**3GPP TSG-RAN WG4 Meeting #104 R4-22xxxxx**

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**Third Generation Partnership Project (3GPP™)**

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## 1 Opening of the E-meeting

The Chairman Xizeng Dai (Huawei) opened the meeting on RAN4 reflector on 09/05/2022.

Intellectual Property Rights Declaration Policy

The attention of the delegates to the meeting of this Technical Specification Group was 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 thereby 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 Information Statement and the Licensing declaration forms.

Statement regarding competition law

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chairman and Vice-Chairmen and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG meetings was important to allow for full and fair consideration of such matters.

Meeting arrangements

The meeting was conducted in two parallel sessions; Main session, and BS RF Test Demod session and one RRM session. The Main session was chaired by RAN4 Chair Xizeng Dai (Huawei), RRM session was chaired by RAN4 Vice Chair Haijie Qiu (Samsung) + RAN4 Chair Xizeng Dai (Huawei) and BS RF Test Demod session was chaired by RAN4 ViceChair Haijie Qiu (Samsung). The sessions were further broken down into separate email threads to address specific technical topics lead by assigned discussion moderators. Webinar sessions were used to summarize progress, resolve controversial issues and decide way forward.

## 2 Approval of the agenda

**R4-2207600 RAN4#102-e Meeting Report**

*Type: report For: Approval  
 Source: ETSI MCC*

**Decision:** The document was **not treated**.

**R4-2207601 Agenda for RAN4#103-e**

*Type: agenda For: Approval  
 Source: RAN4 Chair (Huawei)*

**Decision:** The document was **not treated**.

**R4-2207602 RAN4#103-e E-Meeting Arrangements and Guidelines**

*Type: other For: Approval  
 Source: RAN4 Chair (Huawei)*

**Decision:** The document was **not treated**.

## 3 Letters / reports from other groups / meeting

R4-2207603 LS on updated Rel-17 LTE and NR higher-layers parameter list RAN1 (R1-2202760)

R4-2207604 LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#108-e RAN1 (R1-2202764)

R4-2207605 LS on the dropping rule of DL signals/channels for capability 1B and 2 RAN1 (R1-2202842)

R4-2207606 LS on use of CQI table for NB-IoT DL 16QAM RAN1 (R1-2202880)

R4-2207607 LS on operation with and without SSB for RedCap UE RAN1 (R1-2202886

R4-2207608 LS on UE capability for 16QAM for NB-IoT RAN1 (R1-2202893)

R4-2207609 LS on updated Rel-17 RAN1 UE features list for LTE RAN1 (R1-2202924)

R4-2207610 LS on updated Rel-17 RAN1 UE features list for NR RAN1 (R1-2202927)

R4-2207611 LS on upper layers parameters for Rel-17 eIAB RAN1 (R1-2202947)

R4-2207612 Reply LS to RAN4 on RRM relaxation RAN2 (R2-2203555) Response to: R4-2202675

R4-2207613 Reply LS on Signalling of PC2 V2X intra-band concurrent operation RAN2 (R2-2203686) Response to: R4-2119992

R4-2207614 LS on TCI state indication RAN2 (R2-2203803)

R4-2207615 Reply LS on interruption for PUCCH SCell activation in invalid TA case RAN2 (R2-2203835) Response to: R4-2120420

R4-2207616 LS on coordination of R17 gap features RAN2 (R2-2203879)

R4-2207617 LS on BWP operation without bandwidth restriction RAN2 (R2-2204009)

R4-2207618 LS on measurement gaps enhancements for NTN RAN2 (R2-2204114)

R4-2207619 LS on introduction of an offset to transmit CD-SSB and NCD-SSB at different times RAN2 (R2-2204115)

R4-2207620 Reply LS to RAN4 on RLM/BFD relaxation for ePowSav RAN2 (R2-2204238) Response to: R4-2206790

R4-2207621 LS on TA validation for CG-SDT RAN2 (R2-2204269)

R4-2207622 Questions concerning the implementation of RAN1 agreements in NRPPa RAN3 (R3-222721)

R4-2207623 LS on lower humidity limit in normal temperature test environment RAN5 (R5-221604)

R4-2207624 LS on Additional RF requirements for NS\_03U, NS\_05U and NS\_43U RAN5 (R5-221613)

R4-2207625 LS on SCell Dropping in FR2 RF UL-CA tests RAN5 (R5-221617)

R4-2207626 LS to ISED-Canada to clarify the RSS-195 requirement related to wireless communication service equipment operating in 2305-2320 MHz / 2345-2360 MHz frequency range RAN (RP-221014)

R4-2207627 LS on presentation of EUWENA and involvement in 3GPP on Non Public Network EUWENA (Presentation\_EUWENA\_March2022)

R4-2207628 FREQUENCY ARRANGEMENTS FOR IMT IN THE BAND 470 – 703 MHZ APT Wireless Group (AWG-29/OUT-02) Response to: RP-212629

R4-2207713 Reply to Liaison statement of 3GPP TSG RAN on the inclusion of the 6425-7125 MHz frequency band in the 3GPP specification for 5G-NR / IMT-2020 systems RCC Commission on Spectrum and Satellite Orbits (20220419171637) Response to: R4-2206375

**R4-2207603 LS on updated Rel-17 LTE and NR higher-layers parameter list (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202760, to RAN2, RAN3, cc RAN4***Decision:** The document was **not treated**.

**R4-2207604 LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#108-e (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202764, to RAN2, cc RAN4  
 Source: RAN1*

**Decision:** The document was **not treated**.

**R4-2207605 LS on the dropping rule of DL signals/channels for capability 1B and 2 (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202842, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207606 LS on use of CQI table for NB-IoT DL 16QAM (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202880, to RAN2, cc RAN4***Decision:** The document was **not treated**.

**R4-2207607 LS on operation with and without SSB for RedCap UE (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202886, to RAN2, RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207608 LS on UE capability for 16QAM for NB-IoT (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202893, to RAN4, cc RAN2***Decision:** The document was **not treated**.

**R4-2207609 LS on updated Rel-17 RAN1 UE features list for LTE (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202924, to RAN2, RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207610 LS on updated Rel-17 RAN1 UE features list for NR (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202927, to RAN2, RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207611 LS on upper layers parameters for Rel-17 eIAB (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2202947, to RAN2, RAN3, cc RAN4***Decision:** The document was **not treated**.

**R4-2207612 Reply LS to RAN4 on RRM relaxation (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2203555, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207613 Reply LS on Signalling of PC2 V2X intra-band concurrent operation (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2203686, to RAN4, cc RAN1***Decision:** The document was **not treated**.

**R4-2207614 LS on TCI state indication (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2203803, to RAN4, cc RAN1***Decision:** The document was **not treated**.

**R4-2207615 Reply LS on interruption for PUCCH SCell activation in invalid TA case (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2203835, to RAN4, cc RAN1***Decision:** The document was **not treated**.

**R4-2207616 LS on coordination of R17 gap features (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2203879, to RAN4, cc RAN1***Decision:** The document was **not treated**.

**R4-2207617 LS on BWP operation without bandwidth restriction (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2204009, to RAN1, RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207618 LS on measurement gaps enhancements for NTN (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2204114, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207619 LS on introduction of an offset to transmit CD-SSB and NCD-SSB at different times (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2204115, to RAN1, RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207620 Reply LS to RAN4 on RLM/BFD relaxation for ePowSav (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2204238, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207621 LS on TA validation for CG-SDT (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2204269, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207622 Questions concerning the implementation of RAN1 agreements in NRPPa (RAN3)**

*Type: LS in For: Information  
 Original outgoing LS: R3-222721, to RAN1, RAN2, cc RAN4***Decision:** The document was **not treated**.

**R4-2207623 LS on lower humidity limit in normal temperature test environment (RAN5)**

*Type: LS in For: Information  
 Original outgoing LS: R5-221604, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207624 LS on Additional RF requirements for NS\_03U, NS\_05U and NS\_43U (RAN5)**

*Type: LS in For: Information  
 Original outgoing LS: R5-221613, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207625 LS on SCell Dropping in FR2 RF UL-CA tests (RAN5)**

*Type: LS in For: Information  
 Original outgoing LS: R5-221617, to RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207626 LS to ISED-Canada to clarify the RSS-195 requirement related to wireless communication service equipment operating in 2305-2320 MHz / 2345-2360 MHz frequency range (RAN)**

*Type: LS in For: Information  
 Original outgoing LS: RP-221014, to ISED-Canada, cc RAN4***Decision:** The document was **not treated**.

**R4-2207627 LS on presentation of EUWENA and involvement in 3GPP on Non Public Network (EUWENA)**

*Type: LS in For: Information  
 Original outgoing LS: Presentation\_EUWENA\_March2022, to SA, RAN, CT, cc SA1, SA2, SA6, RAN1, RAN2, RAN3, RAN4, CT1, CT6***Decision:** The document was **not treated**.

**R4-2207628 FREQUENCY ARRANGEMENTS FOR IMT IN THE BAND 470 – 703 MHZ (APT Wireless Group)**

*Type: LS in For: Information  
 Original outgoing LS: AWG-29/OUT-02, to RAN, RAN4, cc -***Decision:** The document was **not treated**.

**R4-2207713 Reply to Liaison statement of 3GPP TSG RAN on the inclusion of the 6425-7125 MHz frequency band in the 3GPP specification for 5G-NR / IMT-2020 systems (RCC Commission on Spectrum and Satellite Orbits)**

*Type: LS in For: Information  
 Original outgoing LS: 20220419171637, to RAN, cc RAN4  
 Source: RCC Commission on Spectrum and Satellite Orbits*

**Decision:** The document was **not treated**.

## 4 Up to Rel-16 maintenance for LTE and NR

### 4.1 NR WIs

**R4-2208198 Draft CR on TS 36.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 36.171 v16.4.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT, CAICT, CENC*

**Decision:** The document was **not treated**.

**R4-2208199 Draft CR on TS 36.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 36.171 v17.0.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT, CAICT, CENC*

**Decision:** The document was **not treated**.

**R4-2208200 Draft CR on TS 38.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 38.171 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT, CAICT, CENC*

**Decision:** The document was **not treated**.

**R4-2208201 Draft CR on TS 38.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 38.171 v17.0.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT, CAICT, CENC*

**Decision:** The document was **not treated**.

#### 4.1.1 UE RF requirements

**[103-e][101] R15\_R16\_Maintenance, AI 4.1.1 – Jinqiang Xing**

**R4-2210238 Email discussion summary for [103-e][101] R15\_R16\_Maintenance**

*Type: other For: Information  
 Source: Moderator (Oppo)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 4.1.1.1 FR1 (38.101-1)

**R4-2207827 Draft CR for 38.101-1: Incorrect reference of R2 IE in UL Tx Switching (R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: SoftBank Corp.*

**Abstract:**

While R16 spec looks OK, in R17 spec, a UE capability name (uplinkTxSwitching-PowerBoosting) defined in R16 WI is wrongly implemented (necessary hyphen missed).

**Decision:** The document was **not treated**.

**R4-2207866 draft CR: Update of UE capability name for Tx switching**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2207886 CR for 38.101-1-gb0: Correction for n7 A-MPR (NS\_46)**

*Type: CR For: Agreement  
 38.101-1 v16.11.0 CR-1052 rev Cat: A (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, Qualcomm Inc.*

**Decision:** The document was **not treated**.

**R4-2207887 CR for 38.101-1-h50: Correction for n7 A-MPR (NS\_46)**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1053 rev Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd, Qualcomm Inc.*

**Decision:** The document was **not treated**.

**R4-2207996 CR for 38.101-1 Rel16 Correction for n65 15, 20MHz Coexistence**

*Type: CR For: Approval  
 38.101-1 v16.11.0 CR-1054 rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207997 CR for 38.101-1 Rel17 Correction for n65 15, 20MHz Coexistence**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1055 rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207998 CR for 38.101-1 Rel16 Minor AMPR Corrections for n65 to account for SCS**

*Type: CR For: Approval  
 38.101-1 v16.11.0 CR-1056 rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207999 CR for 38.101-1 Rel17 Minor AMPR Corrections for n65 to account for SCS**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1057 rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208001 n65 AMPR and Coexistence revisited**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Addressing 15, 20MHz BW coexistence concern as well as minor AMPR corrections to account for all SCS

**Decision:** The document was **not treated**.

**R4-2208401 Discussion on 30MHz reconfiguration failure when accessing 40MHz network of n28**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208579 Update of UL MIMO transmit quality definitions**

*Type: draftCR For: Agreement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2208580 Update of UL MIMO transmit quality definitions**

*Type: draftCR For: Agreement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2208581 Update of UL MIMO transmit quality definitions**

*Type: draftCR For: Agreement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2208596 Miscelleous corrections on A-MPR requirements for Intra-band CA**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208597 Miscelleous corrections on A-MPR requirements for Intra-band CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208664 draft CR to TS38.101-1[R15] Some Corrections for Transmitter characteristics**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208665 draft CR to TS38.101-1[R16] Some Corrections for Transmitter and Receiver characteristics**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208686 Draft CR to 38.101-1: Correction on terms for NR DC Pcmax**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208687 Draft CR to 38.101-1: Correction on terms for NR DC Pcmax**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208693 Draft CR to 38.101-1: Correction on MSD value for DC\_1A-8A\_n78A**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: ZTE Corporation, CHTTL*

**Decision:** The document was **not treated**.

**R4-2208694 Draft CR to 38.101-1: Correction on MSD value for DC\_1A-8A\_n78A and DC\_1A\_n8A-n78A**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation, CHTTL*

**Decision:** The document was **not treated**.

**R4-2208695 Draft CR to 38.101-1: Correction on MSD value for DC\_1A-8A\_n78A and DC\_1A\_n8A-n78A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation, CHTTL*

**Decision:** The document was **not treated**.

**R4-2208738 Correction to Pcmax: application of p-NR-FR1 for one CG with one uplink serving cell**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to correct the configured maximum output power: the UE-specific P-max limits of the cell-group power p-NR-FR1 and p-UE-FR1 should also be applied to the PCMAX,f,c for a serving cell c and carrier frequency f to cover the case of one CG (MCG) cont

**Decision:** The document was **not treated**.

**R4-2208739 Correction to Pcmax: application of p-NR-FR1 for one CG with one uplink serving cell**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to correct the configured maximum output power: the UE-specific P-max limits of the cell-group power p-NR-FR1 and p-UE-FR1 should also be applied to the PCMAX,f,c for a serving cell c and carrier frequency f to cover the case of one CG (MCG) cont

**Decision:** The document was **not treated**.

**R4-2208740 Correction to Pcmax: application of p-NR-FR1 for one CG with one uplink serving cell**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to correct the configured maximum output power: the UE-specific P-max limits of the cell-group power p-NR-FR1 and p-UE-FR1 should also be applied to the PCMAX,f,c for a serving cell c and carrier frequency f to cover the case of one CG (MCG) cont

**Decision:** The document was **not treated**.

**R4-2208741 Correct the NS value applicability for operation in the n77 frequency range in the US**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR to correct the applicable frequency ranges for NS\_55

**Decision:** The document was **not treated**.

**R4-2208742 Correct the NS value applicability for operation in the n77 frequency range in the US**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to correct the applicable frequency ranges for NS\_55

**Decision:** The document was **not treated**.

**R4-2208743 Definition of PC1.5 and applicability of extensions of power-class parameters (RRC)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR to define PC1.5 and clarify applcability of extended power-class parameters (RRC)

**Decision:** The document was **not treated**.

**R4-2208744 Definition of PC1.5 and applicability of extensions of power-class parameters (RRC)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to define PC1.5 and clarify applcability of extended power-class parameters (RRC)

**Decision:** The document was **not treated**.

**R4-2209022 Draft CR for TS 38.101-1 Section 6.2.2**

*Type: draftCR For: (not specified)  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209023 Draft CR for TS 38.101-1 Section 6.2.2**

*Type: draftCR For: (not specified)  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209024 Draft CR for TS 38.101-1 Section 6.2.2**

*Type: draftCR For: (not specified)  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209025 Draft CR for TS 38.101-2 Section 6.2.2**

*Type: draftCR For: (not specified)  
 38.101-2 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209026 Draft CR for TS 38.101-2 Section 6.2.2**

*Type: draftCR For: (not specified)  
 38.101-2 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209027 Draft CR for TS 38.101-2 Section 6.2.2**

*Type: draftCR For: (not specified)  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209092 Draft CR to 38.101-1 R16 adding the missing additional spurious emission requirement for CA\_NC\_NS\_04**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209093 Draft CR to 38.101-1 R17 adding the missing additional spurious emission requirement for CA\_NC\_NS\_04**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209149 FR1 UL coherent MIMO**

*Type: discussion For: Approval  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209150 Draft CR to add ‘Annex G Difference of relative phase and power errors’ for FR1 UL coherent MIMO**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209151 Draft CR to add ‘Annex G Difference of relative phase and power errors’ for FR1 UL coherent MIMO**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209152 Draft CR to add ‘Annex G Difference of relative phase and power errors’ for FR1 UL coherent MIMO**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209160 Draft CR to modify MPR and AMPR definitions for almost contiguous allocations**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209161 Draft CR to modify MPR and AMPR definitions for almost contiguous allocations**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209162 Draft CR to modify MPR and AMPR definitions for almost contiguous allocations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209310 draftCR for TS 38.101-1 Rel-15: Corrections on Single Bands Coex**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209311 draftCR for TS 38.101-1 Rel-16: Corrections on Single Bands Coex**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209312 draftCR for TS 38.101-1 Rel-17: Corrections on Single Bands Coex**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209313 draftCR for TS 36.101 Rel-15: Corrections on Single Bands Coex**

*Type: draftCR For: Endorsement  
 36.101 v15.18.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209314 draftCR for TS 36.101 Rel-16: Corrections on Single Bands Coex**

*Type: draftCR For: Endorsement  
 36.101 v16.13.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209315 draftCR for TS 36.101 Rel-17: Corrections on Single Bands Coex**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209324 Draft CR for TS 36.101: P-Max definition correction for bands other than Band 41**

*Type: draftCR For: Endorsement  
 36.101 v15.18.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209325 Draft CR for TS 36.101: P-Max definition correction for bands other than Band 41**

*Type: draftCR For: Endorsement  
 36.101 v16.13.0 CR- rev Cat: (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209326 Draft CR for TS 36.101: P-Max definition correction for bands other than Band 41**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209334 Draft CR for 38.101-1 to add note 5 for band n83(R15)**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209335 Draft CR for 38.101-1 to add note 5 for band n83(R16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209336 Draft CR for 38.101-1 to add note 5 for band n83(R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209337 Draft CR for 38.101-1 to clarify the restriction of band n28 for CA\_n20-n28(R16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209338 Draft CR for 38.101-1 to clarify the restriction of band n28 for CA\_n20-n28(R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209342 Draft CR for 38.101-1 to add the missing simultaneous Rx/Tx capability for SUL band combinations (R16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209343 Draft CR for 38.101-1 to add the missing simultaneous Rx/Tx capability for SUL band combinations (R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209344 Draft CR for 38.101-1 to mainteinance NR V2X UE spec (R16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209345 Draft CR for 38.101-1 to mainteinance NR V2X UE spec (R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209350 Draft CR for 38.101-1 to add exception clause for inter-band CA REFSENS (R16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209351 Draft CR for 38.101-1 to add exception clause for inter-band CA REFSENS (R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209380 Draft CR on clarification of Tx DC location in FR1 CA (R16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209381 Draft CR on clarification of Tx DC location in FR1 CA (R17 CAT-A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209752 draft CR for TS 38.101-1: correction for DC location reporting (R16 cat-F)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209753 draft CR for TS 38.101-1: correction for DC location reporting (R17 cat-A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209782 A draft CR to clarify the 100 kHz channel raster applicability**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209783 A draft CR to clarify the 100 kHz channel raster applicability**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209784 A draft CR to clarify the 100 kHz channel raster applicability**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2210109 CR to TS 38.101-3 V16.11.0 on intra-band ULCA UL configurations**

*Type: CR For: Agreement  
 38.101-3 v16.11.0 CR-0729 rev Cat: F (Rel-16)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

Providing corrections to missing DC\_1C\_n3A MSD

**Decision:** The document was **not treated**.

**R4-2210201 Correction to out-of-band blocking ranges**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210202 Correction to out-of-band blocking ranges**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210203 Correction to out-of-band blocking ranges**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 4.1.1.2 FR2 (38.101-2)

**R4-2207671 Draft CR for TS 38.101-2: Change FR2 ACLR verification test metric**

*Type: draftCR For: Endorsement  
 38.101-2 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207672 Draft CR for TS 38.101-2: Change FR2 ACLR verification test metric**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207673 Draft CR for TS 38.101-2: Change FR2 ACLR verification test metric**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207674 EIRP-based test metric for FR2 SEM verifications**

*Type: other For: Approval  
 38.101-2 v CR- rev Cat: (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207675 Draft CR for TS 38.101-2: Change FR2 SEM verification test metric**

*Type: draftCR For: Endorsement  
 38.101-2 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207676 Draft CR for TS 38.101-2: Change FR2 SEM verification test metric**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207677 Draft CR for TS 38.101-2: Change FR2 SEM verification test metric**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207786 Correction of FR2 UE configured transmitted power**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207883 CR for 38.101-2-fh0: Correction for PC3 MPRnarrow**

*Type: CR For: Agreement  
 38.101-2 v15.17.0 CR-0453 rev Cat: F (Rel-15)  
  
 Source: Keysight Technologies UK Ltd, Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

**R4-2207884 CR for 38.101-2-gb0: Correction for PC3 MPRnarrow**

*Type: CR For: Agreement  
 38.101-2 v16.11.0 CR-0454 rev Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

**R4-2207885 CR for 38.101-2-h50: Correction for PC3 MPRnarrow**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0455 rev Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd, Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

**R4-2207911 Draft CR to TS 38.104 on clarifications of interfering signal for the OTA transmitter intermodulation requirement**

*Type: draftCR For: Endorsement  
 38.104 v15.16.0 CR- rev Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

**Abstract:**

Clarify the power shall be equally divided between the supported polarizations when the power is either 46 dBm or Prated,t,TRP.

**Decision:** The document was **not treated**.

**R4-2207912 Draft CR to TS 38.104 on clarifications of interfering signal for the OTA transmitter intermodulation requirement**

*Type: draftCR For: Endorsement  
 38.104 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

**Abstract:**

Clarify the power shall be equally divided between the supported polarizations when the power is either 46 dBm or Prated,t,TRP.

**Decision:** The document was **not treated**.

**R4-2207913 Draft CR to TS 38.104 on clarifications of interfering signal for the OTA transmitter intermodulation requirement**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

**Abstract:**

Clarify the power shall be equally divided between the supported polarizations when the power is either 46 dBm or Prated,t,TRP.

