of screen captures of the rendered web page, where each screen capture defines all the content of the web page at a given time, and at least two adjacent screen captures illustrate a dynamic change of at least a portion of the content over time;	See Claim 10[e] of '441 Patent
	[e] assembling the at least one media stream using the temporal sequence of screen captures; and	See Claim 10[f] of the '441 Patent
	[f] Providing the at least one media stream to the content provider for broadcast on the broadcast media channel;	See Claim 10[g] of the '441 Patent

	[g] wherein the at least one media stream corresponds to at least one of an HTTP live stream (HLS), an HTTP playlist, and a Real-time Streaming Transport (RTSP) stream; and	The MPEG files are generated as .ts in the HLS format . As shown: curl "https://ott-linear-channels.stingray.com/v1/master /734895816ccb1e836f8c1e81f772244d9be0077c/155/ ../../../manifest/734895816ccb1e836f8c1e81f772244d9be0077c/155/ad3eeffe-c42a-4aa5-b3c7-f7b3224c3bb5/0.m3u8" #EXTM3U #EXT-X-VERSION:3 #EXT-X-TARGETDURATION:7 #EXT-X-MEDIA-SEQUENCE:5450182 #EXT-X-DISCONTINUITY-SEQUENCE:71 #EXT-X-PROGRAM-DATE-TIME:2023-12-14T21:30:39.512Z #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450182.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450183.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450184.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450185.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450186.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450187.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450188.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450189.ts #EXTINF:6.006, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450190.ts #EXTINF:1.9019, https://stirr.ott-channels.stingray.com/155/master_768x432_500kbps_5450191.ts ffmpeg -i https://ott-linear-channels.stingray.com/155/master_768x432_500kbps_5450191.ts ffmpeg version 6.0 Copyright (c) 2000-2023 the FFmpeg developers built with Apple clang version 14.0.0 (clang-1400.0.29.202)

		configuration: --prefix=/usr/local/Cellar/ffmpeg/6.0 --enable-shared --enable-pthreads --enable-version3 --cc=clang --host-cflags= --host-ldflags= --enable-ffplay --enable-gnutls --enable-gpl --enable-libaom --enable-libaribb24 --enable-libbluray --enable-libdav1d --enable-libmp3lame --enable-libopus --enable-librav1e --enable-librist --enable-librubberband --enable-libsnappy --enable-libsrt --enable-libsvtav1 --enable-libtesseract --enable-libtheora --enable-libvidstab --enable-libvmaf --enable-libvorbis --enable-libvpx --enable-libwebp --enable-libx264 --enable-libx265 --enable-libxml2 --enable-libxvid --enable-lzma --enable-libfontconfig --enable-libfreetype --enable-frei0r --enable-libass --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-libopenjpeg --enable-libspeex --enable-libsoxr --enable-libzmq --enable-libzimg --disable-libjack --disable-indev=jack --enable-videotoolbox libavutil 58. 2.100 / 58. 2.100 libavcodec 60. 3.100 / 60. 3.100 libavformat 60. 3.100 / 60. 3.100 libavdevice 60. 1.100 / 60. 1.100 libavfilter 9. 3.100 / 9. 3.100 libswscale 7. 1.100 / 7. 1.100 libswresample 4. 10.100 / 4. 10.100 libpostproc 57. 1.100 / 57. 1.100 Input #0, mpegts, from 'https://ott-linear-channels.stingray.com/155/master_768x432_500kbps_5450191.ts': Duration: 00:00:01.94, start: 81111.572856, bitrate: 743 kb/s Program 1 Stream #0:0[0x1e1]: Video: h264 (High) ([27][0][0][0] / 0x001B), yuv420p(tv, progressive), 768x432 [SAR 1:1 DAR 16:9], 29.97 fps, 29.97 tbr, 90k tbn Stream #0:1[0x1ec](und): Audio: aac (LC) ([15][0][0][0] / 0x000F), 48000 Hz, stereo, fltp, 128 kb/s **Stream #0:2[0x1f6]: Data: timed_id3 (ID3 / 0x20334449)** As shown the Channels are #0:0 with h264 video, Channel 0:1 the AAC audio, and 0:2 is the timed_id3 tags.

	[h] wherein the web page is rendered in parallel in virtual instances or virtual machines.	The web-page is rendered in an ubiquicast and generated in virtual machines as shown in Claim 13[c] of the '441 Patent. Additionally, Dr. Shamos, Stingray's expert testified that "At MC-EGLA-000337 Dr. Shamos, Expert for Stingay testified that such storage was a virtual machine (emphasis added): *Within an exhibit to Dr. Shamos' expert report, Dr. Shamos stated that "[t]he StillPic Generator and the Audio engine are the same piece of software. Thus one does not transmit to the other and the* ***StillPic Generator virtual machine*** *cannot act as 'receiving system' for the Audio Engine." (Dkt. No. 188-5 at 12 (using ECF page number).)"*