**Decision:** The document was **not treated**.

**R4-2208611 draft CR to remove the LO exception of SEM in FR2**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208612 draft CR to remove the LO exception of SEM in FR2**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208634 Draft CR to TS 38.101-2 on corrections to RF requirement applicability(R15)**

*Type: draftCR For: Approval  
 38.101-2 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208635 Draft CR to TS 38.101-2 on corrections to RF requirement applicability(R16)**

*Type: draftCR For: Approval  
 38.101-2 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208636 Draft CR to TS 38.101-2 on corrections to RF requirement applicability(R17)**

*Type: draftCR For: Approval  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208871 Draft CR for clarification on Maximum input and ACS and IBB for FR2 DL intra and inter combinations for TS 38.101-2**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: NTT DOCOMO, INC*

**Decision:** The document was **not treated**.

**R4-2208872 Draft CR for clarification on Maximum input and ACS and IBB for FR2 DL intra and inter combinations for TS 38.101-2**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC*

**Abstract:**

Rel-17 Cat A CR

**Decision:** The document was **not treated**.

**R4-2209378 Draft CR on clarification of PMPR in FR2 (R16)**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209379 Draft CR on clarification of PMPR in FR2 (R17 CAT-A)**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209383 Draft CR on clarification of Tx DC location in FR2 CA (R16)**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209402 Draft CR on clarification of Tx DC location in FR2 CA (R17 CAT-A)**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209626 Draft CR to TS 38.101-2 on UE multi-band relaxation factors for PC3**

*Type: draftCR For: Approval  
 38.101-2 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 4.1.1.3 Requirements for 38.101-3

**R4-2207824 Draft CR for 38.101-3: Missing definitions of PEMAX\_NE-DC in Pcmax formulae (R15)**

*Type: draftCR For: Endorsement  
 38.101-3 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: SoftBank Corp.*

**Abstract:**

In configured output power section for Inter-band NE-DC, a term PEMAX, NE-DC is not defined.

**Decision:** The document was **not treated**.

**R4-2207825 Draft CR for 38.101-3: Missing definitions of PEMAX\_NE-DC in Pcmax formulae (R16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: SoftBank Corp.*

**Abstract:**

Mirror CR (but some minor corrections have already been made in R16

**Decision:** The document was **not treated**.

**R4-2207826 Draft CR for 38.101-3: Missing definitions of PEMAX\_NE-DC in Pcmax formulae (R17)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: SoftBank Corp.*

**Abstract:**

Mirror CR (but some minor corrections have already been made in R17).

**Decision:** The document was **not treated**.

**R4-2208782 Discussion on intra-band EN-DC combination**

*Type: discussion For: Approval  
 Source: Google Inc., Comcast, Federated Wireless, CableLabs*

**Decision:** The document was **not treated**.

**R4-2208783 Draft CR for 38.101-3 Rel-16 intra-band contiguous EN-DC band combination**

*Type: draftCR For: Agreement  
 38.101-3 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Google Inc., Comcast, Federated Wireless, CableLabs*

**Decision:** The document was **not treated**.

**R4-2208784 Draft CR for 38.101-3 Rel-17 intra-band contiguous EN-DC band combination**

*Type: draftCR For: Agreement  
 38.101-3 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Google Inc., Comcast, Federated Wireless, CableLabs*

**Decision:** The document was **not treated**.

**R4-2208785 Draft CR for 38.101-3 Rel-16 intra-band non-contiguous EN-DC band combination**

*Type: draftCR For: Agreement  
 38.101-3 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Google Inc., Comcast, Federated Wireless, CableLabs*

**Decision:** The document was **not treated**.

**R4-2208786 Draft CR for 38.101-3 Rel-17 intra-band non-contiguous EN-DC band combination**

*Type: draftCR For: Agreement  
 38.101-3 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Google Inc., Comcast, Federated Wireless, CableLabs*

**Decision:** The document was **not treated**.

**R4-2208855 Discussion on intrabandENDC-Support**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208856 Draft CR for 38.101-3 Rel-16 to correct band combination for intra-band ENDC**

*Type: draftCR For: Endorsement  
 38.101-3 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208857 Draft CR for 38.101-3 Rel-17 to correct band combination for intra-band ENDC**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208868 Draft CR for correction on missing band configuration in MSD table for IM**

*Type: draftCR For: Endorsement  
 38.101-3 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: NTT DOCOMO, INC*

**Decision:** The document was **not treated**.

**R4-2208869 Draft CR for correction on missing band configuration in MSD table for IM**

*Type: draftCR For: Endorsement  
 38.101-3 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: NTT DOCOMO, INC*

**Abstract:**

Rel-16 Cat A CR

**Decision:** The document was **not treated**.

**R4-2208870 Draft CR for correction on missing band configuration in MSD table for IM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC*

**Abstract:**

Rel-17 Cat A CR

**Decision:** The document was **not treated**.

**R4-2209271 Draft CR on Pemax clarification in 38.101-3 (R15)**

*Type: draftCR For: Endorsement  
 38.101-3 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209328 Draft CR on Pemax clarification in 38.101-3 (R16 CAT-A)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209333 Draft CR on Pemax clarification in 38.101-3 (R17 CAT-A)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209339 Draft CR for 38.101-3 to clarify the restriction of band n28 for DC\_20\_n28(R15)**

*Type: draftCR For: Endorsement  
 38.101-3 v15.17.0 CR- rev Cat: (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209340 Draft CR for 38.101-3 to clarify the restriction of band n28 for DC\_20\_n28(R16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209341 Draft CR for 38.101-3 to clarify the restriction of band n28 for DC\_20\_n28(R17)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209352 Draft CR for 38.101-3 to add DC\_3C-7A-8A\_n1A due to missing implementation (R16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.11.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon, DT*

**Decision:** The document was **not treated**.

**R4-2209353 Draft CR for 38.101-3 to add DC\_3C-7A-8A\_n1A due to missing implementation (R17)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, DT*

**Decision:** The document was **not treated**.

**R4-2209627 Draft CR to TS 38.307 on NR intra-band CA bandwidth class within FR1 (Rel-16)**

*Type: draftCR For: Approval  
 38.307 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209628 Draft CR to TS 38.307 on NR intra-band CA bandwidth class within FR1 (Rel-17)**

*Type: draftCR For: Approval  
 38.307 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209629 Draft CR to TS 38.307 on requirements for NR UE power class for FR1 (Rel-16)**

*Type: draftCR For: Approval  
 38.307 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209630 Draft CR to TS 38.307 on requirements for NR UE power class for FR1 (Rel-17)**

*Type: draftCR For: Approval  
 38.307 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209925 Correction of DC\_3C\_n7A-n78(2A)**

*Type: draftCR For: Approval  
 38.101-3 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

#### 4.1.2 BS RF requirements

##### 4.1.2.1 General

##### 4.1.2.2 TX/RX requirements (38.104)

##### 4.1.2.3 MSR and eAAS specifications

#### 4.1.3 BS conformance testing

##### 4.1.3.1 General

##### 4.1.3.2 Conducted conformance testing (38.141-1)

##### 4.1.3.3 Radiated conformance testing (38.141-2)

##### 4.1.3.4 OAT BS testing

#### 4.1.4 UE/BS EMC requirements

#### 4.1.5 RRM requirements

**[103-e][201] Maintenance\_R15\_R16\_RRM, AI 4.1.5 – Li Zhang**

**R4-221273 Email discussion summary for [103-e][201] Maintenance\_R15\_R16\_RRM**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2208828 Reply LS on BWP operation without bandwidth restriction**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

##### 4.1.5.1 RRM core requirements (38.133/36.133)

**R4-2207787 CR for eMIMO requirements maintenance (Rel-16)**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207788 CR for eMIMO requirements maintenance (Rel-17)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207875 Maintenance CR for RRM requirements on 38.133 R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207876 Maintenance CR for RRM requirements on 38.133 R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207877 Maintenance CR for V2X Te requirements on 38.133 R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207878 Maintenance CR for V2X Te requirements on 38.133 R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207941 draft Cat-F CR (R15) to SCell Activation Core**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207942 draft Cat-A CR (R16) to SCell Activation Core**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207943 draft Cat-A CR (R17) to SCell Activation Core**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207944 draft Cat-F CR (R16) to SCell Activation Core**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207945 draft Cat-A CR (R17) to SCell Activation Core**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207946 draft Cat-F CR (R16) to SCell Activation Core NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207947 draft Cat-A CR (R17) to SCell Activation Core NR-U**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208829 Draft CR to TS 38.133 Correction to Rel-16 IDLE CA&DC measurements requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208830 Draft CR to TS 38.133 Correction to Rel-17 IDLE CA&DC measurements requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208831 Draft CR to TS 36.133 Correction to IDLE DC measurements requirements\_R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208832 Draft CR to TS 36.133 Correction to IDLE DC measurements requirements\_R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208836 Draft CR to 38.133 correction to NR positioning measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208837 Draft CR to 38.133 correction to NR positioning measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208848 CR to TS38.133 for the editorial correction on L1-SINR scheduling restriction**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2341 rev Cat: F (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208849 CR to TS38.133 for the editorial correction on L1-SINR scheduling restriction**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2342 rev Cat: A (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208909 Correction to NR SCell activation interruption requirements 38133\_r15**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208910 Correction to NR SCell activation interruption requirements 38133\_r16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208911 Correction to NR SCell activation interruption requirements 38133\_r17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208912 Correction to NR SCell activation interruption requirements 36133\_r15**

*Type: draftCR For: Endorsement  
 36.133 v15.16.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208913 Correction to NR SCell activation interruption requirements 36133\_r16**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208914 Correction to NR SCell activation interruption requirements 36133\_r17**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208915 Correction to paging interruption during reselection requirements\_r15**

*Type: draftCR For: Endorsement  
 36.133 v15.16.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208916 Correction to paging interruption during reselection requirements\_r16**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Abstract:**

additional changes are captured in CR due to difference between Rel-15 and Rel-16 Specs

**Decision:** The document was **not treated**.

**R4-2208917 Correction to paging interruption during reselection requirements\_r17**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208922 Correction to HST inter-RAT NR cell reselection requirements\_r16**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208923 Correction to HST inter-RAT NR cell reselection requirements\_r17**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208924 Correction to HST intra-NR cell-reselection requirements\_r16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208925 Correction to HST intra-NR cell-reselection requirements\_r17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208927 Draft CR on requirements maintenance for NR-U 36133 R16**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208928 Draft CR on requirements maintenance for NR-U 36133 R17**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208929 Draft CR on requirements maintenance for NR-U 38133 R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208930 Draft CR on requirements maintenance for NR-U 38133 R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208931 Draft CR on maintenance for IAB R16**

*Type: draftCR For: Endorsement  
 38.174 v16.6.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208932 Draft CR on maintenance for IAB R17**

*Type: draftCR For: Endorsement  
 38.174 v17.0.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208933 Draft CR on adding NR bands groups for NB-IoT R16**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208934 Draft CR on adding NR bands groups for NB-IoT R17**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208956 Clarification on asynchronous DAPS handover R16**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208957 Clarification on asynchronous DAPS handover R17**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208987 Discussion on maintaining PL-RS switching delay requirements in R16**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208988 DraftCR on maintaining PL-RS switching delay requirements R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208989 DraftCR on maintaining PL-RS switching delay requirements R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209186 CR on CSSF outside MG R15**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209187 CR on CSSF outside MG R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209188 CR on CSSF outside MG R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209189 CR on beam level EMR requirements 36133 R16**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209190 CR on beam level EMR requirements 36133 R17**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209191 CR on beam level EMR requirements 38133 R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209192 CR on beam level EMR requirements 38133 R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209193 Discussion on remaining issues in PRS measurement period**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209194 CR on PRS meausurement period R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209195 CR on PRS meausurement period R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209199 CR to multiple SCell activation requirements R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209200 CR to multiple SCell activation requirements R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209201 CR on CGI reading requirements R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209202 CR on CGI reading requirements R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

##### 4.1.5.2 RRM performance requirements (38.133/36.133)

**R4-2207646 Draft CR to FR1 DCI-based BWP switch TCs**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Corporation*

**Abstract:**

Update Table A.4.5.6.1.1.1-3/A.6.5.6.1.2.1-3:

- Config 1 Active UL BWP-2 Configuration: ULBWP.1.3 -> N/A

**Decision:** The document was **not treated**.

**R4-2207647 Draft CR to FR1 DCI-based BWP switch TCs**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Anritsu Corporation*

**Abstract:**

Update Table A.4.5.6.1.1.1-3/A.6.5.6.1.2.1-3:

- Config 1 Active UL BWP-2 Configuration: ULBWP.1.3 -> N/A

**Decision:** The document was **not treated**.

**R4-2207648 Draft CR to FR1 DCI-based BWP switch TCs and FR2 CSI-RS based RLM**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Anritsu Corporation*

**Abstract:**

In addition to changes for R4-2207646/7647 (Rel-15/16), corrections of table structure are added to Table A.5.5.1.5.1-3 and A.5.5.1.6.1-3.

**Decision:** The document was **not treated**.

**R4-2207649 Draft CR to Cell reselection to FR1 intra-frequency NR case**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Anritsu Corporation*

**Abstract:**

Change the test time value(T2,T3) to match the value described in the A.6.1.1.7.3 Test Requirements.

**Decision:** The document was **not treated**.

**R4-2207650 Draft CR to Cell reselection to FR1 intra-frequency NR case**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Corporation*

**Abstract:**

Change the test time value(T2,T3) to match the value described in the A.6.1.1.7.3 Test Requirements.

**Decision:** The document was **not treated**.

**R4-2207747 On RRM performance maintenance**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207748 draftCR on applicabiltiy for test Cases involving E-UTRA/FR1 and FR2 carriers (R15)**

*Type: draftCR For: (not specified)  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207749 draftCR on applicabiltiy for test Cases involving E-UTRA/FR1 and FR2 carriers (R16)**

*Type: draftCR For: (not specified)  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207750 draftCR on applicabiltiy for test Cases involving E-UTRA/FR1 and FR2 carriers (R17)**

*Type: draftCR For: (not specified)  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207789 CR for Spatial relation info switch testcase maintenance (Rel-16)**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207790 CR for Spatial relation info switch testcase maintenance (Rel-17)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207948 draft Cat-F CR (R15) to SCell Activation Test Cases**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207949 draft Cat-A CR (R16) to SCell Activation Test Cases**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207950 draft Cat-A CR (R17) to SCell Activation Test Cases**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207951 draft Cat-F CR (R16) to SCell Activation Test Cases and SRS configuration**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207952 draft Cat-A CR (R17) to SCell Activation Test Cases and SRS configuration**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207953 draft Cat-F CR (R16) to SCell Activation Test Cases NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207954 draft Cat-A CR (R17) to SCell Activation Test Cases NR-U**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208024 Remaining issues in NR positioning performance requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208162 Draft CR on HST FR1 L1-RSRP test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208163 Draft CR on HST FR1 L1-RSRP test cases**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208164 Draft CR on test case for cell reselection for power saving**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208165 Draft CR on test case for cell reselection for power saving**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208166 Draft CR to add missing SMTC pattern**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208167 Draft CR on radio link monitoring test cases in FR1**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208168 Draft CR on radio link monitoring test cases in FR1**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208169 Draft CR on radio link monitoring test cases in FR1**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208202 Draft CR on R16 NR positioning test cases of general configurations and measurement delay requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208203 Draft CR on R16 NR positioning test cases of general configurations and measurement delay requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208204 Draft CR on R16 NR positioning test case of accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208205 Draft CR on R16 NR positioning test case of accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208341 CR to maintain test case of PScell addition and release delay (A4.5.7)\_R15**

*Type: CR For: Agreement  
 38.133 v15.17.0 CR-2311 rev Cat: F (Rel-15)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208342 CR to maintain test case of PScell addition and release delay (A4.5.7)\_R16**

*Type: CR For: Agreement  
 38.133 v16.11.0 CR-2312 rev Cat: A (Rel-16)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208343 CR to maintain test case of PScell addition and release delay (A4.5.7)\_R17**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2313 rev Cat: A (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208344 CR to maintain inter-RAT measurements subject to CCA in TS 36.133(R16)**

*Type: CR For: Agreement  
 36.133 v16.13.0 CR-7151 rev Cat: F (Rel-16)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208345 CR to maintain inter-RAT measurements subject to CCA in TS 36.133(R17)**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7152 rev Cat: A (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208469 Discussion on FR2 inter-frequency relative RSRP accuracy**

*Type: discussion For: Discussion  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2208833 Remaining issues on measurement accuracy requirements for Rel-16 NR positioning**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208834 Draft CR to 38.133 correction to NR positioning accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208835 Draft CR to 38.133 correction to NR positioning accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208879 FR2 Inter-frequency Relative SS-RSRP accuracy**

*Type: discussion For: Discussion  
 Source: Anritsu Corporation*

**Abstract:**

We show our current views on the margins for FR2 Inter-frequency Relative SS-RSRP accuracy test case.

**Decision:** The document was **not treated**.

**R4-2208906 Correction to cell reselection test case\_r15**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208907 Correction to cell reselection test case\_r16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208908 Correction to cell reselection test case\_r17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208918 Correction to SRS reference configuration\_r16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208919 Correction to SRS reference configuration\_r17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208920 Correction to eMIMO BFD test cases\_r16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208921 Correction to eMIMO BFD test cases\_r17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208926 Discussion on issues on Rel-15 test cases**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208985 Update to UL switching test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208986 Update to UL switching test cases**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208990 DraftCR on maintaining L1-SINR measurement test cases R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208991 DraftCR on maintaining L1-SINR measurement test cases R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209076 draft CR: Correction of NR-U RRM test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This draft CR removes the [] from NR-U RRM beam management test cases.

**Decision:** The document was **not treated**.

**R4-2209077 draft CR: Correction of NR-U RRM test cases**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This draft CR removes the [] from NR-U RRM beam management test cases.

**Decision:** The document was **not treated**.

**R4-2209078 draft CR: Correction of PRACH configuration parameter for inter-RAT test**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This draft CR corrects E-UTRAN PRACH configuration index configuration parameters for inter-RAT test.

**Decision:** The document was **not treated**.

**R4-2209079 draft CR: Correction of PRACH configuration parameter for inter-RAT test**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This draft CR corrects E-UTRAN PRACH configuration index configuration parameters for inter-RAT test.

**Decision:** The document was **not treated**.

**R4-2209196 Discussion on accuracy requirements for positioning measurement**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209197 CR on accuracy requirements for positioning measurement R16**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209198 CR on accuracy requirements for positioning measurement R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209609 Draft CR to TS 38.133: Corrections to intra-frequency event triggered test cases (Rel 15)**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2209610 Draft CR to TS 38.133: Corrections to intra-frequency event triggered test cases (Rel 16)**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2209611 Draft CR to TS 38.133: Corrections to intra-frequency event triggered test cases (Rel 17)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2209612 Draft CR to TS 38.133: Corrections to beam failure and link recovery test cases (Rel 15)**

*Type: draftCR For: Endorsement  
 38.133 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2209613 Draft CR to TS 38.133: Corrections to beam failure and link recovery test cases (Rel 16)**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2209614 Draft CR to TS 38.133: Corrections to beam failure and link recovery test cases (Rel 17)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2210084 CR: Corrections on NR V2X Resource Selection Test**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2210085 (mirror R17)CR: Corrections on NR V2X Resource Selection Test**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2210086 CR: Corrections on LTE V2X Resource Selection Test**

*Type: draftCR For: Endorsement  
 36.133 v14.21.0 CR- rev Cat: F (Rel-14)  
  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2210087 (mirror R15)Corrections on LTE V2X Resource Selection Test**

*Type: draftCR For: Endorsement  
 36.133 v15.16.0 CR- rev Cat: F (Rel-15)  
  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2210088 (mirror R16)Corrections on LTE V2X Resource Selection Test**

*Type: draftCR For: Endorsement  
 36.133 v16.13.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2210089 (mirror R17)Corrections on LTE V2X Resource Selection Test**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2210091 Draft CR 38.133 on DAPS handover test case**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2210107 Draft CR 38.133 on DAPS handover test case**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2210181 On UE positioning performance requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On open issues related to accuracy requirements for UE positioning measurements (PRS-RSRP, RSTD and UE Rx-Tx time difference)

**Decision:** The document was **not treated**.

**R4-2210182 Updates to accuracy requirements for UE positioning measurements in TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction and update to UE Rx-Tx time difference accuracy requirements.

**Decision:** The document was **not treated**.

**R4-2210183 Updates to accuracy requirements for UE positioning measurements in TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction and update to UE Rx-Tx time difference accuracy requirements.

**Decision:** The document was **not treated**.

**R4-2210184 Correction to conditions for NR PRS-based measurements in TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction and update Es/Iot for PRS-RSRP and UE Rx-Tx measurements in annex B

**Decision:** The document was **not treated**.

**R4-2210185 Correction to conditions for NR PRS-based measurements in TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction and update Es/Iot for PRS-RSRP and UE Rx-Tx measurements in annex B

**Decision:** The document was **not treated**.

**R4-2210225 DraftCR - Correction of margins for UE Rx-Tx accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 4.1.6 Demodulation and CSI requirements (38.101-4/38.104)

##### 4.1.6.1 UE demodulation requirements

##### 4.1.6.2 CSI requirements

##### 4.1.6.3 BS demodulation requirements

#### 4.1.7 NR MIMO OTA test methods (38.827)

## 5 Rel-17 maintenance for LTE and NR

### 5.1 Rel-17 spectrum related WIs

#### 5.1.1 Introduction of lower 6GHz NR unlicensed operation for Europe

##### 5.1.1.1 UE RF requirements

##### 5.1.1.2 BS RF requirements

#### 5.1.2 Introduction of operation in full unlicensed band 5925-7125MHz for NR

**[103-e][103] NR\_6GHz\_unlic\_full\_maintenance, AI 5.1.2 – Alexander Sayenko**

**R4-2210239 Email discussion summary for [103-e][103] NR\_6GHz\_unlic\_full\_maintenance**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 5.1.2.1 UE RF requirements

**R4-2208534 CR on NR-U A-MPR for PC5 VLP in South Korea**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1067 rev Cat: F (Rel-17)  
  
 Source: LG Electronics*

**Abstract:**

It is CR to introduce NR-U A-MPR for PC5 VLP in South Korea.

**Decision:** The document was **not treated**.

##### 5.1.2.2 BS RF requirements

#### 5.1.3 Introduction of 1900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

**R4-2208642 Revised TR 38.852 version 0.3.0**

*Type: draft TR For: Agreement  
 38.852 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Union Inter. Chemins de Fer*

**Decision:** The document was **not treated**.

**R4-2208902 TP to TR 38.852 - Clarification BS output power**

*Type: pCR For: Approval  
 38.852 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, UIC*

**Abstract:**

This contribution is a TP to TR 38.852 clarifying BS output power level for 5MHz channel BW

**Decision:** The document was **not treated**.

#### 5.1.4 DC of x bands (x=2,3,4) LTE inter-band CA (xDL/1UL) and 1 NR FR1 band (1DL/1UL) and 1 NR FR2 band (1DL/1UL)

#### 5.1.5 DC of 5 bands LTE inter-band CA (5DL/1L) and 1 NR band (1DL/1UL)

**R4-2208433 Summary on new request to Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID revised For: Information  
 Source: Samsung*

**Abstract:**

No extention on this Rel-17 WI in RAN#95 since no remaining open combs. However, there is new request received for Rel-18 belong to this WI before May meeting. Hence we make a summary on the request to be captured in Rel-18 new basket WID. Since this WI a

**Decision:** The document was **withdrawn**.

#### 5.1.6 Downlink interruption for band combinations to conduct dynamic Tx Switching

#### 5.1.7 Addition of MSD (Maximum Sensitivity Degradation) for inter-band EN-DC combinations due to added channel bandwidths

#### 5.1.8 High power UE (power class 2) for NR FDD band

**[103-e][104] NR\_PC2\_UE\_FDD\_maintenance, AI 5.1.8 – Basaier Jialade**

**R4-2210240 Email discussion summary for [103-e][104] NR\_PC2\_UE\_FDD\_maintenance**

*Type: other For: Information  
 Source: Moderator (China Unicom)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 5.1.8.1 UE RF requirements

**R4-2208685 CR to TS38.101-1: Corrections on MSD for PC2 FDD band**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1074 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation,China Unicom*

**Decision:** The document was **not treated**.

**R4-2209180 CR to TS38101-1 Update of PC2 A-MPR for NS\_05**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1088 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209181 Consideration on practical PA implementation for NS\_05 A-MPR**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 5.1.9 4Rx support for NR band n8

#### 5.1.10 Upper 700MHz A Block new E-UTRA band in US

**R4-2208646 CR to TS 38.101-1: Protection for band 103 from newly introduced CA combinations**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1070 rev Cat: F (Rel-17)  
  
 Source: Puloli*

**Abstract:**

To add protection for band 103 from newly introduced CA combinations, i.e., CA\_n41-n70 and CA\_n46-n48

**Decision:** The document was **not treated**.

### 5.2 Rel-17 non-spectrum related WIs

#### 5.2.1 UE RF requirements for Transparent Tx Diversity (TxD) for NR

**[103-e][105] NR\_TxD\_maintenance, AI 5.2.1 – Ville Vintola**

**R4-2210241 Email discussion summary for [103-e][105] NR\_TxD\_maintenance**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 5.2.1.1 General

**R4-2208599 Revision of General part of MPR of 38.837**

*Type: CR For: Agreement  
 38.837 v17.0.0 CR-0003 rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208600 Big CR for supplementation of 38.837**

*Type: CR For: Agreement  
 38.837 v17.0.0 CR-0001 rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **withdrawn**.

##### 5.2.1.2 UE RF requirements

**R4-2207662 Discussion on adding PC1.5 = TxD text**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207991 Addition of MPR evaluation part to 38.837**

*Type: CR For: Agreement  
 38.837 v17.0.0 CR-0002 rev Cat: F (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

Addition of MPR evaluation sections after 4.4.1.2:

4.4.2 MPR evaluation for TxD

4.4.2.1 Architecture and Reverse IMD impact

4.4.2.2 Baseline architecture for different power classes

4.4.2.3 PC2 2Tx MPR measurement results and specification

4.4.2.4 1Tx fal

**Decision:** The document was **not treated**.

**R4-2208577 Update of TxD inband emissions**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1069 rev Cat: F (Rel-17)  
  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2208745 Single-port fallback requirement for full-power UL-MIMO modes**

*Type: CR For: Agreement  
 38.837 v17.0.0 CR-0004 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

In this CR we provide a background to the fallback requirements for full-power UL-MIMO modes 0 and 2 (the latter w/o full-power TPMI)

**Decision:** The document was **not treated**.

**R4-2208842 CR to TS38.101-1 for the corrections on Tx Diversity Requirement**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1079 rev Cat: F (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2209034 Draft CR on SRS IL for NR TxD**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209308 Discussion on TxD signaling and power class fallback**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209309 CR on new modifiedMPR-Behavior for power class fallback with Tx Diversity**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1091 rev Cat: B (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209422 CR to TR38.837 for TxD SRS IL**

*Type: CR For: Agreement  
 38.837 v17.0.0 CR-0005 rev Cat: F (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

##### 5.2.1.3 Release independency

#### 5.2.2 Support for Multi-SIM devices for LTE/NR

**[103-e][203] LTE\_NR\_MUSIM\_maintenance, AI 5.2.2 – Xusheng Wei**

**R4-221275 Email discussion summary for [103-e][203] LTE\_NR\_MUSIM\_maintenance**

*Type: other For: Information  
 Source: Moderator (vivo)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 5.2.2.1 RRM core requirements

**R4-2209423 Clarification on remaining issues for Rel-17 MUSIM**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209447 New gap pattern for MUSIM**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the new MGPs for MUSIM

**Decision:** The document was **not treated**.

**R4-2209448 CR on New gap pattern for MUSIM**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2375 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR updates the new MGPs for MUSIM

**Decision:** The document was **not treated**.

### 5.3 Other WIs and Rel-17 TEI

#### 5.3.1 BS RF requirements

#### 5.3.2 UE RF requirements

**[103-e][106] R17\_Maintenance, AI 5.3.2, 5.1.4, 5.1.5, 5.1.6, 5.1.9, 5.1.10 – Dominique Evereare**

**R4-2210242 Email discussion summary for [103-e][106] R17\_Maintenance**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207665 CR 36101-h50 adding fallbacks**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5860 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Abstract:**

CR adding missing fallbacks and doing bug fixing

**Decision:** The document was **not treated**.

**R4-2207666 CR 38101-1-h50 adding FR1 NR-CA fallbacks**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1050 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Abstract:**

CR adding missing fallbacks and doing bug fixing

**Decision:** The document was **not treated**.

**R4-2207667 CR 38101-2-h50 adding fallbacks**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0452 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Abstract:**

CR adding missing fallbacks and doing bug fixing

**Decision:** The document was **not treated**.

**R4-2207668 CR 38101-3-h50 adding FR1+FR2 CA fallbacks**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0706 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Abstract:**

CR adding missing fallbacks and doing bug fixing

**Decision:** The document was **not treated**.

**R4-2207669 CR 38101-3-h50 adding FR1 EN-DC fallbacks**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0707 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Abstract:**

CR adding missing fallbacks and doing bug fixing

**Decision:** The document was **not treated**.

**R4-2207670 CR 38101-3-h50 adding EN-DC or NR-DC with FR2 fallbacks**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0708 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Abstract:**

CR adding missing fallbacks and doing bug fixing

**Decision:** The document was **not treated**.

**R4-2208290 Draft CR for 36.101 Correction to Bands for NB-IoT in the USA**

*Type: draftCR For: (not specified)  
 36.101 v14.22.0 CR- rev Cat: F (Rel-14)  
  
 Source: Dish Network*

**Decision:** The document was **not treated**.

**R4-2208291 Draft CR for 36.101 Correction to Bands for NB-IoT in the USA**

*Type: draftCR For: (not specified)  
 36.101 v15.18.0 CR- rev Cat: A (Rel-15)  
  
 Source: Dish Network*

**Decision:** The document was **not treated**.

**R4-2208292 Draft CR for 36.101 Correction to Bands for NB-IoT in the USA**

*Type: draftCR For: (not specified)  
 36.101 v16.13.0 CR- rev Cat: A (Rel-16)  
  
 Source: Dish Network*

**Decision:** The document was **not treated**.

**R4-2208293 Draft CR for 36.101 Correction to Bands for NB-IoT in the USA**

*Type: draftCR For: (not specified)  
 36.101 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Dish Network*

**Decision:** The document was **not treated**.

**R4-2208404 Draft CR for 38.101-1- update signalling of maximum duty cycle for FR1 PC1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208405 CR for 36.101- add BCS 1 for band8 intra-band contiguous CA**

*Type: CR For: Approval  
 36.101 v17.5.0 CR-5861 rev Cat: B (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208666 CR to TS38.101-1[R17] Some Corrections for Transmitter characteristics**

*Type: CR For: Endorsement  
 38.101-1 v17.5.0 CR-1071 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208678 CR to TS38.101-1: Some corrections for the tables due to introduction of 35MHz\_45MHz CBW**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1072 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation, Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

**R4-2208746 Correction to additional spurious emission requirements for n48**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1077 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to correct the additional spurious emission requirement for n48 (30 MHz bandwidth)

**Decision:** The document was **not treated**.

**R4-2209033 DraftCR for TS 38.101-1 on correction on IL for SRS antenna switching**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **withdrawn**.

**R4-2209037 Draft CR for TS 38.307 on Annex B**

*Type: draftCR For: Endorsement  
 38.307 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209054 DraftCR for TS 38.101-1 on correction on IL for SRS antenna switching**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209109 LTE CA corrections R17**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5867 rev Cat: F (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209316 CR for TS 38.101-3 Rel-17: Corrections on band combinations for UE co-existence**

*Type: CR For: Approval  
 38.101-3 v17.5.0 CR-0722 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209317 CR for TS 38.101-1 Rel-17: Corrections on band combinations for UE co-existence**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1092 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209318 CR for TS 36.101 Rel-17: Corrections on band combinations for UE co-existence**

*Type: CR For: Approval  
 36.101 v17.5.0 CR-5869 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209346 Draft CR for 36.101 to clarify the definition about con-current operation (R14)**

*Type: draftCR For: Endorsement  
 36.101 v14.22.0 CR- rev Cat: (Rel-14)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209347 Draft CR for 36.101 to clarify the definition about con-current operation (R15)**

*Type: draftCR For: Endorsement  
 36.101 v15.18.0 CR- rev Cat: (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209348 Draft CR for 36.101 to clarify the definition about con-current operation (R16)**

*Type: draftCR For: Endorsement  
 36.101 v16.13.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209349 Draft CR for 36.101 to clarify the definition about con-current operation (R17)**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209354 CR for 38.101-1 to change table 7.3.2-1 to clause 7.3.2 for general REFSENS (R17)**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1093 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2210217 Correction of MPE Duty Cycle Parameter Name**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1114 rev Cat: F (Rel-17)  
  
 Source: Lenovo*

**Decision:** The document was **not treated**.

**R4-2210227 CR to R16 TS38.101-1 on transient period capability**

*Type: CR For: Agreement  
 38.101-1 v16.11.0 CR-1115 rev Cat: F (Rel-16)  
  
 Source: Skyworks Solutions Inc., Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210229 CR to R17 TS38.101-1 on transient period capability**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1116 rev Cat: A (Rel-17)  
  
 Source: Skyworks Solutions Inc., Qualcomm Incorporated.*

**Decision:** The document was **not treated**.

#### 5.3.3 RRM requirements

**[103-e][202] Maintenance\_R17\_RRM, AI 5.3.3 – Yang Tang**

**R4-221274 Email discussion summary [103-e][202] Maintenance\_R17\_RRM**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207641 Correction of Configuration Parameters for Test 1 in Test Case A.7.1.11**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7148 rev Cat: F (Rel-17)  
  
 Source: STMicroelectronics*

**Abstract:**

In Test case A.7.1.11 Test 1, the UE is configured with SRS transmission with periodicity of 2ms. Since the UE is operating in a half-duplex mode, class B, the UE requires an unoccupied subframe between receive and transmit. A continuous uplink activity (

**Decision:** The document was **not treated**.

**R4-2209242 Discussion on mapping table for NR TADV**

*Type: LS out For: Approval  
 to RAN1, RAN3  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209243 CR on mapping table for NR TADV [NRTADV]**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2370 rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209453 Remaining issue for Idle mode**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the remaining issues for Idle mode

**Decision:** The document was **not treated**.

**R4-2209454 CR on cell reselection in Idle mode**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2377 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This draft CR captures cell reselection in Idle mode

**Decision:** The document was **not treated**.

**R4-2209455 CR on cell selection in Idle mode for NR-U**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2378 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This draft CR updates the timer to initiate the cell selection in NR-U Idle mode

**Decision:** The document was **not treated**.

**R4-2210122 Discussion on number of carriers for NR SA in Rel-17**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss number of carrier support for NR SA in rel-17

**Decision:** The document was **not treated**.

**R4-2210123 Draft CR on number of carriers to support for NR SA in Rel-17**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2391 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

In this contribution we provide CR to update number of carrier support for NR SA in rel-17

**Decision:** The document was **not treated**.

**R4-2210186 On timing advance (TADV) measurement report mapping**

*Type: LS out For: Approval  
 to RAN3, cc RAN1, RAN2  
 Source: Ericsson*

**Abstract:**

The paper analyzes the timing advance (TADV) measurement report mapping for timing advance (TADV) measurement specified in Clause 5.2.7 of TS 38.215 as TEI17 as part of E-CID measurement. LS needs to be sent to RAN3 to define the NRPPa signaling between g

**Decision:** The document was **not treated**.

**R4-2210187 Timing advance (TADV) measurement report mapping in TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2403 rev Cat: B (Rel-17)  
  
 Source: Ericsson, NTT DOCOMO*

**Abstract:**

To define timing advance (TADV) measurement report mapping for timing advance (TADV) measurement specified by RAN1 in Clause 5.2.7 of TS 38.215 as TEI17.

**Decision:** The document was **not treated**.

#### 5.3.4 Demodulation and CSI requirements

#### 5.3.5 Rel-17 TEI

##### 5.3.5.1 Incorrect PMI reporting

##### 5.3.5.2 Canada band n77

**R4-2208747 Extension of operation in the n77 frequency range in Canada**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1078 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to introduce a capability and corresponding NS value for extended n77 operation in Canada

**Decision:** The document was **not treated**.

**R4-2208867 Discussion on band n77 issue**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209108 n77 Canada**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1084 rev Cat: B (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209638 Extended frequency range 3650-3980 MHz in Canada band n77**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1106 rev Cat: B (Rel-17)  
  
 Source: Mediatek India Technology Pvt.*

**Decision:** The document was **not treated**.

## 6 LS response to ITU

### 6.1 Generic unwanted emission (IMT-2020)

### 6.2 Test methods for OTA total radiated power

## 7 Rel-17 feature list

**[103-e][136] R17\_feature\_list, AI 7 – Xiaoran Zhang**

**R4-2210271 Email discussion summary for [103-e][136] R17\_feature\_list**

*Type: other For: Information  
 Source: Moderator (CMCC)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207785 Further discussion on R17 feature list**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207955 A new Rel-17 per-FR MG capability based on Per BC**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208051 Discussion on Rel-17 RAN4 UE feature list**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208304 Regarding UE feature and capability for 1024QAM**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208768 Discussion on Rel-17 feature list**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209258 On Rel.17 RAN4 Features**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2209375 R17 Per band Per BC power class capability**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2210200 Rel-17 feature group for increasing MOP of CA and DC**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

## 8 Rel-17 spectrum related WIs for NR

**[103-e][204] Spectrum\_RRM, AI 8, 10, 10.6, 8.2.3 – Muhammad Kazmi**

**R4-221276 Email discussion summary for [103-e][204] Spectrum\_RRM**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

### 8.1 Introduction of 6GHz NR licensed bands

**[103-e][114] NR\_6 GHz\_licensed, AI 8.1 – Liehai Liu**

**R4-2210249 Email discussion summary for [103-e][114] NR\_6 GHz\_licensed**

*Type: other For: Information  
 Source: Moderator (Huawei, HiSilicon)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.1.1 General

#### 8.1.2 System parameters

**R4-2208196 System parameters for 6GHz licensed band**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208407 Discussion on system parameters for 6GHz licensed spectrum**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208547 System parameters for 6GHz NR licensed band**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

**R4-2208655 System Parameters of n104**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208860 Discussion the remaining issues on system parameters for 6G license band**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208890 Licensed 6GHz: General aspects - system parameters**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses the remaining system parameters issues for badn n104

**Decision:** The document was **not treated**.

**R4-2209579 Discussion on system parameters for 6425-7125MHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2210195 System parameters for the 6 GHz licensed band**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 8.1.3 UE RF requirements

**R4-2207664 On UE Rx requirements for the licensed operation in the upper 6GHz frequency range**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208197 UE RF requirements for 6GHz licensed band**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208340 Discussion on UE REFSENS for 6GHz licensed band**

*Type: discussion For: Approval  
 Source: Mediatek India Technology Pvt.*

**Decision:** The document was **not treated**.

**R4-2208408 Discussion on UE requirements for 6GHz licensed spectrum**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208548 Remaining issues on UE TX RF requirements**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

**R4-2208549 Remaining issues on UE RX RF requirements**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

**R4-2208861 REFSENs for 6G license band**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208891 Licensed 6GHz: Remaining UE RF open issues**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses the remaining UE RF open issues for band n104

**Decision:** The document was **not treated**.

**R4-2209580 Discussion on UE RF requirements for 6425-7125MHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2210196 UE RF requirements for the 6 GHz licensed band**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210197 Introduction of NR licensed band 6425 – 7125 MHz**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1112 rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 8.1.4 BS RF requirements

**R4-2207921 Proposals on BS RF requirements for introduction of 6GHz licensed band**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution has provided further proposals on BS RF requirements for the new 6GHz licensed band (6425 – 7125 MHz) based on the agreed way forward.

**Decision:** The document was **not treated**.

**R4-2207922 CR to TR 38.176-1 on introduction of 6GHz licensed band**

*Type: CR For: Agreement  
 38.176-1 v17.0.0 CR-0005 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Introduce co-existence and co-location spurious emission requriements for 6GHz licensed band.

**Decision:** The document was **not treated**.

**R4-2208242 Remaining issue for BS RF requriement in 6GHz band**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208243 Introducing 6GHz licensed operation into 38.141-1**

*Type: CR For: Agreement  
 38.141-1 v17.5.0 CR-0270 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208244 Introducing 6GHz licensed operation into 37.105**

*Type: CR For: Agreement  
 37.105 v17.5.0 CR-0254 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208245 Introducing 6GHz licensed operation into 38.174**

*Type: CR For: Agreement  
 38.174 v17.0.0 CR-0027 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208409 Discussion on BS requirements for 6GHz licensed spectrum**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208550 Remaining issues on BS RF requirements**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

**R4-2208551 Measurement uncertainty for 6 to 7.125GHz**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208552 CR on introduction of 6GHz licensed band for 37.145-1**

*Type: CR For: Agreement  
 37.145-1 v17.5.0 CR-0286 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208553 CR on introduction of 6GHz licensed band for 37.145-2**

*Type: CR For: Agreement  
 37.145-2 v17.5.0 CR-0328 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208892 Licensed 6GHz: Remaining BS RF open issues**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses the remaining BS RF open issues for band n104

**Decision:** The document was **not treated**.

**R4-2208894 CR to TS 38.141-2 - Introduction of licensed 6GHz band n104**

*Type: CR For: Agreement  
 38.141-2 v17.5.0 CR-0399 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This contribution is a CR to TS 38.141-2 introducing band n104

**Decision:** The document was **not treated**.

**R4-2208895 CR to TS 38.176-2 - Introduction of licensed 6GHz band n104**

*Type: CR For: Agreement  
 38.176-2 v17.0.0 CR-0006 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This contribution is a CR to TS 38.176-2 introducing band n104

**Decision:** The document was **not treated**.

**R4-2209537 CR to 37.104 on introduction of n104 co-existence requirements**

*Type: CR For: Endorsement  
 37.104 v17.5.0 CR-0964 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209538 CR to 37.141 on introduction of n104 co-existence requirements**

*Type: CR For: Endorsement  
 37.141 v17.5.0 CR-1010 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209581 Discussion on BS RF requirements for 6425-7125MHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209582 CR to TS38.104 the introduction of 6425-7125MHz**

*Type: CR For: Endorsement  
 38.104 v17.5.0 CR-0383 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209583 CR to TS36.104 the introduction of coexistence requirements of licensed band 6425-7125MHz**

*Type: CR For: Endorsement  
 36.104 v17.5.0 CR-4958 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209584 CR to TS36.141 the introduction of coexistence requirements of licensed band 6425-7125MHz**

*Type: CR For: Endorsement  
 36.141 v17.5.0 CR-1336 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 8.1.5 Others

**R4-2208893 CR to TS 38.133 - Introduction of licensed 6GHz band n104**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2343 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This contribution is a CR to TS 38.133 introducing band n104

**Decision:** The document was **not treated**.

### 8.2 Introduction of 900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

#### 8.2.1 UE RF requirements

#### 8.2.2 BS RF requirements

#### 8.2.3 RRM requirements

**R4-2208901 CR to TS 38.133: RMR 900MHz band introduction**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2344 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This contribution is a CR to TS 38.133: RMR n100band introduction

**Decision:** The document was **not treated**.

**R4-2209675 Draft CR to TS 38.133: implementation of RMR900 band n100, Rel-17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

In this CR to TS 38.133, the RMR900 operating band n100 is introduced for the NR\_RAIL\_EU\_900MHz WI.

**Decision:** The document was **not treated**.

### 8.3 Issues arising from basket WIs but not subject to block approval

**[103-e][115] R17\_Maintenance, AI 8.3 – Dominique Brunel**

**R4-2210250 Email summary for [103-e][115] NR\_Baskets\_Part\_1**

*Type: other For: Information  
 Source: Moderator (Skyworks)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.3.1 UE RF requirements

**R4-2207716 TP for TR 37.717-21-11 Addition of DC\_12-30\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207717 TP for TR 37.717-21-11 Addition of DC\_14-30\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207988 Additional criteria for triple beat issue detection**

*Type: discussion For: Approval  
 Source: Skyworks Solutions Inc.*

**Abstract:**

For this meeting, a formal check of all potential triple beat cases identified in the latest revision of 31.101-3 is presented in [2]. Based on this premise, we propose that an additional criterion related to band separation be added to detect the need fo

**Decision:** The document was **not treated**.

**R4-2207989 Completion of inter-band band combinations with intra-band ULCA in UL configuration**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

Since we are approaching the conclusion of Release 17 for the band combination baskets, we have evaluated the latest revisions of 38.101-1 and 38-101-3 for the completeness of inter-band combinations with contiguous or non-contiguous UL CA as part of the

**Decision:** The document was **not treated**.

**R4-2207993 Draft CR to TS 38.101-1 V17.5.0 on intra-band ULCA UL configurations**

*Type: draftCR For: Agreement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

Providing corrections to inter-band NRCA combinations with ULCA in UL configuration for completeness

**Decision:** The document was **not treated**.

**R4-2208002 DC\_(n)3AA MSD**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208003 DC\_28\_n40-n41 MSD**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208004 DC\_(n)7AA MSD**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208707 TP for TR38.717-03-02\_CA\_n28A-n40A-n41A**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209252 second test point for CA\_n18-n28 MSD**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we make our proposal for a second test point for cross band isolation MSD for CA\_n18-n28 and suggest implementing this only when the simplified cross band requirement is in place.

**Decision:** The document was **not treated**.

**R4-2209560 TP for TR 37 717-11-11 to include CA\_n7(AA)**

*Type: pCR For: Approval  
 37.717-11-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37 717-11-11 to include CA\_n7(AA)

**Decision:** The document was **not treated**.

**R4-2210108 Draft CR to TS 38.101-3 V17.5.0 on intra-band ULCA UL configurations**

*Type: draftCR For: Agreement  
 38.101-3 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

Providing corrections to inter-band ENDC combinations with ULCA in UL configuration for completeness

**Decision:** The document was **not treated**.

**R4-2210233 Single Uplink MSD for DC\_(n)3AA**

*Type: discussion For: Approval  
 38.101-3 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

#### 8.3.2 NR-U intra-band contiguous UL CA

### 8.4 NR intra band Carrier Aggregation for xCC DL/yCC UL including contiguous and non-contiguous spectrum (x>=y)

**[103-e][116] NR\_Baskets\_Part\_2, AI 8.4, 8.11, 8.12, 8.13, 8.14 – Iwo Angelow**

**R4-2210251 Email discussion summary [103-e][116] NR\_Baskets\_Part\_2**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.4.1 Rapporteur Input (WID/TR/CR)

**R4-2209542 Revised WID NR Intra-band Rel-17**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

Revised WID NR Intra-band Rel-17

**Decision:** The document was **not treated**.

**R4-2209546 big CR 38.101-1 new combinations Rel-17 NR Intra-band**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1103 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

big CR 38.101-1 new combinations Rel-17 NR Intra-band

**Decision:** The document was **not treated**.

**R4-2209547 big CR 38.101-2 new combinations Rel-17 NR Intra-band**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0463 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

big CR 38.101-2 new combinations Rel-17 NR Intra-band

**Decision:** The document was **not treated**.

**R4-2209551 TR 38.717-01-01 v0.9.0 Rel-17 NR Intra-band**

*Type: draft TR For: Agreement  
 38.717-01-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 38.717-01-01 v0.9.0 Rel-17 NR Intra-band

**Decision:** The document was **not treated**.

#### 8.4.2 UE RF requirements for FR1

**R4-2209111 DraftCR 38.101-1: Addition of CA\_n25(2A) and CA\_n25(3A) BCS4**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209112 DraftCR 38.101-1: CA\_n41(3A) BCS4 and CA\_n41(4A) BCS0 and 4**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209113 DraftCR 38.101-1: CA\_n41(A-C) BCS4 and CA\_n41(2A-C) BCS0 and 4**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209114 DraftCR 38.101-1: CA\_n66(2A) BCS4**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209115 DraftCR 38.101-1: CA\_n71(2A) BCS4**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209116 DraftCR 38.101-1:CA\_n71B BCS4**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209117 DraftCR 38.101-1: CA\_n77(2A) BCS4**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209118 DraftCR 38.101-1: CA\_n25-n41 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

#### 8.4.3 UE RF requirements for FR2

### 8.5 NR inter-band Carrier Aggregation/Dual Connectivity for 2 bands DL with x bands UL (x=1, 2)

**[103-e][117] NR\_Baskets\_Part\_3, AI 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.15, 8.16, 8.17, 8.18, 8.19 – Johannes Hejselbaek**

**R4-2210252 Email discussion summary [103-e][117] NR\_Baskets\_Part\_3**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.5.1 Rapporteur Input (WID/TR/CR)

**R4-2208708 Revised WID on Rel-17 NR Inter-band Carrier Aggregation/Dual Connectivity for 2 bands DL with x bands UL (x=1,2)**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208709 Big CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1075 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208710 Big CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-2**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0457 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208711 Big CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0716 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209035 Draft TR 38.717-02-01 v0.9.0**

*Type: draft TR For: Endorsement  
 38.717-02-01 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

#### 8.5.2 NR inter band CA requirements without any FR2 band(s)

**R4-2207744 Draft CR for 38.101-1 to introduce CA\_n3A-n41B,CA\_n28A-n41B and CA\_n41B-n77A**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: KDDI Corporation*

**Decision:** The document was **not treated**.

**R4-2207828 Draft CR for TS 38.101-1: Support of BCS2 in CA\_n41-n79**

*Type: draftCR For: (not specified)  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207829 Draft CR for TS 38.101-1: Support of n77(3A) in CA\_n77-n79**

*Type: draftCR For: (not specified)  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207986 TP for TR 38.717-02-01: Updates to CA\_n24-n77 RefSens requirements clause**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Ligado Networks*

**Decision:** The document was **not treated**.

**R4-2208438 TP for TR 38.717-02-01 CA\_n5-n40**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208689 Draft CR to TS38.101-1: CA\_n34A-n79C**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208690 TP for TR 38.717-02-01: CA\_n28A-n34A**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208691 TP for TR 38.717-02-01: CA\_n28A-n39A**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208692 TP for TR 38.717-02-01: CA\_n34A-n41A/C**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209119 DraftCR 38.101-1: CA\_n25-n66 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209120 DraftCR 38.101-1: CA\_n25-n71 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209121 DraftCR 38.101-1: CA\_n25-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209122 DraftCR 38.101-1: CA\_n41-n66 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209123 DraftCR 38.101-1: CA\_n41-n71 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209124 DraftCR 38.101-1: CA\_n41-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209125 DraftCR 38.101-1: CA\_n66-n71 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209126 DraftCR 38.101-1: CA\_n66-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209127 DraftCR 38.101-1: CA\_n71-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209275 Draft CR for 38.101-1 to add configuration CA\_n3B-n79C**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209283 TP for 38.717-02-01 CA\_n28A-n79C with UL\_n79C**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209284 TP for 38.717-02-01 CA\_n3A-n79C with UL\_n79C**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209285 TP for 38.717-02-01 CA\_n3A-n78C with UL\_n78C**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209286 TP for 38.717-02-01 CA\_n1A-n78C with UL\_n78C**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209287 Updated TP for 38.717-02-01 CA\_n8A-n77A**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Softbank*

**Decision:** The document was **not treated**.

**R4-2209927 TP to TR 38.717-02-01 Addition of CA\_n8-n38**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision:** The document was **not treated**.

**R4-2209928 TP to TR 38.717-02-01 Addition of CA\_n20-n40**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision:** The document was **not treated**.

**R4-2209929 TP to TR 38.717-02-01 Addition of CA\_n38-n40**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision:** The document was **not treated**.

**R4-2209932 draftCR 38.101-1 Addition of CA\_n41A-n77C**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209933 draftCR 38.101-1 Addition of CA\_n41A-n78C**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209934 TP to TR 38.717-02-01 Addition of CA\_n40-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209935 draftCR 38.101-1 Addition of CA\_n40A-n78C**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209936 TP to TR 38.717-02-01 Addition of CA\_n7-n40**

*Type: pCR For: Approval  
 38.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

#### 8.5.3 NR inter band CA requirements with at least one FR2 band

**R4-2207703 draft CR 38.101-3 to add new NR CA 2DL/1UL combinations**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Charter Communications, Inc*

**Decision:** The document was **not treated**.

**R4-2207830 Draft CR for TS 38.101-3: Support of n77(2A) and n258D/G/H/I in CA\_n77-n258**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207831 Draft CR for TS 38.101-3: Addition of UL configurations in CA\_n79-n258**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207934 DraftCR 38.101-3: Addition of FR1+FR2 combos**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Verizon, ZTE, Samsung*

**Decision:** The document was **not treated**.

**R4-2208339 draft CR for CA\_n8-n257, DC\_n8-n257**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2209276 Draft CR for 38.101-3 to add configuration CA\_n3A-n257JkLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209277 Draft CR for 38.101-3 to add configuration CA\_n3B-n258AGHIJkLM and CA\_n3(2A)-n258AGHIJkLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209278 Draft CR for 38.101-3 to add configuration CA\_n7A-n257AGHIJkLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209279 Draft CR for 38.101-3 to add configuration CA\_n79A-n257JkLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209280 Draft CR for 38.101-3 to add configuration CA\_n79A-n258M**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209281 Draft CR for 38.101-3 to add configuration CA\_n38A-n257AGHIJkLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209282 Draft CR for 38.101-3 to add configuration CA\_n38A-n258AGHIJkLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209574 draft CR 38.101-2 on correction in 2DL NR CA configuration table**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR 38.101-2 on correction in 2DL NR CA configuration table

**Decision:** The document was **not treated**.

**R4-2209575 draft CR 38.101-3 on corrections in 2DL NR CA configuration table**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR 38.101-3 on corrections in 2DL NR CA configuration table

**Decision:** The document was **not treated**.

**R4-2209618 Draft CR for TS 38.101-3 to add configurations CA\_n3A-n257(2A) and DC\_n3A-n257(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209619 Draft CR for TS 38.101-3 to add configurations CA\_n3A-n258(2A) and DC\_n3A-n258(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209620 Draft CR for TS 38.101-3 to add configurations CA\_n78A-n257(2A) and DC\_n78A-n257(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209621 Draft CR for TS 38.101-3 to add configurations CA\_n78A-n258(2A) and DC\_n78A-n258(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2210051 Draft CR for 38.101-3: Consolidation of DC\_n41-n66-n260**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: T-Mobile USA Inc.*

**Decision:** The document was **not treated**.

### 8.6 NR Inter-band Carrier Aggregation for 3 bands DL with 1 band UL

#### 8.6.1 Rapporteur Input (WID/TR/CR)

**R4-2208238 TR 38.717-03-01 on Rel-17 NR inter-band Carrier Aggregation (CA) for 3 Down Link (DL) / 1 Up Link (UL) v.0.8.0**

*Type: draft TR For: Agreement  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208239 Revised WID on Rel-17 NR inter-band CA of 3DL bands and 1UL band**

*Type: WID revised For: Endorsement  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208240 CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1064 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208241 CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0714 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

#### 8.6.2 UE RF requirements

**R4-2207745 Draft CR for 38.101-1 to introduce new configurations for NR inter-band CA 3 bands DL with 1 band UL**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: KDDI Corporation*

**Decision:** The document was **not treated**.

**R4-2207834 Draft CR for TS 38.101-3: Support of n77 intra-band non-contiguous CA in CA\_n28-n77-n257 and CA\_n41-n77-n257**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207847 TP for TR 38.717-03-01: NR CA\_n77-n79-n258**

*Type: pCR For: (not specified)  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2208306 TP for TR 38.717-03-01: support of CA\_n8-n78-n257**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2208434 Draft CR for 38.101-1 to introduce new configurations for NR inter-band CA 3 bands DL with 1 band UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, KDDI*

**Decision:** The document was **not treated**.

**R4-2208439 TP for TR 38.717-03-01 CA\_n5-n40-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208699 TP for TR38.717-03-01\_CA\_n3A-n8A-n41A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208700 TP for TR38.717-03-01\_CA\_n3A-n8A-n79A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208701 TP for TR38.717-03-01\_CA\_n8A-n39A-n79A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208702 TP for TR38.717-03-01\_CA\_n28A-n39A-n40A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208703 TP for TR38.717-03-01\_CA\_n28A-n39A-n41**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208704 TP for TR38.717-03-01\_CA\_n28A-n39A-n79A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209288 TP for 38.717-03-01 CA\_n1A-n28A-n38A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209289 Draft CR for 38.101-1 to add configuration CA\_n1A-n28A-n78A\_BCS2**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209290 TP for 38.717-03-01 CA\_n1A-n38A-n78A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209291 TP for 38.717-03-01 CA\_n28A-n38A-n78A**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209292 Draft CR for 38.101-1 to add configuration CA\_n1A-n3B-n7A CA\_n1A-n3(2A)-n7A CA\_n1(2A)-n3A-n7A CA\_n1(2A)-n3B-n7A and CA\_n1(2A)-n3(2A)-n7A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209293 TP for 38.717-03-01 CA\_n1A-n7A-n79A CA\_n1(2A)-n7A-n79A CA\_n1A-n7A-n79C and CA\_n1(2A)-n7A-n79C**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209930 TP to TR 38.717-03-01 Addition of CA\_n3-n38-n40**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision:** The document was **not treated**.

**R4-2209931 TP to TR 38.717-03-01 Addition of CA\_n8-n38-n40**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision:** The document was **not treated**.

**R4-2209937 TP to TR 38.717-03-01 Addition of CA\_n1-n7-n40**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209938 TP to TR 38.717-03-01 Addition of CA\_n1-n8-n40**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209939 TP to TR 38.717-03-01 Addition of CA\_n7-n8-n40**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209940 TP to TR 38.717-03-01 Addition of CA\_n8-n40-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

### 8.7 NR Inter-band Carrier Aggregation for 4 bands DL with 1 band UL

#### 8.7.1 Rapporteur Input (WID/TR/CR)

**R4-2209544 Revised WID 4DL/1UL NR CA Rel-17**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

Revised WID 4DL/1UL NR CA Rel-17

**Decision:** The document was **not treated**.

**R4-2209549 big CR 38.101-1 new combinations NR CA Inter-band 4DL/1UL**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1104 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

big CR 38.101-1 new combinations NR CA Inter-band 4DL/1UL

**Decision:** The document was **not treated**.

**R4-2209553 TR 38.717-04-01 v0.9.0 Rel-17 NR CA Inter-band 4DL/1UL**

*Type: draft TR For: Agreement  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 38.717-04-01 v0.9.0 Rel-17 NR CA Inter-band 4DL/1UL

**Decision:** The document was **not treated**.

**R4-2209569 draft CR converting 38.101-1 4DL configuration table into new table format**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR converting 38.101-1 4DL configuration table into new table format

**Decision:** The document was **not treated**.

#### 8.7.2 UE RF requirements

**R4-2207837 Draft CR for TS 38.101-3: Support of n77(3A) in CA\_n3-n28-n77-n257**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207838 Draft CR for TS 38.101-3: Support of n257H/I in CA\_n28-n41-n77-n257**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207849 TP for TR 38.717-04-01: CA\_n1-n3-n41-n257**

*Type: pCR For: (not specified)  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207850 TP for TR 38.717-04-01: CA\_n1-n28-n41-n257**

*Type: pCR For: (not specified)  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207851 TP for TR 38.717-04-01: CA\_n1-n41-n77-n257**

*Type: pCR For: (not specified)  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2208312 TP for TR 38.717-04-01: support of CA\_n1-n8-n78-n257**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2208436 Draft CR for 38.101-1 to introduce new configurations for NR inter-band CA 4 bands DL with 1 band UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, KDDI*

**Decision:** The document was **not treated**.

**R4-2209947 TP to TR 38.717-04-01 Addition of CA\_n1-n7-n8-n40**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209948 TP to TR 38.717-04-01 Addition of CA\_n1-n7-n8-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209949 TP to TR 38.717-04-01 Addition of CA\_n1-n7-n40-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209950 TP to TR 38.717-04-01 Addition of CA\_n1-n8-n40-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209951 TP to TR 38.717-04-01 Addition of CA\_n7-n8-n40-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209977 TP for 38.717-04-01 to introduce CA\_n2A-n12A-n30A-n77A**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209978 TP for 38.717-04-01 to introduce CA\_n2A-n12A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209979 TP for 38.717-04-01 to introduce CA\_n2A-n29A-n30A-n77A**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209980 TP for 38.717-04-01 to introduce CA\_n2A-n29A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209981 TP for 38.717-04-01 to introduce CA\_n12A-n30A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209982 TP for 38.717-04-01 to introduce CA\_n29A-n30A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

### 8.8 NR Inter-band Carrier Aggregation/Dual connectivity for 3 bands DL with 2 bands UL

#### 8.8.1 Rapporteur Input (WID/TR/CR)

**R4-2209036 Draft TR 38.717-03-02 v0.9.0**

*Type: draft TR For: Endorsement  
 38.717-02-01 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2209635 Revised WID on Rel-17 NR Inter-band Carrier AggregationDual Connectivity for 3 bands DL with 2 bands UL, ZTE Corporation**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209636 Big CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-1**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1105 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209637 Big CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-3**

*Type: CR For: Approval  
 38.101-3 v17.5.0 CR-0727 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 8.8.2 UE RF requirements

**R4-2207746 Draft CR for 38.101-1 to introduce new configurations for NR inter-band CA 3 bands DL with 2 bands UL**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: KDDI Corporation*

**Decision:** The document was **not treated**.

**R4-2207833 Draft CR for TS 38.101-3: Support of n77(3A) in CA\_n3-n77-n257 and CA\_n28-n77-n257**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207845 TP for TR 38.717-03-02: CA\_n3-n41-n257**

*Type: pCR For: (not specified)  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207846 TP for TR 38.717-03-02: CA\_n28-n41-n257**

*Type: pCR For: (not specified)  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207860 TP update for TR 38.717-03-02: CA\_n3-n28-n41**

*Type: pCR For: (not specified)  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp., ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2207928 DraftCR 38.101-3 Addition of Missing DL and UL configurations for NR CA and NR-DC Combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

**R4-2207929 TP for TR 38.717-03-02: CA/DC\_n5-n66-n261**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2207930 TP for TR 38.717-03-02: CA/DC\_n2-n66-n261**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2207931 TP for TR 38.717-03-02: CA/DC\_n2-n5-n261**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2208435 Draft CR for 38.101-1 to introduce new configurations for NR inter-band CA 3 bands DL with 2 bands UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, KDDI*

**Decision:** The document was **not treated**.

**R4-2208440 TP for TR 38.717-03-02 CA\_n5-n40-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208563 DraftCR for 38.101-3: BCS1 for CA\_n66-n77-n260**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision:** The document was **not treated**.

**R4-2208688 Draft CR to TS38.101-1: CA\_n28A-n41C-n79A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208705 TP for TR38.717-03-02\_CA\_n1A-n8A-n78A**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation, CHTTL*

**Decision:** The document was **not treated**.

**R4-2208706 TP for TR38.717-03-02\_CA\_n28A-n39A-n41**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209565 draft CR 38.101-3 to add new NR CA 3DL 2UL combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-3 to add new NR CA 3DL 2UL combinations

**Decision:** The document was **not treated**.

**R4-2209566 draft CR 38.101-3 to add new NR DC 3DL 2UL combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-3 to add new NR DC 3DL 2UL combinations

**Decision:** The document was **not treated**.

**R4-2209572 draft CR 38.101-1 on corrections in 3DL NR CA configuration table**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR 38.101-1 on corrections in 3DL NR CA configuration table

**Decision:** The document was **not treated**.

**R4-2209576 draft CR 38.101-3 on corrections in 3DL NR CA configuration table**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR 38.101-3 on corrections in 3DL NR CA configuration table

**Decision:** The document was **not treated**.

**R4-2209941 TP to TR 38.717-03-02 Addition of CA\_n1-n7-n8**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209942 TP to TR 38.717-03-02 Addition of CA\_n1-n7-n40**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209943 TP to TR 38.717-03-02 Addition of CA\_n1-n8-n40**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209944 TP to TR 38.717-03-02 Addition of CA\_n7-n8-n40**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209945 TP to TR 38.717-03-02 Addition of CA\_n7-n8-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209946 TP to TR 38.717-03-02 Addition of CA\_n8-n40-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209964 draftCR 38.101-1 Addition of DC\_n1A-n7A-n78A**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT*

**Decision:** The document was **not treated**.

**R4-2209965 draftCR 38.101-1 Addition of DC\_n7-n46-n78**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT*

**Decision:** The document was **not treated**.

**R4-2209971 draftCR to add configurations for CA\_n2-n5-n66 to 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209973 draftCR to add configurations for CA\_n2-n14-n66 to 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209974 draftCR to add configurations for CA\_n2-n30-n66 to 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209975 draftCR to add configurations for CA\_n5-n30-n66 to 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209976 draftCR to add configurations for CA\_n14-n30-n66 to 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2210041 DraftCR 38.101-3 Addition of Missing UL configurations for NR CA and NR-DC Combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2210070 draftCR 38.101-1 to add CA\_n25A-n41A-n66A, CA\_n25A-n41A-n66(2A), CA\_n25A-n41C-n66A, CA\_n25A-n41(2A)-n66A, CA\_n25(2A)-n41A-n66A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n25A-n41A-n66A, CA\_n25A-n41A-n66(2A), CA\_n25A-n41C-n66A, CA\_n25A-n41(2A)-n66A, CA\_n25(2A)-n41A-n66A

**Decision:** The document was **not treated**.

**R4-2210071 draftCR 38.101-1 to add CA\_n25A-n41A-n71A, CA\_n25A-n41A-n71B, CA\_n25A-n41A-n71(2A), CA\_n25A-n41C-n71A, CA\_n25A-n41(2A)-n71A, CA\_n25(2A)-n41A-n71A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n25A-n41A-n71A, CA\_n25A-n41A-n71B, CA\_n25A-n41A-n71(2A), CA\_n25A-n41C-n71A, CA\_n25A-n41(2A)-n71A, CA\_n25(2A)-n41A-n71A

**Decision:** The document was **not treated**.

**R4-2210072 draftCR 38.101-1 to add CA\_n25A-n41A-n77A,CA\_n25A-n41A-n77(2A), CA\_n25A-n41C-n77A, CA\_n25A-n41(2A)-n77A, CA\_n25(2A)-n41A-n77A, CA\_n25A-n41(2A)-n77(2A), CA\_n25A-n41C-n77(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n25A-n41A-n77A,CA\_n25A-n41A-n77(2A), CA\_n25A-n41C-n77A, CA\_n25A-n41(2A)-n77A, CA\_n25(2A)-n41A-n77A, CA\_n25A-n41(2A)-n77(2A), CA\_n25A-n41C-n77(2A)

**Decision:** The document was **not treated**.

**R4-2210073 draftCR 38.101-1 to add CA\_n25A-n66A-n71A, CA\_n25A-n66A-n71B, CA\_n25A-n66A-n71(2A), CA\_n25A-n66(2A)-n71A, CA\_n25(2A)-n66A-n71A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n25A-n66A-n71A, CA\_n25A-n66A-n71B, CA\_n25A-n66A-n71(2A), CA\_n25A-n66(2A)-n71A, CA\_n25(2A)-n66A-n71A

**Decision:** The document was **not treated**.

**R4-2210074 draftCR 38.101-1 to add CA\_n25A-n66A-n77A, CA\_n25A-n66A-n77(2A), CA\_n25A-n66(2A)-n77A, CA\_n25(2A)-n66A-n77A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n25A-n66A-n77A, CA\_n25A-n66A-n77(2A), CA\_n25A-n66(2A)-n77A, CA\_n25(2A)-n66A-n77A

**Decision:** The document was **not treated**.

**R4-2210075 draftCR 38.101-1 to add CA\_n25A-n71A-n77A, CA\_n25A-n71B-n77A, CA\_n25A-n71(2A)-n77A, CA\_n25(2A)-n71A-n77A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n25A-n71A-n77A, CA\_n25A-n71B-n77A, CA\_n25A-n71(2A)-n77A, CA\_n25(2A)-n71A-n77A

**Decision:** The document was **not treated**.

**R4-2210076 draftCR 38.101-1 to add CA\_n41A-n66A-n71A, CA\_n41A-n66A-n71B, CA\_n41A-n66A-n71(2A),CA\_n41A-n66(2A)-n71A, CA\_n41C-n66A-n71A, CA\_n41(2A)-n66A-n71A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n41A-n66A-n71A, CA\_n41A-n66A-n71B, CA\_n41A-n66A-n71(2A),CA\_n41A-n66(2A)-n71A, CA\_n41C-n66A-n71A, CA\_n41(2A)-n66A-n71A

**Decision:** The document was **not treated**.

**R4-2210077 draftCR 38.101-1 to add CA\_n41A-n66A-n77A, CA\_n41A-n66A-n77(2A),CA\_n41A-n66(2A)-n77A, CA\_n41A-n66(2A)-n77(2A), CA\_n41C-n66A-n77A, CA\_n41(2A)-n66A-n77A, CA\_n41(2A)-n66A-n77(2A), CA\_n41C-n66A-n77(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n41A-n66A-n77A, CA\_n41A-n66A-n77(2A),CA\_n41A-n66(2A)-n77A, CA\_n41A-n66(2A)-n77(2A), CA\_n41C-n66A-n77A, CA\_n41(2A)-n66A-n77A, CA\_n41(2A)-n66A-n77(2A), CA\_n41C-n66A-n77(2A)

**Decision:** The document was **not treated**.

**R4-2210078 draftCR 38.101-1 to add CA\_n41A-n71A-n77A, CA\_n41A-n71A-n77(2A), CA\_n41A-n71B-n77A, CA\_n41A-n71(2A)-n77A, CA\_n41C-n71A-n77A, CA\_n41(2A)-n71A-n77A, CA\_n41C-n71A-n77(2A), CA\_n41(2A)-n71A-n77(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n41A-n71A-n77A, CA\_n41A-n71A-n77(2A), CA\_n41A-n71B-n77A, CA\_n41A-n71(2A)-n77A, CA\_n41C-n71A-n77A, CA\_n41(2A)-n71A-n77A, CA\_n41C-n71A-n77(2A), CA\_n41(2A)-n71A-n77(2A)

**Decision:** The document was **not treated**.

**R4-2210079 draftCR 38.101-1 to add CA\_n66A-n71A-n77A, CA\_n66A-n71A-n77(2A), CA\_n66A-n71B-n77A, CA\_n66A-n71(2A)-n77A, CA\_n66(2A)-n71A-n77A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

draftCR 38.101-1 to add CA\_n66A-n71A-n77A, CA\_n66A-n71A-n77(2A), CA\_n66A-n71B-n77A, CA\_n66A-n71(2A)-n77A, CA\_n66(2A)-n71A-n77A

**Decision:** The document was **not treated**.

**R4-2210153 Draft CR to TS 38.101-1 V17.5.0 on removing CBW in NRCA band combination that are missing in lower fallbacks**

*Type: draftCR For: Agreement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

Removing CBW in NRCA band combination channel configurations that are missing in lower fallbacks

**Decision:** The document was **not treated**.

### 8.9 NR inter-band Carrier Aggregation and Dual connectivity for DL 4 bands and 2UL bands

#### 8.9.1 Rapporteur Input (WID/TR/CR)

**R4-2208428 TR 38.717-04-02 update version 0.9.0**

*Type: draft TR For: Agreement  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208430 Big CR on introduction of completed NR CA/DC combs with 4DL/2UL within FR1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1066 rev Cat: B (Rel-17)  
  
 Source: Samsung*

**Abstract:**

big CR

**Decision:** The document was **not treated**.

**R4-2208431 Big CR on introduction of completed NR CA/DC combs with 4DL/2UL including FR2**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0715 rev Cat: B (Rel-17)  
  
 Source: Samsung*

**Abstract:**

big CR

**Decision:** The document was **not treated**.

**R4-2208432 Revised WID on NR CA/DC with 4DL/2UL**

*Type: WID revised For: Information  
 Source: Samsung*

**Decision:** The document was **not treated**.

#### 8.9.2 UE RF requirements

**R4-2207840 Draft CR for TS 38.101-1: Support of DC\_n1-n3-n28-n77/79, DC\_n1-n3/28-n77-n79, DC\_n3-n28-n41-n77 and DC\_n3-n28-77-n79**

*Type: draftCR For: (not specified)  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2208437 Draft CR for 38.101-1 to introduce new configurations for NR inter-band CA 4 bands DL with 2 bands UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, KDDI*

**Decision:** The document was **not treated**.

**R4-2208473 Draft CR for 38.101-3 to change 4DL configuration table into new format**

*Type: draftCR For: Endorsement  
 38.717-04-02 v0.8.0 CR- rev Cat: F (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2209128 DraftCR 38.101-1: CA\_n25-n41-n66-n71 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209129 DraftCR 38.101-1: CA\_n25-n41-n66-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209130 DraftCR 38.101-1: CA\_n25-n41-n71-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209131 DraftCR 38.101-1: CA\_n25-n66-n71-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209132 DraftCR 38.101-1: CA\_n41-n66-n71-n77 configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2209952 TP to TR 38.717-04-02 Addition of CA\_n1-n7-n8-n40**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209953 TP to TR 38.717-04-02 Addition of CA\_n1-n7-n8-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209954 TP to TR 38.717-04-02 Addition of CA\_n1-n7-n40-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209955 TP to TR 38.717-04-02 Addition of CA\_n1-n8-n40-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209956 TP to TR 38.717-04-02 Addition of CA\_n7-n8-n40-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision:** The document was **not treated**.

**R4-2209970 draftCR to add configurations for CA\_n2-n5-n30-n66 to 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209972 draftCR to add configurations for CA\_n2-n14-n30-n66 to 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209983 TP for 38.717-04-02 to introduce CA\_n2A-n12A-n30A-n77A**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209984 TP for 38.717-04-02 to introduce CA\_n2A-n12A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209985 TP for 38.717-04-02 to introduce CA\_n2A-n29A-n30A-n77A**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209986 TP for 38.717-04-02 to introduce CA\_n2A-n29A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209987 TP for 38.717-04-02 to introduce CA\_n12A-n30A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

**R4-2209988 TP for 38.717-04-02 to introduce CA\_n29A-n30A-n66A-n77A**

*Type: pCR For: Approval  
 38.717-04-02 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision:** The document was **not treated**.

### 8.10 NR inter-band CA for 5 bands DL with x bands UL (x=1, 2)

#### 8.10.1 Rapporteur Input (WID/TR/CR)

**R4-2209263 Revised WID on NR inter-band CA for 5 bands DL with x bands UL (x=1, 2)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209264 TR 38.717-05-01 v1.0.0**

*Type: draft TR For: Agreement  
 38.717-05-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209265 Big CR on Introduction of completed 5 bands inter-band CA into TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1090 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209266 Big CR on Introduction of completed 5 bands inter-band CA into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0720 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.10.2 UE RF requirements

**R4-2209573 draft CR 38.101-1 on corrections in 5DL NR CA configuration table**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR 38.101-1 on corrections in 5DL NR CA configuration table

**Decision:** The document was **not treated**.

### 8.11 DC of 1 LTE band and 1 NR band

#### 8.11.1 Rapporteur Input (WID/TR/CR)

**R4-2207892 Big CR for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0710 rev Cat: B (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2207893 TR 37.717-11-11 v1.2.0 Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: draft TR For: Agreement  
 37.717-11-11 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2207903 Revised WID for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID revised For: Approval  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2208284 CR for release independent of Rel.17 NE-DC FR1 and FR2 combinations**

*Type: CR For: Agreement  
 38.307 v17.5.0 CR-0098 rev Cat: B (Rel-17)  
  
 Source: CHTTL, CMCC, SGS Wireless, Samsung*

**Decision:** The document was **not treated**.

**R4-2209567 draft CR 38.101-3 to add DC\_1\_n7 configuration**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

draft CR 38.101-3 to add DC\_1\_n7 configuration

**Decision:** The document was **not treated**.

#### 8.11.2 EN-DC requirements without FR2 band

**R4-2207727 DraftCR 38.101-3 Addition of 1 Band LTE and 1 Band NR EN-DC Combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207859 TP update for TR 37.717-11-11: DC\_41\_n1**

*Type: pCR For: (not specified)  
 37.717-11-11 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2209570 TP for TR 37.717-11-11 to correct DC\_2\_n25**

*Type: pCR For: Approval  
 37.717-11-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TP for TR 37.717-11-11 to correct DC\_2\_n25

**Decision:** The document was **not treated**.

**R4-2209926 TP for 37.717-11-11 to introduce DC\_71\_n77**

*Type: pCR For: Approval  
 37.717-11-11 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular*

**Decision:** The document was **not treated**.

**R4-2209966 draftCR 38.101-3 Addition of DC\_1A\_n7A-n782A**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT*

**Decision:** The document was **not treated**.

#### 8.11.3 EN-DC requirements with FR2 band

**R4-2207832 Draft CR for TS 38.101-3: Support of UL DC\_28A\_n257D in DC\_28\_n257**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2209561 draft CR 38.101-3 to add DC\_14\_n258**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-3 to add DC\_14\_n258

**Decision:** The document was **not treated**.

**R4-2209562 draft CR 38.101-3 to add DC\_30\_n258**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-3 to add DC\_30\_n258

**Decision:** The document was **not treated**.

**R4-2209622 Draft CR for TS 38.101-3 to add EN-DC configuration DC\_1A\_n257(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209623 Draft CR for TS 38.101-3 to add EN-DC configuration DC\_1A\_n258(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209624 Draft CR for TS 38.101-3 to add EN-DC configuration DC\_7A\_n257(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209625 Draft CR for TS 38.101-3 to add EN-DC configuration DC\_7A\_n258(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2210069 draft CR 38101-3 to add DC\_26A\_n258A-M**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38101-3 to add DC\_26A\_n258A-M

**Decision:** The document was **not treated**.

### 8.12 DC of 2 LTE band and 1 NR band

#### 8.12.1 Rapporteur Input (WID/TR/CR)

**R4-2208558 TR 37.717-21-11 V0.9.0 for DC of 2 LTE band and 1 NR band**

*Type: draft TR For: Agreement  
 37.717-21-11 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208559 CR on introduction of completed DC of 2 bands LTE and 1 band NR from RAN4#103-e into TS 38.101-3**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208560 Rel-17 WID: Dual Connectivity (DC) of 2 bands LTE inter-band CA (2DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.12.2 EN-DC requirements without FR2 band

**R4-2207715 TP for TR 37.717-21-11 Addition of DC\_2-14\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207718 TP for TR 37.717-21-11 Addition of DC\_14-66\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207728 DraftCR 38.101-3 Addition of 2 Bands LTE and 1 Band NR EN-DC Combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207765 TP for TR 37.717-21-11: DC\_1-20\_n7**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_1-20\_n7.

**Decision:** The document was **not treated**.

**R4-2207835 Draft CR for TS 38.101-3: Correction of DC\_5-7\_n77 and DC\_5-7\_n78**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207932 TP for TR 37.717-21-11: DC\_48-66\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2207933 TP for TR 37.717-21-11: DC\_2-48\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2208561 draft CR to 38.101-3: corrections on EN-DC configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209020 TP for TR 37.717-21-11: DC\_32A-38A\_n28A**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209170 TP for TR 37.717-21-11 DC\_3A-38A\_n78A and DC\_3C-38A\_n78A**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209171 TP for TR 37.717-21-11 DC\_8A-32A\_n28A**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209272 Draft CR for 38.101-3 to correct the editorial error for DC\_2A-2A-12A\_n78A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209571 TP for TR 37.717-21-11 to include DC\_2-7\_n25 (resubmission of R4-2205702)**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

resubmission of R4-2205702 which was approved at RAN4 102 but not captured in big CR

**Decision:** The document was **not treated**.

**R4-2209633 TP for TR 37.717-21-11\_DC\_1A-38A\_n7A**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209634 TP for TR 37.717-21-11\_DC\_3A-38A\_n7A**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209962 TP to TR 37.717-21-11 Addition of DC\_40A-42A\_n77A**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, NBN*

**Decision:** The document was **not treated**.

**R4-2209963 TP to TR 37.717-21-11 Addition of DC\_40A-42A\_n78A**

*Type: pCR For: Approval  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, NBN*

**Decision:** The document was **not treated**.

**R4-2209993 TP for TR 37.717-21-11: DC\_n77A\_1A-3A, DC\_n77(2A)\_1A-3A**

*Type: pCR For: Agreement  
 37.717-21-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

#### 8.12.3 EN-DC requirements with FR2 band

**R4-2210066 draft CR 38101-3 to add DC\_1A-26A\_n258A-M**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38101-3 to add DC\_1A-26A\_n258A-M

**Decision:** The document was **not treated**.

**R4-2210067 draft CR 38101-3 to add DC\_3A-26A\_n258A-M**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38101-3 to add DC\_3A-26A\_n258A-M

**Decision:** The document was **not treated**.

**R4-2210068 draft CR 38101-3 to add DC\_7A-26A\_n258A-M**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38101-3 to add DC\_7A-26A\_n258A-M

**Decision:** The document was **not treated**.

### 8.13 DC of 3 LTE band and 1 NR band

#### 8.13.1 Rapporteur Input (WID/TR/CR)

**R4-2209543 Revised WID LTE 3DL and one NR band Rel-17**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

Revised WID LTE 3DL and one NR band Rel-17

**Decision:** The document was **not treated**.

**R4-2209548 big CR 38.101-3 new combinations LTE 3DL and one NR band**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0725 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

big CR 38.101-3 new combinations LTE 3DL and one NR band

**Decision:** The document was **not treated**.

**R4-2209552 TR 37.717-31-11 v0.9.0 Rel-17 DC combinations LTE 3DL and one NR band**

*Type: draft TR For: Agreement  
 37.717-31-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 37.717-31-11 v0.9.0 Rel-17 DC combinations LTE 3DL and one NR band

**Decision:** The document was **not treated**.

#### 8.13.2 EN-DC requirements without FR2 band

**R4-2207719 TP for TR 37.717-31-11 Addition of DC\_2-30-(n)5**

*Type: pCR For: Approval  
 37.717-31-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207720 TP for TR 37.717-31-11 Addition of DC\_30-66-(n)5**

*Type: pCR For: Approval  
 37.717-31-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207729 DraftCR 38.101-3 Addition of 3 Bands LTE and 1 Band NR EN-DC Combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207940 TP for TR 37.717-31-11: DC\_2-13-66\_n2**

*Type: pCR For: Approval  
 37.717-31-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2209021 TP for TR 37.717-31-11: DC\_3A-32A-38A\_n28A and DC\_3C-32A-38A\_n28A**

*Type: pCR For: Approval  
 37.717-31-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209172 TP for TR 37.717-31-11 DC\_3A-8A-32A\_n28A and DC\_3C-8A-32A\_n28A**

*Type: pCR For: Approval  
 37.717-31-11 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.13.3 EN-DC requirements with FR2 band

**R4-2209563 draft CR 38.101-3 to add new configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-3 to add new configurations

**Decision:** The document was **not treated**.

### 8.14 DC of 4 LTE band and 1 NR band

#### 8.14.1 Rapporteur Input (WID/TR/CR)

**R4-2209919 Revised Rel-17 WID on DC of 4 bands LTE inter-band CA (4DL1UL) and 1 NR band (1DL1UL)**

*Type: WID revised For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of requests provided for RAN4#103

**Decision:** The document was **not treated**.

**R4-2209920 TR 37.717-41-11-110**

*Type: draft TR For: Agreement  
 37.717-41-11 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of TPs provided at RAN4#103. Presented for information at RAN#95 and will be presented for approval at RAN#96.

**Decision:** The document was **not treated**.

**R4-2209921 Big CR to introduce new combinations of LTE 4band + NR 1band for TS 38.101-3**

*Type: CR For: Endorsement  
 38.101-3 v17.5.0 CR-0728 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of approved combinations provided at RAN4#103

**Decision:** The document was **not treated**.

#### 8.14.2 EN-DC requirements without FR2 band

**R4-2207721 TP for TR 37.717-41-11 Addition of DC\_2-30-66-(n)5**

*Type: pCR For: Approval  
 37.717-41-11 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207841 Draft CR for TS 38.101-3: Support of n77(3A) in DC\_1-3-8-11\_n77**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

#### 8.14.3 EN-DC requirements with FR2 band

**R4-2209564 draft CR 38.101-3 to add new configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-3 to add new configurations

**Decision:** The document was **not treated**.

### 8.15 DC of x bands (x=1,2, 3, 4) LTE inter-band CA and 2 bands NR inter-band CA

#### 8.15.1 Rapporteur Input (WID/TR/CR)

**R4-2207632 TR 37.717-11-21 v0.9.0 TR update: LTE(xDL/1UL)+ NR(2DL/1UL) DC in Rel-17**

*Type: draft TR For: Agreement  
 37.717-11-21 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics Deutschland*

**Abstract:**

TR0.9.0 to complete LTE (xDL/UL x=1.2,3,4) with NR 2 bands (2DL/1UL) DC in Rel-17

**Decision:** The document was **not treated**.

**R4-2207633 Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2,3,4) LTE inter-band CA (xDL/1UL) and 2 bands NR inter-band CA (2DL/1UL)**

*Type: WID revised For: Endorsement  
 Source: LG Electronics Deutschland*

**Abstract:**

revision to change rapporteur and completion date

**Decision:** The document was **not treated**.

**R4-2207634 Introduction CR on new NR DC LTE(xDL/1UL)+ NR(2DL/1UL) band combinations in Rel-17**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0704 rev Cat: B (Rel-17)  
  
 Source: LG Electronics Deutschland*

**Abstract:**

CR to introduce new LTE (xDL/UL x=1.2,3,4) with NR 2 bands (2DL/1UL) DC band combination in Rel-17

**Decision:** The document was **not treated**.

**R4-2207645 Introduction CR on new NR DC LTE(xDL/1UL)+ NR(2DL/1UL) band combinations in Rel-17**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0705 rev Cat: B (Rel-17)  
  
 Source: LG Electronics Deutschland*

**Abstract:**

Introduction CR on new NR DC LTE(xDL/1UL)+ NR(2DL/1UL) band combinations in Rel-17

**Decision:** The document was **withdrawn**.

#### 8.15.2 EN-DC requirements including NR inter CA without FR2 band

**R4-2207839 Draft CR for TS 38.101-3: Support of n77(2A) in DC\_1-8\_n77-n79**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207842 Draft CR for TS 38.101-3: Correction of Rib table for DC\_11\_n1-n77 and DC\_8-11\_n77-n79**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207848 TP for TR 37.717-11-21: EN-DC\_41\_n1-n3**

*Type: pCR For: (not specified)  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207852 TP for TR 37.717-11-21: EN-DC\_8-11\_n1-n77**

*Type: pCR For: (not specified)  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207853 TP for TR 37.717-11-21: EN-DC\_8-41\_n1-n3**

*Type: pCR For: (not specified)  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207854 TP for TR 37.717-11-21: EN-DC\_1-8-11\_n3-n79**

*Type: pCR For: (not specified)  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207855 TP for TR 37.717-11-21: EN-DC\_1-8-11\_n77-n79**

*Type: pCR For: (not specified)  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207909 TP for TR 37.717-11-21: DC\_1\_n3-n75**

*Type: pCR For: Approval  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-11-21 to include DC\_1\_n3-n75.

**Decision:** The document was **not treated**.

**R4-2207910 TP for TR 37.717-11-21: DC\_20\_n7-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-11-21 to include DC\_20\_n7-n78.

**Decision:** The document was **not treated**.

**R4-2207987 TP for TR 37.717-11-21: DC\_1-20\_n7-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-11-21 to include DC\_1-20\_n7-n78.

**Decision:** The document was **not treated**.

**R4-2208441 TP for TR 38.717-11-21 DC\_3\_n5-n40**

*Type: pCR For: Approval  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208696 TP for TR 37.717-11-21: DC\_3A-8A\_n40A-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208838 TP for TR 37.717-11-21: DC\_1A\_n8A-n77A, DC\_1A\_n8A-n77(2A)**

*Type: draft TR For: Approval  
 37.717-11-21 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **withdrawn**.

**R4-2209084 TP for TR 37.717-11-21: DC\_n8A-n77A\_1A, DC\_n8A-n77(2A)\_1A**

*Type: draft TR For: Approval  
 37.717-11-21 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **withdrawn**.

**R4-2209273 Draft CR for 38.101-3 to remove incorrect UL configuration for DC\_1\_n28-n75 and DC\_3\_n28-n75 and add back DC\_3C-20A\_n7A-n28A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, DT*

**Decision:** The document was **not treated**.

**R4-2209274 Draft CR for 38.101-3 to add UL configuration DC\_3C\_n28A and DC\_3C\_n78A for DC\_3C-20A\_n28A-n78A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, DT*

**Decision:** The document was **not treated**.

**R4-2209568 draft CR 38.101-3 to add missing configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

draft CR 38.101-3 to add missing configurations

**Decision:** The document was **not treated**.

**R4-2209632 TP for TR 37.717-11-21\_DC\_38A\_n7A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209967 draftCR 38.101-3 Addition of DC\_1A-3C\_n7A-n78A**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT*

**Decision:** The document was **not treated**.

**R4-2209968 draftCR 38.101-3 Addition of DC\_3C\_n782A UL config**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT*

**Decision:** The document was **not treated**.

**R4-2209969 draftCR 38.101-3 Correction to DC\_3C\_n7A-n782A**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT*

**Decision:** The document was **not treated**.

**R4-2210038 TP for TR 37.717-11-21: DC\_n8A-n77A\_1A, DC\_n8A-n77(2A)\_1A**

*Type: pCR For: Agreement  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

**R4-2210043 TP for TR 37.717-11-21: DC\_1A\_n8A-n77A, DC\_1A\_n8A-n77(2A)**

*Type: pCR For: Agreement  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

#### 8.15.3 EN-DC requirements including NR inter CA with FR2 band

**R4-2207836 Draft CR for TS 38.101-3: Support of UL DC\_28A\_n257D in DC\_28\_n77-n257**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2208697 TP for 37.717-11-21: DC\_8A\_n79A-n258A**

*Type: pCR For: Approval  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208841 TP for TR 37.717-11-21: DC\_n77A-n257A/G/H/I/J/K/L/M\_1A, DC\_n77(2A)-n257A/G/H/I/J/K/L/M\_1A**

*Type: draft TR For: Approval  
 37.717-11-21 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **withdrawn**.

**R4-2208877 TP for TR 37.717-11-21: DC\_n77A-n257A/G/H/I/J/K/L/M\_3A, DC\_n77(2A)-n257A/G/H/I/J/K/L/M\_3A**

*Type: draft TR For: Approval  
 37.717-11-21 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **withdrawn**.

**R4-2209083 TP for TR 37.717-11-21: DC\_n8A-n77A\_1A, DC\_n8A-n77(2A)\_1A**

*Type: draft TR For: Approval  
 37.717-11-21 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **withdrawn**.

**R4-2209577 draft CR 38.101-3 on corrections in EN-DC tables**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR 38.101-3 on corrections in EN-DC tables

**Decision:** The document was **not treated**.

**R4-2209957 draftCR to add DC\_40\_n77-n257 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, NBN*

**Decision:** The document was **not treated**.

**R4-2209958 draftCR to add DC\_40-42\_n77-n257 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, NBN*

**Decision:** The document was **not treated**.

**R4-2209959 draftCR to add DC\_40-42\_n78-n257 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, NBN*

**Decision:** The document was **not treated**.

**R4-2209960 draftCR to add DC\_42\_n77-n257 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, NBN*

**Decision:** The document was **not treated**.

**R4-2209961 draftCR to add DC\_42\_n78-n257 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, NBN*

**Decision:** The document was **not treated**.

**R4-2209989 TP for TR 37.717-11-21: DC\_n77A-n257A/G/H/I/J/K/L/M\_1A-3A, DC\_n77(2A)-n257A/G/H/I/J/K/L/M\_1A-3A**

*Type: pCR For: Agreement  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

**R4-2210037 TP for TR 37.717-11-21 DC\_n77A-n257A\_3A variants DC\_n77(2A)-n257A\_3A variants**

*Type: pCR For: Agreement  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

**R4-2210058 TP for TR 37.717-11-21: DC\_n77A-n257A/G/H/I/J/K/L/M\_1A, DC\_n77(2A)-n257A/G/H/I/J/K/L/M\_1A**

*Type: pCR For: Agreement  
 37.717-11-21 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

### 8.16 DC of x bands (x=1,2) LTE inter-band CA (xDL/xUL) and y bands (y=3-x) NR inter-band CA

#### 8.16.1 Rapporteur Input (WID/TR/CR)

**R4-2208712 Revised WID on Rel-17 Dual Connectivity (DC) x bands (x=1,2) LTE inter-band CA (xDL/xUL) and y bands (y=3-x) NR inter-band CA**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208713 Big CR to reflect the completed ENDC combinations for 3 bands DL with 3 bands UL into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0717 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208714 TR 37.717-33 v0.8.0**

*Type: draft TR For: Agreement  
 37.717-33 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 8.16.2 UE RF requirements

**R4-2208698 TP for 37.717-33: DC\_8A\_n79A-n258A**

*Type: pCR For: Approval  
 37.717-33 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

### 8.17 DC of x bands (x=1,2,3) LTE inter-band CA (xDL/1UL) and 3 bands NR inter-band CA (3DL/1UL)

#### 8.17.1 Rapporteur Input (WID/TR/CR)

**R4-2208715 Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL)**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208716 Big CR to reflect the completed DC of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL) into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0718 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208717 TR 37.717-11-31 v0.8.0**

*Type: draft TR For: Agreement  
 37.717-11-31 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 8.17.2 UE RF requirements

**R4-2207843 Draft CR for TS 38.101-3: Addition of missing Tib/Rib values for NR 3 bands EN-DC combinations**

*Type: draftCR For: (not specified)  
 38.101-3 v15.17.0 CR- rev Cat: (Rel-15)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207856 TP for TR 37.717-11-31: EN-DC\_1-11\_n3-n77-n79**

*Type: pCR For: (not specified)  
 37.717-11-31 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207857 TP for TR 37.717-11-31: EN-DC\_8-11\_n3-n77-n79**

*Type: pCR For: (not specified)  
 37.717-11-31 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2208442 TP for TR 38.717-11-31 DC\_3\_n1-n40-n78**

*Type: pCR For: Approval  
 37.717-11-31 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208443 TP for TR 38.717-11-31 DC\_3\_n5-n40-n78**

*Type: pCR For: Approval  
 37.717-11-31 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

### 8.18 DC of x bands (x=1,2,3) LTE inter-band CA (xDL/1UL) and 4 bands NR inter-band CA (4DL/1UL)

#### 8.18.1 Rapporteur Input (WID/TR/CR)

**R4-2209267 Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2) LTE inter-band CA (xDL1UL) and 4 bands NR inter-band CA (4DL1UL)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209268 Big CR on Introduction of completed Dual Connectivity (DC) of x bands (x=1,2) LTE inter-band CA (xDL1UL) and 4 bands NR inter-band CA (4DL1UL) into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0721 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209269 TR 37.717-11-41 v1.0.0**

*Type: draft TR For: Agreement  
 37.717-11-41 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.18.2 UE RF requirements

**R4-2207844 Draft CR for TS 38.101-3: Addition of missing Tib values in DC\_8\_n3-n28-n77-n79**

*Type: draftCR For: (not specified)  
 38.101-3 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

**R4-2207858 TP for TR 37.717-11-41: EN-DC\_1-8\_n3-n28-n77-n79**

*Type: pCR For: (not specified)  
 37.717-11-41 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

### 8.19 Band combinations for SA NR supplementary uplink (SUL) NSA NR SUL, NSA NR SUL with UL sharing from the UE perspective (ULSUP)

#### 8.19.1 Rapporteur Input (WID/TR/CR)

**R4-2209260 Revised WID on Band combinations for SA NR Supplementary uplink (SUL), NSA NR SUL, NSA NR SUL with UL sharing from the UE perspective (ULSUP)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209261 TR 37.717-00-00 v1.0.0**

*Type: draft TR For: Agreement  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209262 Big CR on Introduction of completed SUL band combinations into TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1089 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.19.2 UE RF requirements

**R4-2208853 Draft CR to 38101-1-h50 for SUL general part**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2209294 Updated TP for 37.717-00-00 to add SUL configuration SUL\_n79C-n83A for CA\_n28A\_SUL\_n79C-n83A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, CBN*

**Decision:** The document was **not treated**.

**R4-2209295 Updated TP for 37.717-00-00 to add SUL configuration SUL\_n41C-n83A for CA\_n28A\_SUL\_n41C-n83A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, CBN*

**Decision:** The document was **not treated**.

**R4-2209296 Updated TP for 37.717-00-00 to add SUL configuration SUL\_n79C-n80A for CA\_n3A\_SUL\_n79C-n80A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209297 Updated TP for 37.717-00-00 to add SUL configuration SUL\_n78C-n80A for CA\_n3A\_SUL\_n78C-n80A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209298 Updated TP for 37.717-00-00 to add SUL configuration SUL\_n78C-n84A for CA\_n1A\_SUL\_n78C-n84A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209299 Draft CR for 38.101-1 to add SUL configuration SUL\_n79C-n95A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209300 Draft CR for 38.101-1 to add SUL configuration SUL\_n79C-n80A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209301 Draft CR for 38.101-1 to add SUL configuration SUL\_n41C-n95A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209302 TP for 37.717-00-00 CA\_n28A-n79A\_SUL\_n41A-n83A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, CBN*

**Decision:** The document was **not treated**.

**R4-2209303 TP for 37.717-00-00 CA\_n28A-n41A\_SUL\_n79A-n83A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, CBN*

**Decision:** The document was **not treated**.

**R4-2209304 TP for 37.717-00-00 CA\_n79A\_SUL\_n41A-n97A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209305 TP for 37.717-00-00 CA\_n41A\_SUL\_n79A-n97A**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209306 CR for 38.307 to update the release independence for R17 SUL band combinations**

*Type: CR For: Agreement  
 38.307 v17.5.0 CR-0099 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209307 TP for 37.717-00-00 to update the editorial errors**

*Type: pCR For: Approval  
 37.717-00-00 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 8.20 Band combinations for Uu and V2X con-current operation

**[103-e][118] NR\_LTE\_V2X\_PC5\_combos, AI 8.20 – Yuan Gao**

**R4-2210253 Email discussion summary for [103-e][118] NR\_LTE\_V2X\_PC5\_combos**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.20.1 Rapporteur Input (WID/TR/CR)

**R4-2208191 Draft CR for TS 38.101-1, Introduce new band combination of V2X\_n5A-n47A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208192 Draft CR for TS 38.101-3, Introduce new band combinations of V2X\_n5A\_47A and V2X\_5A\_n47A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208193 Big CR for TS 38.101-1, Introduce new band combinations of V2X con-current operation**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1063 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208194 Big CR for TS 38.101-3, Introduce new band combinations of V2X con-current operation**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0713 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208660 TR37.875 v0.8.0, Band combinations of V2X con-current operation**

*Type: draft TR For: Agreement  
 37.875 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

#### 8.20.2 UE RF requirements

**R4-2207629 Calculation of MSD for V2X\_n5A-n47A, V2X\_5A\_n47A and V2X\_n5A\_47A and accompanying TP**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Presents MSD for V2X\_n5A-n47A, V2X\_5A\_n47A and V2X\_n5A\_47A and details a TP for these band combinations.

**Decision:** The document was **not treated**.

**R4-2208190 TP on coexistence study of V2X\_n5A-n47A, V2X\_5A\_n47A and V2X\_n5A\_47A**

*Type: pCR For: Approval  
 37.875 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2209355 Draft CR for 38.101-1 to update the requirements for V2X con-current band combinations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 8.21 Adding channel bandwidth support to existing NR bands

**[103-e][119] NR\_bands\_R17\_BWs, AI 8.21 – Dominique Evereare**

**R4-2210254 Email discussion summary for [103-e][119] NR\_bands\_R17\_BWs**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.21.1 Rapporteur Input (WID/TR/CR)

**R4-2208903 Big CR to TS 38.104: Adding channel BW support in existing NR bands**

*Type: CR For: Agreement  
 38.104 v17.5.0 CR-0381 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This big CR will capture all draft CRs endorsed in RAN4#102-e meeting

**Decision:** The document was **not treated**.

**R4-2208904 Big CR to TS 38.101-1: Adding channel BW support in existing NR bands**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1080 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This big CR will capture all draft CRs endorsed in RAN4#102-e meeting

**Decision:** The document was **not treated**.

#### 8.21.2 UE RF requirements

##### 8.21.2.1 Addition of bandwidth and Tx/Rx requirements

**R4-2207708 Clarification on UE behavior to new channel bandwidth(s) introduced in later release during initial access**

*Type: discussion For: Discussion  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **not treated**.

**R4-2207709 Clarification on UE behavior to new channel bandwidth(s) introduced in later release during initial access**

*Type: CR For: Agreement  
 38.307 v17.5.0 CR-0097 rev Cat: F (Rel-17)  
  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **not treated**.

**R4-2208000 CR for 38.101-1 Rel17 Minor Correction for n48 NS\_27 30MHz inequality**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1058 rev Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208005 n28 25MHz AMPR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208006 n28 25MHz REFSENS**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208007 n26 25/30MHz REFSENS and Coexistence**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208402 Draft CR for 38.101-1- Addition of 25 MHz for n28 and n83**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208852 Discussion on n26 supporting 25\_30MHz**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2209246 Discussion on adding 25MHz channel bandwidth in Band n28**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209247 Discussion on REFSENS evaluation for band n28 supporting 25MHz**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209248 Draft CR for 38.101-1 on adding 25MHz channel bandwidth for n28 and n83**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2210013 Draft CR for 38.101-1: Addition of 5, 25, 35 and 45 MHz for n41**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2210234 Band n28 25MHz REFSENS**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

**R4-2210235 Adding 25MHz and 30MHz CBW to Band n26**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

##### 8.21.2.2 NR-U 100MHz bandwidth

**R4-2207714 NR-U 100 MHz channel bandwidth for n46**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-16)  
  
 Source: Charter Communications, Inc*

**Decision:** The document was **not treated**.

**R4-2207995 Finalizing UE requirement for 100MHz CBW in NRU bands**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution identify all the requirements that can be finalized for 100MHz CBW for the UE side. Notably applicable SEM mask, channelization, ULCA, MPR and A-MPR for each NR-U bands.

**Decision:** The document was **not treated**.

**R4-2208036 NR-U 100 MHz channelization in band n46**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208039 Views on NR-U 100MHz in n46**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **withdrawn**.

**R4-2208043 Views on NR-U 100MHz in n46**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2209320 NR-U Introduction of 100 MHz CBW**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209644 NR-U Triple Punctured Channel SEM for 100 MHz Bandwidth**

*Type: discussion For: Approval  
 38.104 v CR- rev Cat: (Rel-17)  
  
 Source: CableLabs, Charter Communications*

**Decision:** The document was **not treated**.

#### 8.21.3 BS RF requirements

**R4-2208403 Draft CR for 38.104- Addition of 25 MHz for n28 and n83**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2209249 Draft CR for 38.104 on adding 25MHz channel bandwidth for n28 and n83**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2210012 Draft CR to TS 38.104: Adding new channel BWs in band n41**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

### 8.22 Introduction of bandwidth combination set 4 (BCS4) for NR

**[103-e][120] NR\_BCS4-Core, AI 8.22 – Peng Zhang**

**R4-2210255 Email discussion summary for [103-e][120] NR\_BCS4-Core**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.22.1 Rapporteur Input (WID/TR/CR)

#### 8.22.2 UE RF requirements for BCS4/BCS5

**R4-2208454 Discussion on the reduced MSD configurations for harmonic and cross-band isolation for NR CA**

*Type: discussion For: Discussion  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2208676 Discussion on maximum aggregated channel bandwidth**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208681 Discussion on improvement on MSD for harmonic and cross-band isolation for NR CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208858 Discussion on the max aggregated CBW of intra-band CA for BCS4/5**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209358 Discussion on simplifying extended MSD table for SUL**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209359 CR for 38.101-3 to clarify that BCS4 and BCS5 can't be reported together**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1094 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

**R4-2209360 CR for 38.101-1 to introduce the missing requirements for BCS4**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0723 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

**R4-2209420 CR for 38.101-3 to clarify that BCS4 and BCS5 can't be reported together**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0724 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209421 CR for 38.101-1 to introduce the missing requirements for BCS4**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1098 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 8.23 High-power UE operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, Band 13, Band n5, Band n13, and Band n71

**[103-e][121] LTE\_NR\_HPUE\_FWVM, AI 8.23 – Man Hung Ng**

**R4-221256 Email discussion summary for [103-e][121] LTE\_NR\_HPUE\_FWVM**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.23.1 General

**R4-2209105 Release Independence aspects of high-power UE operation for fixed-wireless/vehicle-mounted use cases**

*Type: other For: Approval  
 Source: Nokia*

**Decision:** The document was **not treated**.

#### 8.23.2 Coexistence study

#### 8.23.3 UE RF requirements

**R4-2210155 Draft CR for 38.101-1: Addition of PC1 for n26, n71 and n85**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: T-Mobile USA Inc.*

**Decision:** The document was **not treated**.

### 8.24 High power UE (power class 2) for NR inter-band Carrier Aggregation with 2 bands downlink and 2 bands uplink

**[103-e][122] NR\_PC2\_SUL\_CA\_lowMSD, AI 8.24, 8.26 – Bo Liu**

**R4-2210257 Email discussion summary for [103-e][122] NR\_PC2\_SUL\_CA\_lowMSD**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.24.1 Rapporteur Input (WID/TR/CR)

**R4-2208335 Big CR to 38.101-1 Introduce RF requirements for HPUE CA with 2 bands downlink and x bands uplink (x =1,2)**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1065 rev Cat: B (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

big CR for email approval

**Decision:** The document was **not treated**.

**R4-2208643 Draft TR 38.841 v1.1.0: High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x =1,2)**

*Type: draft TR For: Agreement  
 38.841 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Chinatelecom Cloud*

**Abstract:**

draft TR for email approval

**Decision:** The document was **not treated**.

#### 8.24.2 UE RF requirements

**R4-2207722 TP for TR 38.841 Addition of n77 PC1.5 UL for CA\_n12-n77**

*Type: pCR For: Approval  
 38.841 v1.0.1 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207723 TP for TR 38.841 Addition of n77 PC1.5 UL for CA\_n14-n77**

*Type: pCR For: Approval  
 38.841 v1.0.1 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207724 TP for TR 38.841 Addition of n77 PC1.5 UL for CA\_n29-n77**

*Type: pCR For: Approval  
 38.841 v1.0.1 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207725 TP for TR 38.841 Update for n77 PC2 UL and Addition of n77 PC1.5 UL for CA\_n30-n77**

*Type: pCR For: Approval  
 38.841 v1.0.1 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2207935 TP for TR 38.841: CA\_n13-n77**

*Type: pCR For: Approval  
 38.841 v1.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2207936 TP for TR 38.841: CA\_n5-n77**

*Type: pCR For: Approval  
 38.841 v1.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2207937 TP for TR 38.841: CA\_n2-n77**

*Type: pCR For: Approval  
 38.841 v1.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2207939 Draft CR for 38.101-1: Addition PC1.5 single uplink for downlink combinations**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2209182 On Power Class Ambiguity for NR inter-band CA**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209183 CR to TS38101-1 Resolving power class ambiguity for NR Inter-band CA**

*Type: draftCR For: Agreement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2210005 Draft CR for 38.101-1: Addition of PC2 and PC1.5 for CA\_n41-n71**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2210006 Draft CR for 38.101-1: Addition of n77 PC1.5 for CA\_n66-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2210007 Draft CR for 38.101-1: Addition of PC2 and PC1.5 for CA\_n25-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2210008 Draft CR for 38.101-1: Addition of PC2 and PC1.5 n41 for CA\_n41(3A) and CA\_n41(A-C)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2210009 Draft CR for 38.101-1: Addition of n77 UL PC2 and PC1.5 for DL CA\_n77(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2210010 Draft CR for 38.101-1: Addition of PC2 and PC1.5 for CA\_n71-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

**R4-2210011 Draft CR for 38.101-1: Addition of PC2 and PC1.5 for CA\_n41-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

### 8.25 High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band

#### 8.25.1 Rapporteur Input (WID/TR/CR)

**R4-2207698 Revised WID on High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band**

*Type: WID revised For: Approval  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R4-2207699 Big CR on introduction of completed PC2 for EN-DC with 1 LTE band + 1 NR TDD band**

*Type: CR For: Approval  
 38.101-3 v17.5.0 CR-0709 rev Cat: B (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R4-2207700 TR 37.826 v1.2.0 ENDC\_UE\_PC2\_R17\_NR\_TDD**

*Type: draft TR For: Agreement  
 37.826 v1.2.0 CR- rev Cat: (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **not treated**.

#### 8.25.2 UE RF requirements

**R4-2208427 TP for TR 37.826: update PC2 support for DC\_3-3\_n78, DC\_7-7\_n78**

*Type: pCR For: Approval  
 37.826 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

### 8.26 Power Class 2 UE for NR inter-band CA and SUL configurations with x (x>2) bands DL and y (y=1, 2) bands UL

#### 8.26.1 Rapporteur Input (WID/TR/CR)

**R4-2209177 draft TR 38.842 v0.4.0**

*Type: draft TR For: Agreement  
 38.842 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

**R4-2209178 Revised WID on NR\_UE\_PC2\_R17\_CADC\_SUL\_xBDL\_yBUL**

*Type: WID revised For: Agreement  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

**R4-2209179 Big CR to 38.101-1 Introduce RF requirements for HPUE CA**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1087 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

#### 8.26.2 UE RF requirements

**R4-2207726 DraftCR 38.101-1 Addition of PC2 CA Combinations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2208008 CA\_n30-n77 MSD NRCA PC2\_R17\_2BDL\_1BUL TR 38.842**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **withdrawn**.

### 8.27 Power Class 2 for EN-DC with xLTE band + yNR DL with 1LTE+1(TDD) NR UL band (x= 2, 3, 4, y=1; x=1, 2, y=2)

**[103-e][123] NR\_PC2\_EN-DC, AI 8.25, 8.27 – Per Lindell**

**R4-2210258 Email discussion summary for [103-e][123] NR\_PC2\_EN-DC**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.27.1 Rapporteur Input (WID/TR/CR)

**R4-2209545 Revised WID EN-DC PC2**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

Revised WID EN-DC PC2

**Decision:** The document was **not treated**.

**R4-2209550 big CR 38.101-3 EN-DC PC2**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0726 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

big CR 38.101-3 EN-DC PC2

**Decision:** The document was **not treated**.

**R4-2209554 TR 37.827 v0.5.0 ENDC\_PC2\_R17\_xLTE\_yNR**

*Type: draft TR For: Agreement  
 37.827 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 37.827 v0.5.0 ENDC\_PC2\_R17\_xLTE\_yNR

**Decision:** The document was **not treated**.

#### 8.27.2 UE RF requirements

**R4-2207938 Draft CR for 38.101-1: Addition PC1.5 single uplink for 3DL combinations**

*Type: draftCR For: Approval  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

**R4-2208451 TP for TR 37.827: update PC2 support for DC\_3-3-7-7\_n78**

*Type: pCR For: Approval  
 37.827 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2208452 TP for TR 37.827: update PC2 support for DC\_3-3-8\_n78, DC\_7-7-8\_n78**

*Type: pCR For: Approval  
 37.827 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2208453 TP for TR 37.827: update PC2 support for DC\_3-3-7-7-8\_n78**

*Type: pCR For: Approval  
 37.827 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

### 8.28 High power UE for NR TDD intra-band carrier aggregation in frequency range FR1

#### 8.28.1 Rapporteur Input (WID/TR/CR)

**R4-2209755 Big CR for TS 38.101-1: Introduce high power UE for NR TDD intra-band CA in FR1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1111 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209756 Revised WID for high power UE for NR TDD intra-band CA in FR1**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Abstract:**

Reserved WID to reflect the progress in RAN4#103e.

**Decision:** The document was **not treated**.

#### 8.28.2 UE RF requirements

**R4-2209754 On requirements for high power UE for NR TDD intra-band CA in FR1**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 8.29 Increasing UE power high limit for CA and DC

**[103-e][124] NR\_Power\_Limit\_CA\_DC, AI 8.29 – Gene Fong**

**R4-221259 Email discussion summary for [103-e][124] NR\_Power\_Limit\_CA\_DC**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.29.1 General

**R4-2209184 Views on the solutions for increasing the power limit**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.29.2 Feasibility and impact study

**R4-2208426 Scalability and PC per band within a CA for the sum method**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208429 Consideration on Increasing UE power high limit for CA and DC**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208605 The impact of the increasing UE power high limit for CA and DC**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208748 Draft LS to RAN2 on increasing UE power high limit for CA and DC**

*Type: LS out For: Approval  
 to RAN2  
 Source: Ericsson*

**Abstract:**

Draft LS to RAN2 on use of existing signaling mechanism to increase the power limit for CA and DC

**Decision:** The document was **not treated**.

**R4-2208851 Discussion on increasing UE power high limit for CA and DC**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2209377 R17 UE power class high limit**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 8.29.3 UE RF requirements

**R4-2207678 Further views on increasing UE power high limit for CA and DC**

*Type: other For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207906 Increased MOP for CA and DC**

*Type: other For: Approval  
 Source: InterDigital Communications*

**Abstract:**

In this contribution we are discussing the RF requirements impact for UE Tx and suggest UE capability signaling solutions.

**Decision:** The document was **not treated**.

**R4-2207990 Finalizing increased power for PC2 inter-band CA**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

this contribution focuses on PC2 increased power cases and points at the relevant 2TX cases in one band. Proposals are made for PCmax equation implementation and signaling principle with a per band power class to enable a generic approach.

**Decision:** The document was **not treated**.

**R4-2208336 Views on increasing UE output power for CA and DC**

*Type: other For: Approval  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2208604 Further discussion on the RF requirements of the increasing UE power high limit for CA and DC**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208749 Amendment of the power class for CA and DC band combinations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to correct application of the indicated BC power class for DC and CA

**Decision:** The document was **not treated**.

**R4-2209090 Discussion on increasing UE maximum power high limit**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209327 Draft CR for TS 38.101-1: Enable PC2 inter-band UL CA increasing UE power high limit feature**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2210198 Increasing the maximum power limit for inter-band UL CA**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1113 rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated, Verizon, Vodafone, Deutsche Telekom, US Cellular, T-Mobile USA, AT&T, China Unicom, NTT DOCOMO, INC., China Telecom, Nokia, Nokia Shanghai Bell, CableLabs*

**Decision:** The document was **not treated**.

**R4-2210199 Increasing the maximum power limit for inter-band UL DC**

*Type: CR For: Approval  
 38.101-3 v17.5.0 CR-0730 rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated, Verizon, Vodafone, Deutsche Telekom, US Cellular, T-Mobile USA, AT&T, China Unicom, NTT DOCOMO, INC., China Telecom, Nokia, Nokia Shanghai Bell, CableLabs*

**Decision:** The document was **not treated**.

### 8.30 Additional NR bands for UL-MIMO

**[103-e][125] LTE\_NR\_Other\_WI, AI 8.30, 8.31, 10.7, 10.8, 10.8.1 – Jin Wang**

**R4-2210260 Email discussion summary for [103-e][125] LTE\_NR\_Other\_WI**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.30.1 Rapporteur Input (WID/TR/CR)

**R4-2209741 Big CR for TS38.101-1: introduction of new UL MIMO bands**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1107 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

Reserved big CR to capture the agreed band combinations in RAN4#103e.

**Decision:** The document was **not treated**.

**R4-2209742 revised WID Additional NR bands for UL-MIMO in Rel-17**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Abstract:**

Reserved WID to reflect the progress in RAN4#103e.

**Decision:** The document was **not treated**.

**R4-2209743 Big CR for TS 38.307: release independent for UL MIMO bands (R17)**

*Type: CR For: Agreement  
 38.307 v17.5.0 CR-0100 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.30.2 UE RF requirements

**R4-2207992 Draft CR to TS 38.101-1 V17.5.0 on introducing missing MPR for NR-U PC5 UL MIMO for n46, n96 and n102**

*Type: draftCR For: Agreement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

Introducing missing MPR for NR-U UL MIMO for band n46, n96 and n102 and eliminate duplication of inter-band power class with NRU in both NR and NRU sections.

**Decision:** The document was **not treated**.

**R4-2208388 Draft CR for n95, n97, n98 and n28 UL MIMO**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

### 8.31 Simultaneous Rx/Tx band combinations for CA, SUL, MR-DC and NR-DC

#### 8.31.1 Rapporteur Input (WID/TR/CR)

**R4-2209014 Big CR to 38.101-1: update of simultaneous RxTx capability for band combinations**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1081 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209015 Big CR to 38.101-2: update of simultaneous RxTx capability for band combinations**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0458 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209016 Big CR to 38.101-3: update of simultaneous RxTx capability for band combinations**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0719 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209251 TR 38.839 v0.3.0**

*Type: draft TR For: Agreement  
 38.839 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.31.2 Identify simultaneous Rx/Tx capabilities for band combinations

**R4-2207693 draft CR to 38.101-1 on new column for mandatory simultaneous RxTx**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207694 draft CR to 38.101-3 on new column for mandatory simultaneous RxTx**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

#### 8.31.3 FR2 band combinations with simultaneous Rx/Tx

#### 8.31.4 Define rules for simultaneous Rx/Tx capabilities

**R4-2208679 Simultaneous Rx/Tx capability for FR1+FR1 FDD-TDD band combination**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208850 Continue discussion on simultaneous RxTx**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2208854 Draft CR to 38101-1-h50 for SUL combos supporting simultaneous RxTx correction**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2208873 Draft CR for clarification on per band pair simultaneous RxTx capability for DC TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: NTT DOCOMO, INC*

**Abstract:**

This CR is resubmission of endorsed draft CR R4-2206487 which was not implemented correctly in TS 38.101-1 x17.5.0.

**Decision:** The document was **not treated**.

**R4-2209740 TP for TR 38.839: update for simultaneous RxTx capability**

*Type: pCR For: Approval  
 38.839 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

## 9 Rel-17 non-spectrum related work items for NR

### 9.1 Multiple Input Multiple Output (MIMO) Over-the-Air (OTA) requirements for NR UEs

#### 9.1.1 General

#### 9.1.2 Performance requirements

##### 9.1.2.1 Lab alignment for FR1

##### 9.1.2.2 Performance Requirements for FR1

##### 9.1.2.3 Performance Requirements for FR2

##### 9.1.2.4 MU assessment for FR1 and FR2

#### 9.1.3 Testing methodologies

##### 9.1.3.1 Testing parameters for Performance

##### 9.1.3.2 Optimization of test methodologies

##### 9.1.3.3 Channel model validation

### 9.2 Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC)

#### 9.2.1 General and work plan

#### 9.2.2 Test methodology maintenance

##### 9.2.2.1 SA test methodology

##### 9.2.2.2 EN-DC test methodology

##### 9.2.2.3 UE with multiple antennas test methodology

##### 9.2.2.4 Test time reduction

#### 9.2.3 Performance requirements

##### 9.2.3.1 Framework for lab alignment and requirements

##### 9.2.3.2 SA requirements

##### 9.2.3.3 EN-DC requirements

### 9.3 RF requirements enhancement for NR frequency range 1 (FR1)

#### 9.3.1 RF core requirement maintenance

**[103-e][107] NR\_RF\_FR1\_enh\_maintenance\_IntraHPUE, AI 9.3.1, 8.28 – Ye Liu**

**R4-2210243 Email discussion summary for [103-e][107] NR\_RF\_FR1\_enh\_maintenance\_IntraHPUE**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207865 CR: Update of UE capability and RRC parameter name for Tx switching**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1051 rev Cat: F (Rel-17)  
  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2208598 Removing square brackets for Intra-band NC UL CA requirments**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209744 Big CR to TS 38.307: intra-band CA with MIMO requirements (R17)**

*Type: CR For: Agreement  
 38.307 v17.5.0 CR-0101 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209745 CR to TS 38.101-1: update of signaling for Tx switching (R17)**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1108 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.3.2 RRM core requirement maintenance

**[103-e][205] NR\_RF\_FR1\_enh\_RRM, AI 9.3.2, 9.3.3 – Han Jing**

**R4-221277 Email discussion summary for [103-e][205] NR\_RF\_FR1\_enh\_RRM**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 9.3.3 RRM performance requirements

**R4-2207867 Draft CR: Test case for DL interruptions at 2Tx-2Tx switching between two uplink carriers in FDD+TDD and TDD+TDD inter-band CA**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2208389 Draft CR for introducing test cases for DL Interruptions at UE switching between two uplink bands with two transmit antenna connectors for UL inter-band CA (section A.6.5.7.1C, A.6.5.7.2C)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208958 Test case for R17 Tx switching enhancement**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

### 9.4 NR RF requirement enhancements for frequency range 2 (FR2)

#### 9.4.1 General

**[103-e][128] NR\_RF\_FR2\_enh2\_Part\_1, AI 9.4.1, 9.4.2 – Petri Vasenkari**

**R4-2210263 Email discussion summary for [103-e][128] NR\_RF\_FR2\_enh2\_Part\_1**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 9.4.2 UE RF requirements for inter-band CA

**R4-2208545 PC2 RF requirements for inter-band CA\_n257A\_n259A based on IBM**

*Type: discussion For: Discussion  
 Source: LG Electronics, KT, LG Uplus*

**Abstract:**

It discusses PC2 RF requirements for inter-band CA\_n257A\_n259A based on IBM.

**Decision:** The document was **not treated**.

**R4-2208546 CR on FR2-1 PC2 in n259 for supporting PC2 CA\_n257-n259**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1068 rev Cat: B (Rel-17)  
  
 Source: LG Electronics, KT, LG Uplus*

**Abstract:**

It is CR to introduce FR2-1 PC2 RF requirements in n259 for supporting PC2 CA\_n257-n259.

**Decision:** The document was **withdrawn**.

**R4-2208644 CR on FR2-1 PC2 in n259 for supporting PC2 CA\_n257-n259**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0456 rev Cat: B (Rel-17)  
  
 Source: LG Electronics, KT, LG Uplus*

**Abstract:**

It is CR to introduce FR2-1 PC2 RF requirements in n259 for supporting PC2 CA\_n257-n259.

**Decision:** The document was **not treated**.

**R4-2209107 38.101-1: Introduction of 900 MHz to 5G NR for RMR**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1083 rev Cat: B (Rel-17)  
  
 Source: Nokia, UIC*

**Decision:** The document was **not treated**.

##### 9.4.2.1 Inter-band DL CA requirements

###### 9.4.2.1.1 UE relaxation values for DL CA with IBM for CA\_n258-n261

**R4-2207637 On delta(RIB) for n258+n261 DL inter-CA**

*Type: other For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

delta(RIB) proposal for n258+n261 based on IBM assumption

**Decision:** The document was **not treated**.

**R4-2207638 CR to 38.101-2: FR2+FR2 IBM DLCA for PC1/2/5**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0451 rev Cat: B (Rel-17)  
  
 Source: Qualcomm, Nokia, Verizon, LGE*

**Abstract:**

Cat B feature CR to introduce missing power classes and band combinations that have been enabled for FR2 ULCA

**Decision:** The document was **not treated**.

**R4-2207710 UE DL requirements for IBM**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision:** The document was **not treated**.

**R4-2208309 Discussion on UE relaxation values for inter-band DL CA for CA\_n258-n261**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Decision:** The document was **not treated**.

**R4-2208484 EIS requirements for IBM based DL CA\_n258-n261**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208607 Discussion on requirements of n258-n261**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208682 Discussion on relaxation value FR2 inter-band UL CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208683 Discussion on IBM inter-band DL CA\_n258-n261**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208750 Introduction of requirements for DL inter-band CA for CA\_n258-n261**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Sony*

**Abstract:**

Draft CR to introduce requirements for DL CA based on CBM within the same and different frequency groups

**Decision:** The document was **not treated**.

**R4-2208862 Discussion on delta RIB for CA\_n258-n261 based on IBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209106 Addition of downlink CA\_n258-n261 configuration**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0459 rev Cat: B (Rel-17)  
  
 Source: Nokia, Qualcomm Inc*

**Decision:** The document was **not treated**.

**R4-2209321 UE relaxation for CA\_n258-n261 with IBM**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209427 R17 FR2 Inter-band DL CA requirements for n258+n261**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

##### 9.4.2.2 Inter-band UL CA requirements

###### 9.4.2.2.1 UL CA MPR, relaxation values and Pcmax handling for CA\_n257A-n259A and CA\_n260-n261

**R4-2207635 On MPR and delta(TIB) for FR2+FR2 ULCA**

*Type: other For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

We share our proposals for both delta(TIB) and MPR along with the underlying reasoning and analysis.

**Decision:** The document was **not treated**.

**R4-2207636 CR to 38.101-2 FR2+FR2 ULCA Feature**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0450 rev Cat: B (Rel-17)  
  
 Source: Qualcomm, Nokia, Verizon, LGE*

**Abstract:**

Cat B feature CR

**Decision:** The document was **not treated**.

**R4-2207711 UE UL CA requirements based on IBM**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision:** The document was **not treated**.

**R4-2208311 Discussion on inter-band UL CA for PC1 CA\_n260-n261 and PC5 CA\_n257A-n259A**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Decision:** The document was **not treated**.

**R4-2208485 EIRP requirements for IBM based UL CA for FWA**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208606 Discussion on FR2 inter-band UL CA**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208863 RF requirements for inter-band UL CA\_n260-n261 and CA\_n257-n259 based on IBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209429 R17 FR2 Inter-band UL CA requirements**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2210192 TIB for inter-band UL CA with IBM**

*Type: other For: Approval  
 Source: NTT DOCOMO, INC.*

**Abstract:**

To provide PC1/3/5 TIB for FR2 inter-band UL CA.

**Decision:** The document was **not treated**.

**R4-2210193 CR to TS38.101-2 TIB for inter-band UL CA**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0464 rev Cat: B (Rel-17)  
  
 Source: NTT DOCOMO, INC.*

**Abstract:**

CR to provide PC1/3/5 TIB for FR2 inter-band UL CA.

**Decision:** The document was **not treated**.

#### 9.4.3 UL gaps for self-calibration and monitoring

**[103-e][129] NR\_RF\_FR2\_enh2\_Part\_2, AI 9.4.3, 9.4.6.3, 9.4.7.2 – Yang Tang**

**R4-2210264 Email discussion summary for [103-e][129] NR\_RF\_FR2\_enh2\_Part\_2**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 9.4.3.1 UE Tx power management

**R4-2207661 On RF requirements for UL Gap**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207706 draft CR on UL Gap RF requirements**

*Type: draftCR For: Approval  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207814 UL gaps for Tx power management RF aspect**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208608 Discussion on UL gap for Tx power management**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208751 UE Tx power management test case for MPE compliance**

*Type: other For: Approval  
 Source: Ericsson, Sony*

**Abstract:**

In this contribution we make proposals on the Tx power manangement for MPE and P-MPR in particular

**Decision:** The document was **not treated**.

**R4-2208875 Draft CR for UL gap for Tx power management RF aspect**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia Denmark*

**Decision:** The document was **not treated**.

**R4-2208876 Requirements and test cases of UE FR2 UL Gap for UE Tx power enhancement**

*Type: discussion For: (not specified)  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia Denmark*

**Decision:** The document was **not treated**.

**R4-2209425 R17 FR2 UL gap for power management**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

##### 9.4.3.2 Coherent UL-MIMO

**R4-2207815 UL gaps for coherent UL MIMO**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209145 Draft CR to 38.101-2 on requirements for coherent UL MIMO**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209146 Discussion on UL coherent MIMO**

*Type: discussion For: Approval  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209153 FR2 UL coherent MIMO**

*Type: discussion For: Approval  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209154 Draft CR to add ‘Annex G Difference of relative phase and power errors’ for FR2 UL coherent MIMO**

*Type: draftCR For: Endorsement  
 38.101-2 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209155 Draft CR to add ‘Annex G Difference of relative phase and power errors’ for FR2 UL coherent MIMO**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209156 Draft CR to add ‘Annex G Difference of relative phase and power errors’ for FR2 UL coherent MIMO**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

#### 9.4.4 DC location for intra-band UL CA for both FR2 and FR1

**[103-e][130] NR\_RF\_FR2\_enh2\_Part\_3, AI 9.4.4, 9.4.5 – Sanjun Feng**

**R4-2210265 Email discussion summary for [103-e][130] NR\_RF\_FR2\_enh2\_Part\_3**

*Type: other For: Information  
 Source: Moderator (vivo)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207660 Offset and DL CA handling for DC location**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207679 Further views on DC location for intra-band UL CA**

*Type: other For: Approval  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208385 Handling of multiple DC locations for intra-band CA**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208387 [Draft] Reply on LS Reply LS on DC location for >2CC**

*Type: LS out For: Approval  
 to RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208609 Discussion on remaining issue on DC location**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208610 LS on DC location for intra-band CA**

*Type: LS out For: Approval  
 to RAN2  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209166 Further study on DC location reporting**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209424 R17 FR2 DC reporting**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 9.4.5 CA BW classes

##### 9.4.5.1 New FR2 CA BW Classes to enable CA operation for mix of 100 and 200 MHz CCs

**R4-2207680 Further views on new FR2 CA BW classes**

*Type: other For: Discussion  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208314 Discussion on FR2 mixed-CC CA BW class**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Decision:** The document was **not treated**.

**R4-2208486 Discussion on CA BW class of mixed 100MHz and 200MHz CCs**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208752 Draft LS to RAN2 on FR2 bandwidth classes covering up to 2400 MHz aggregated bandwidth with mixed carrier bandwidths**

*Type: LS out For: Approval  
 to RAN2  
 Source: Ericsson, Verizon*

**Abstract:**

In this contribution we propose to adopt CA BW classes up to 2400 MHz and provide a draft LS to RAN2 to introduce these in 38.331

**Decision:** The document was **not treated**.

**R4-2208753 FR2 CA BW classes up to 2400 MHz aggregated BW with mixed channel bandwidths**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson, Verizon*

**Abstract:**

Draft CR to introduce FR2 CA BW classes up to 2400 MHz aggregated BW with mixed channel bandwidths.

**Decision:** The document was **not treated**.

**R4-2208864 Discussion on FR2 new CA BW classes**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208865 LS to introduce new FR2 CA BW Classes**

*Type: LS out For: Approval  
 to RAN2  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208866 Draft CR for TS 38.101-2 to introduction of FR2 new CA BW classes**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209617 Discussion on FR2 CA BW class with aggregated BW up to 1600MHz**

*Type: discussion For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 9.4.6 RRM core requirements

##### 9.4.6.1 General

##### 9.4.6.2 Inter-band UL CA for IBM

##### 9.4.6.3 UL gaps for self-calibration and monitoring

**R4-2207816 UL gaps for Tx power management RRM aspect**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207817 Draft CR for UL gap for Tx power management RRM aspect**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208590 Discussion on remaining aspects for UL Gaps (RRM)**

*Type: discussion For: Agreement  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208591 CR for UL gaps for Tx power management**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208787 LS on priority for PHR including MPE indication**

*Type: LS out For: Approval  
 to RAN2  
 Source: Nokia Corporation*

**Decision:** The document was **not treated**.

**R4-2210126 Discussion on UL gaps prioritization over critical UL signals**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution, we discuss prioritization of CSI reprot and positioning report w.r.t UL gaps

**Decision:** The document was **not treated**.

**R4-2210127 Draft CR on UL gaps for BPS**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to update the prioritizatiuon rules for UL gaps

**Decision:** The document was **not treated**.

#### 9.4.7 RRM performance requirements

##### 9.4.7.1 Inter-band UL CA for IBM

##### 9.4.7.2 UL gaps for self-calibration and monitoring

**R4-2208595 Discussion on test for UL gaps for Tx power management**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208778 Discussion on performance requirements of UL gap for Tx power management**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2210129 Scope of the RRM test cases for UL gaps for TX power management**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discssion on the scope of test cases needed for this feature

**Decision:** The document was **not treated**.

### 9.5 NR repeater

#### 9.5.1 General requirement maintenance

#### 9.5.2 Conductive RF core requirement maintenance

#### 9.5.3 Radiated RF core requirement maintenance

#### 9.5.4 EMC core requirement maintenance and performance requirement

#### 9.5.5 RF Conformance testing

##### 9.5.5.1 General

###### 9.5.5.1.1 Stimulus signal /Test models

###### 9.5.5.1.2 Test configurations

###### 9.5.5.1.3 Others

##### 9.5.5.2 Conductive conformance Testing

###### 9.5.5.2.1 Transmitted power related requirements

###### 9.5.5.2.2 Emission requirements

###### 9.5.5.2.3 Others

##### 9.5.5.3 Radiated conformance Testing

###### 9.5.5.3.1 Transmitted power related requirements

###### 9.5.5.3.2 Emission requirements

###### 9.5.5.3.3 Others

### 9.6 Introduction of DL 1024QAM for NR FR1

#### 9.6.1 UE RF requirements maintenance

#### 9.6.2 BS TX RF requirements maintenance

#### 9.6.3 BS RF conformance testing

#### 9.6.4 Demodulation and CSI requirements

##### 9.6.4.1 PDSCH requirements

##### 9.6.4.2 SDR requirements

##### 9.6.4.3 CQI requirements

### 9.7 Enhancement for NR high speed train scenario in FR1

#### 9.7.1 RRM core requirement maintenance

#### 9.7.2 RRM performance requirements

#### 9.7.3 UE demodulation requirements (38.101-4)

### 9.8 NR support for high speed train scenario in FR2

#### 9.8.1 UE RF core requirement maintenance

**[103-e][108] NR\_HST\_FR2\_maintenance, AI 9.8.1 – He Wang**

**R4-2210244 Email discussion summary for [103-e][108] NR\_HST\_FR2\_maintenance**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 9.8.1.1 UE Tx requirements

##### 9.8.1.2 UE Rx requirements

**R4-2208504 Discussion on Spherical Coverage requirements for FR2 HST**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 9.8.2 RRM core requirement maintenance

##### 9.8.2.1 General

##### 9.8.2.2 RRC Idle/Inactive and connected state mobility requirements

##### 9.8.2.3 Timing requirements

##### 9.8.2.4 Signalling characteristics requirements

##### 9.8.2.5 Measurement procedure requirements

#### 9.8.3 RRM performance requirements

#### 9.8.4 Demodulation requirements

##### 9.8.4.1 UE demodulation requirements

###### 9.8.4.1.1 PDSCH requirements under Uni-directional scenario

###### 9.8.4.1.2 PDSCH requirements under Bi-directional scenario

##### 9.8.4.2 BS demodulation requirements

###### 9.8.4.2.1 PUSCH requirements

###### 9.8.4.2.2 PUSCH with UL timing adjustment requirements

###### 9.8.4.2.3 PRACH requirements

### 9.9 Further RRM enhancement for NR and MR-DC

**[103-e][206] NR\_RRM\_enh2\_1, AI 9.9, 9.9.1, 9.9.1.1, 9.9.2.1 – Jerry Cui**

**R4-221278 Email discussion summary for [103-e][206] NR\_RRM\_enh2\_1**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207766 Work plan for R17 FeRRM performance part**

*Type: Work Plan For: Approval  
 Source: Apple*

**Decision:** The document was **not treated**.

#### 9.9.1 RRM core requirement maintenance

**R4-2208092 38.133 CR on introduction of SRS antenna port switching (resubmission)**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2296 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.9.1.1 SRS antenna port switching

**R4-2207767 CR on SRS antenna port switching in TS38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2289 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208090 Interruption requirements at SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208093 draftCR on interruptions at SRS antenna switching**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208313 Discussion on interruption due to SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2208316 CR on interruption limitation due to SRS antenna switching**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2310 rev Cat: F (Rel-17)  
  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2208935 CR on SRS antenna port switching requirements 36.133**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7154 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208936 Draft CR on SRS antenna port switching requirements 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **withdrawn**.

**R4-2209133 Draft CR on SRS antenna port switching requirements 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2355 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210130 Remaining issue in SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Remianing issues of SRS antenna port switching are discussed

**Decision:** The document was **not treated**.

##### 9.9.1.2 HO with PSCell

**[103-e][207] NR\_RRM\_enh2\_2, AI 9.9.1.2, 9.9.2.2 – Qian Yang**

**R4-221279 Email discussion summary for [103-e][207] NR\_RRM\_enh2\_2**

*Type: other For: Information  
 Source: Moderator (vivo)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207769 On remaining issues of HO with PScell**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207770 CR on HO with PSCell for NE-DC to NE-DC in TS38.133 R17**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2290 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207771 CR on HO with PSCell for EN-DC to EN-DC in TS36.133 R17**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7149 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208170 Discussion on issues for requirement of HO with PSCell**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208171 Completing requirement of HO with PSCell**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2301 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208500 Correction on HO with PSCell requirements in 38133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2323 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction on HO with PSCell requirements in 38.133

**Decision:** The document was **not treated**.

**R4-2208501 Correction on HO with PSCell requirements in 36133**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7153 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction on HO with PSCell requirements in 36.133

**Decision:** The document was **not treated**.

**R4-2208530 CR on Handover with PSCell**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2326 rev Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208937 CR on HO with PSCell requirements**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2349 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209494 CR on R17 core requirements for HO with PSCell**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2379 rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2210131 Discussion RRM requirements for handover with PSCell for NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

HO with PSCell requirements for NR-U are discussed

**Decision:** The document was **not treated**.

**R4-2210132 CR on requirements for HO with PSCell when PSCell is on CCA in EN-DC to EN-DC scenario**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7158 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to introduce HO with PSCell requirements for PSCell with CCA

**Decision:** The document was **not treated**.

**R4-2210133 CR on requirements for HO with PSCell when PSCell is on CCA in NR SA to EN-DC scenario**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2393 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to introduce HO with PSCell requirements for PSCell with CCA

**Decision:** The document was **not treated**.

##### 9.9.1.3 PUCCH SCell activation/deactivation

**[103-e][208] NR\_RRM\_enh2\_3, AI 9.9.1.3, 9.9.2.3 – Qiuge Guo**

**R4-221280 Email discussion summary for [103-e][208] NR\_RRM\_enh2\_3**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207773 On remaining issue for PUCCH SCell activation**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207774 CR on PUCCH SCell activation in TS38.133 R17**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2291 rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207956 PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208063 Discussion on remaining issue about PUCCH SCell activation**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208087 Open issues on PUCCH SCell activation**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208088 draft CR on PUCCH SCell activation delay**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208172 Discussion on remaining issues for PUCCH Scell activation**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208173 Completing PUCCH SCell activation requirement**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2302 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208349 Initial discussion on test cases for PUCCH SCell ActivationDeactivation**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208462 Discussion on PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2208464 CR on PUCCH SCell activation and deactivation delay requirements**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2318 rev Cat: F (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2208938 Discussion on maintenance for PUCCH SCell activation**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208939 CR on maintenance for PUCCH SCell activation**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2351 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210134 RRM requirements for SCell activation/deactivation with PUCCH**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Remaining issues are discussed for PUCCH SCell activation.

**Decision:** The document was **not treated**.

**R4-2210135 CR on SCell activation/deactivation with PUCCH**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2394 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR on PUCCH SCell activation for multiple SCells.

**Decision:** The document was **not treated**.

#### 9.9.2 RRM performance requirements

##### 9.9.2.1 SRS antenna port switching

**R4-2207730 SRS RRM performance scope**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2207731 SRS configuration correction**

*Type: CR For: Approval  
 38.133 v16.11.0 CR-2285 rev Cat: F (Rel-16)  
  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2207768 On test case list for SRS antenna port switching**

*Type: discussion For: Approval  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208065 DraftCR to TS 38.133: NR FR1 interruptions at NR SRS antenna port switching with more than 1 SRS symbol in NR-CA**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208091 Discussion on test cases for SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208094 draftCR on TC1 SRS antenna switching with 1 SRS symbol in sync EN-DC**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208108 Draft CR on NR FR1 - E-UTRAN interruptions at NR SRS antenna port switching with 1 SRS symbol in asynchronous NE-DC**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2299 rev Cat: B (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208174 Discussion on test for SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208175 Test case for Interruptions at NR FR1 one SRS symbol with antenna port switching in asynchronous EN-DC**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208350 draft CR on NR FR1-E-UTRAN interruptions at NR SRS antenna port switching with 1 SRS symbol in synchronous NE-DC (TC6)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208461 Draft CR on TC for interruptions at SRS antenna port switching with more than 1 SRS symbol in async NE-DC**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2208520 Discussion on test cases for SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208940 Discussion on performance requirements for SRS antenna switching**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208941 Draft CR on TC for NR SRS antenna port switching with more than 1 SRS symbol in asynchronous EN-DC**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209492 Discussion on test cases for R17 interruption requirements for SRS antenna switching**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209493 draft CR on test cases for NR FR1 interruptions at NR SRS antenna port switching with 1 SRS symbol in NR-CA**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

##### 9.9.2.2 HO with PSCell

**R4-2207772 Draft CR on TC for HO with PSCell from NR-SA to EN-DC with parallel processing and known FR2 PSCell in TS38.133 R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208064 DraftCR to TS 38.133: Handover with PSCell from NR-DC to NR-DC with sequential processing**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208106 CR on test case for Handover with PSCell from NR SA to EN-DC with sequential processing**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2297 rev Cat: B (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208176 Discussion on test for HO with PSCell**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208177 Test case of handover with PSCell from EN-DC to EN-DC with known target PSCell in FR1**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208351 draft CR on HO with PSCell from NR SA to EN-DC with parallel processing(TC2)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208458 RRM performance requirements for HO with PSCELL**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208502 discussion on HO with PSCell performance requirements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

discussion on HO with PSCell performance requirements

**Decision:** The document was **not treated**.

**R4-2208503 dratCR on test case for HO with PSCell - TC10**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DraftCR for HO with PSCell test case - TC10

**Decision:** The document was **not treated**.

**R4-2208518 Discussion on test cases for HO with PSCell**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208942 Discussion on performance requirements for HO with PSCell**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208943 Draft CR on TC for HO with PSCell from NR SA to EN-DC**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209495 Discussion on test cases for R17 requirements for HO with PSCell**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209496 draft CR on test cases for Handover with PSCell from NE-DC to NE-DC with known target PSCell**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209991 Draft CR 38.133 on the test case of handover with PSCell from NR-DC to NR-DC with parallel processing**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2210114 RRM performance requirements for HO with PSCELL**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210136 TC for HO with PSCell from NE-DC to NE-DC with unknown target PSCell**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TC for HO with PSCell from NE-DC to NE-DC with unknown target PSCell

**Decision:** The document was **not treated**.

##### 9.9.2.3 PUCCH SCell activation/deactivation

**R4-2207775 TC for PUCCH SCell activation and deactivation delay requirements of FR1 unknown PUCCH SCell and one FR1 unknown SCell (All NR cells in FR1) R17**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207957 Performance requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208089 draftCR on TC3 PUCCH SCell activation of FR2 known cell in SA**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208107 CR on TC for PUCCH SCell activation and deactivation delay requirements**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2298 rev Cat: B (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208178 Discussion on test for PUCCH SCell activation**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208179 Test case for PUCCH SCell activation and deactivation delay requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208352 Maintenance to requirements for PUCCH SCell activationdeactivation**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208353 draft CR for PUCCH SCell activation and deactivation delay requirements of FR1 known cell for EN-DC (TC10)**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208463 Draft CR on TC for PUCCH SCell activation and deactivation delay requirements of FR1 unknown cell**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2208519 Discussion on test cases for PUCCH SCell activation/deactivation**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208944 Discussion on performance requirements for PUCCH SCell activation**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208945 Draft CR on TC for PUCCH SCell activation and deactivation**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210137 TC for PUCCH SCell activation and deactivation delay requirements of FR2 known cell with FR1 PCell**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TC for PUCCH SCell activation and deactivation delay requirements of FR2 known cell with FR1 PCell

**Decision:** The document was **not treated**.

### 9.10 NR and MR-DC measurement gap enhancements

#### 9.10.1 RRM core requirement maintenance

##### 9.10.1.1 Pre-configured MG pattern(s)

**[103-e][210] R17\_Maintenance, AI 9.10.1.1, 9.10.2.1 – Rui Huang**

**R4-221282 Email discussion summary for [103-e][210] NR\_MG\_Part\_2**

*Type: other For: Information  
 Source: Moderator (Intel)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2208030 Open issues in core requirements for pre-configured measurement gaps**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208294 Discussion on remaining issues of pre-configured gap**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208295 Maintenance CR on TS38.133 for pre-MG**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2306 rev Cat: F (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208354 On pre-configured MG**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208355 CR to maintain pre-configured measurement gap in TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2314 rev Cat: F (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208459 draftCR on Pre-MG core maintenance**

*Type: draftCR For: (not specified)  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208772 Views on pre-configured MG patterns**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209203 Discussion on remaining issues for pre-configured MG**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209204 CR on pre-MG related requirements**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2358 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210167 Correction to Pre-MG requirements in TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2398 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR updates remaining requirements related to pre-configured measurement gap.

**Decision:** The document was **not treated**.

**R4-2210231 Discussion on requirements for Pre-configured MG patterns**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on remaining issues for pre-configured NR MG patterns

**Decision:** The document was **not treated**.

##### 9.10.1.2 Multiple concurrent and independent MG patterns

**[103-e][209] R17\_Maintenance, AI 9.10.1, 9.10.1.2, 9.10.2.2 – Ato Yu**

**R4-221281 Email discussion summary for [103-e][209] NR\_MG\_enh\_1**

*Type: other For: Information  
 Source: Moderator (Mediatek)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207756 On multiple concurrent and independent MG patterns**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207757 draftCR on concurrent gaps**

*Type: draftCR For: (not specified)  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208032 Open issues in core requirements for multiple concurrent measurement gaps**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208066 Discussion on concurrent measurement gaps in NR**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208104 Discussion on the remaining issues for concurrent MGs**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208206 Discussion on the maintenance for multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208273 Issues for multiple concurrent and independent MG pattern maintenance**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208296 Discussion on remaining issues of concurrent gaps**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208297 Maintenance CR on TS38.133 for L1 impact due to concurrent MG**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2307 rev Cat: F (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208356 On multiple concurrent and independent MG**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208357 CR to maintain concurrent measurement gap in TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2315 rev Cat: F (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208522 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208528 CR on concurrent measurement gaps**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2324 rev Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208592 Discussion on remaining aspects of concurrent measurement gaps**

*Type: discussion For: Agreement  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208593 CR for remaining aspects of concurrent measurement gaps (section 8)**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2332 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208594 CR for remaining aspects of concurrent measurement gaps (section 9)**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2333 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208773 Views on multiple concurrent and independent MGs**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208780 Reply LS on coordination of R17 gap features**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209205 Discussion on remaining issues for multiple concurrent MGs**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209206 CR on collision handling for concurrent MGs**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2359 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209449 Discussion on Multiple concurrent MG patterns**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses concurrent gaps

**Decision:** The document was **not treated**.

**R4-2209450 CR on concurrent gaps(9.1.8.2)**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2376 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR updates the measurement gap combinations for concurrent gaps

**Decision:** The document was **not treated**.

##### 9.10.1.3 Network Controlled Small Gap

**[103-e][211] NR\_MG\_enh\_3, AI 9.10.1.3, 9.10.2.3 – Qiming Li**

**R4-221283 Email discussion summary for [103-e][211] NR\_MG\_enh\_3**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2208298 Discussion on remaining issues of NCSG**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208299 Maintenance CR on TS38.133 for L1 impact due toNCSG**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2308 rev Cat: F (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208358 CR to maintain measurements with NCSG in TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2316 rev Cat: F (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208460 draftCR on NCSG core maintenance**

*Type: draftCR For: (not specified)  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208529 CR on inter-frequency measurement with NCSG**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2325 rev Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208774 Views on remaining issues of NCSG**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209207 Discussion on remaining issues for NCSG**

*Type: LS out For: Approval  
 to RAN2  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209208 CR on maintenance of NCSG requirements**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2360 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210168 Correction to NCSG requirements in TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2399 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR updates remaining requirements related to NCSG.

**Decision:** The document was **not treated**.

#### 9.10.2 RRM performance requirements

##### 9.10.2.1 Pre-configured MG pattern(s)

**R4-2207755 On Pre-MG performance**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208031 On performance requirements for pre-configured measurement gaps**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208067 Discussion on NR Pre-configured MG test cases configuration and list**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208207 Test cases for pre-configured MG pattern**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208300 Discussion on test case scope for pre-configured gap**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208524 Discussion on test cases for pre-configured MG pattern(s)**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208779 Discussion on pre-configued MG performance requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209209 Discussion on test cases for pre-MG**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210169 RRM test case scenarios for Pre-configured measurement gaps**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

This document discusses RRM tests for NCSG

**Decision:** The document was **not treated**.

##### 9.10.2.2 Multiple concurrent and independent MG patterns

**R4-2207758 On multiple concurrent and independent MG patterns performance**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208033 On performance requirements for multiple concurrent measurement gaps**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208068 Discussion on NR concurrent MG test cases configuration and list**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208208 Test cases for multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208301 Discussion on test case scope for concurrent gaps**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208521 Discussion on test cases for multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2209210 Discussion on test cases for concurrent MGs**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209451 Test case for multiple concurrent MG patterns**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the test design for concurrent gaps

**Decision:** The document was **not treated**.

##### 9.10.2.3 Network Controlled Small Gap

**R4-2207759 On network controlled small gap performance**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208069 Discussion on NCSG test cases configuration and list**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208209 Test cases for NCSG**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208302 Discussion on test case scope for NCSG**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208457 RRM performance requirements for NCSG**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208523 Discussion on test cases for Network Controlled Small Gap**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208777 Discussion on NCSG performance requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2209211 Discussion on test cases for NCSG**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210113 RRM performance requirements for NCSG**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210170 RRM test case scenarios for NCSG**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

This document discusses RRM tests for NCSG

**Decision:** The document was **not treated**.

### 9.11 Further enhancement on NR demodulation performance

#### 9.11.1 General

#### 9.11.2 UE demodulation and CSI requirements

**R4-2209829 Draft CR: Introduction of release independence for MMSE-IRC receiver requirements (TS 38.307 Rel-17)**

*Type: draftCR For: Endorsement  
 38.307 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.11.2.1 MMSE-IRC receiver for inter-cell interference

###### 9.11.2.1.1 PDSCH requirements

###### 9.11.2.1.2 CQI requirements

##### 9.11.2.2 MMSE-IRC receiver for intra-cell inter-user interference

##### 9.11.2.3 CRS-IM receiver in scenarios with overlapping spectrum for LTE and NR

###### 9.11.2.3.1 General

###### 9.11.2.3.2 Test set-up

#### 9.11.3 BS demodulation requirements maintenance

##### 9.11.3.1 PUSCH demodulation requirements for FR1 256QAM

### 9.12 Solutions for NR to support non-terrestrial networks (NTN)

#### 9.12.1 General

#### 9.12.2 Coexistence aspects

#### 9.12.3 Satellite Access Node RF requirements

##### 9.12.3.1 TX requirements for radiated characteristics

##### 9.12.3.2 RX requirements for radiated characteristics

##### 9.12.3.3 Tx requirements for conducted characteristics

##### 9.12.3.4 Rx requirements for conducted characteristics

#### 9.12.4 Satellite Access Node RF conformance testing

##### 9.12.4.1 General and work plan

##### 9.12.4.2 Conductive conformance Testing

##### 9.12.4.3 Radiated conformance Testing

#### 9.12.5 UE RF requirements

##### 9.12.5.1 TX requirements

##### 9.12.5.2 RX requirements

#### 9.12.6 RRM core requirements

##### 9.12.6.1 General

##### 9.12.6.2 GNSS-related requirements

##### 9.12.6.3 Mobility requirements

##### 9.12.6.4 Timing requirements

##### 9.12.6.5 Measurement procedure requirements

#### 9.12.7 RRM performance requirements

#### 9.12.8 Demodulation requirements

##### 9.12.8.1 General

##### 9.12.8.2 Satellite Access Node demodulation requirements

###### 9.12.8.2.1 PUSCH requirements

###### 9.12.8.2.2 PUCCH requirements

###### 9.12.8.2.3 PRACH requirements

##### 9.12.8.3 UE demodulation requirements

###### 9.12.8.3.1 PDSCH requirements

### 9.13 UE Power Saving Enhancements for NR

#### 9.13.1 RRM core requirement maintenance

#### 9.13.2 RRM performance requirements

#### 9.13.3 Demodulation performance requirements

### 9.14 NR Sidelink enhancement

#### 9.14.1 UE RF requirement maintenance for NR SL enhancement

**[103-e][109] NRSL\_enh\_maintenance\_Part\_1, AI 9.14.1 –Su Hwan Lim**

**R4-2210245 Email discussion summary for [103-e][109] NRSL\_enh\_maintenance\_Part\_1**

*Type: other For: Information  
 Source: Moderator (Meta)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207963 TR38.785 v1.1.0 TR Update for SL enhancement in Rel-17**

*Type: draft TR For: Agreement  
 38.785 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics Deutschland*

**Abstract:**

Draft TR correcting errors in TR38.785 v1.0.0 based on the comment from MCC

**Decision:** The document was **not treated**.

**R4-2207964 TR38.785 v1.2.0 TR Update for SL enhancement in Rel-17**

*Type: draft TR For: Agreement  
 38.785 v1.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics Deutschland*

**Abstract:**

Draft TR 38.785 v1.2.0 to update agreed TP in RAN4#103e from TR38.785 v1.0.0

**Decision:** The document was **not treated**.

**R4-2208184 CR for TS 38.101-1, Correction on configured transmitted power for V2X\_Rel-16**

*Type: CR For: Agreement  
 38.101-1 v16.11.0 CR-1059 rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208185 CR for TS 38.101-1, Correction on configured transmitted power for V2X\_Rel-17**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1060 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208186 CR for TS 38.101-1, Correction on MOP requirements for inter-band V2X con-current operation\_Rel-16**

*Type: CR For: Agreement  
 38.101-1 v16.11.0 CR-1061 rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208187 CR for TS 38.101-1, Correction on MOP requirements for inter-band V2X con-current operation\_Rel-17**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1062 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208188 CR for TS 38.101-3, Correction on MOP requirements for inter-band V2X con-current operation\_Rel-16**

*Type: CR For: Agreement  
 38.101-3 v16.11.0 CR-0711 rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208189 CR for TS 38.101-3, Correction on MOP requirements for inter-band V2X con-current operation\_Rel-17**

*Type: CR For: Agreement  
 38.101-3 v17.5.0 CR-0712 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208237 Discussion on configured transmitted power for V2X**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208613 Discussion on configured transmitted power for SL**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208614 Draft CR for TS 38.101-1, Correction on configured transmitted power for SL (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208615 Draft CR for TS 38.101-1, Correction on configured transmitted power for SL (Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209403 Draft CR on correction of Pemax in SL (R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209516 on the remaining issue for Pemax**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209517 CR on Pemax definition R16**

*Type: CR For: Agreement  
 38.101-1 v16.11.0 CR-1101 rev Cat: F (Rel-16)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209518 CR on Pemax definition R17**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1102 rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209747 On Pemax for NR V2X**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209748 draft CR for TS 38.101-1: correct Pemax for NR V2X (R16 Cat-F)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209749 draft CR for TS 38.101-1: correct Pemax for NR V2X (R17 Cat-A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209750 CR to TS 38.307: SL requirements (R17)**

*Type: CR For: Agreement  
 38.307 v17.5.0 CR-0102 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.14.2 Maintenance for Intra-band con-current operation between NR SUL and NR Uu

**[103-e][110] NRSL\_enh\_maintenance\_Part\_2, AI 9.14.2, 9.14.3 –Yuan Gao**

**R4-2210246 Email discussion summary for [103-e][110] NRSL\_enh\_maintenance\_Part\_2**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207630 V2X RF switching issues**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Discusses switching priority for V2X intra-band con-current operation, permissible operation modes and specifications for intra-band con-current operation

**Decision:** The document was **not treated**.

**R4-2207631 V2X intra-band con-current operation**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1048 rev Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208183 Reply LS on new power class capability for NR-V2X**

*Type: LS out For: Approval  
 to RAN2  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208616 Discussion and reply LS on new power class capability for NR V2X**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209418 R17 UE power class in SL intra-band concurrent operation**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2209515 on the reply LS on new power class capability for NR-V2X**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209746 CR for TS 38.101-1: correction for NR SL con-current operation requirements (R17)**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1109 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.14.3 Maintenance for High power UE(PC2) for SL

**R4-2209751 CR to TS 38.101-1: update of NR-V2X MPR requirements (R17)**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1110 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2210190 Reply LS on Signaling of PC2 V2X intra-band concurrent operation**

*Type: discussion For: Approval  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 9.14.4 RRM core requirement maintenance

#### 9.14.5 RRM performance requirements

#### 9.14.6 Demodulation performance requirements

### 9.15 Extending current NR operation to 71GHz

#### 9.15.1 General

**[103-e][131] NR\_ext\_to\_71GHz\_Part\_1, AI 9.15.1, 9.15.2 – Aida L Vera Lopez**

**R4-2210266 Email discussion summary for [103-e][131] NR\_ext\_to\_71GHz\_Part\_1**

*Type: other For: Information  
 Source: Moderator (Intel)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2208045 UE features for NR ext. to 71GHz WI**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208143 Draft reply LS on the minimum guard period between two SRS resources for antenna switching**

*Type: LS out For: Approval  
 to RAN1  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208541 Draft CR to TS 38.104: Addition of support for band n264 for licensed operation within 66000 to 71000 MHz**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

At last RAN4 meeting draft CR R4-2207457 and R4-2206582 was technically endorsed. In this draft CR we collect all aspects related to the introdcution of n264 (licensed band) defined between 66000 to 71000 MHz within FR2-2.

**Decision:** The document was **not treated**.

**R4-2208617 Draft CR for TS 38.101-2: Introduction of system parameters for FR2-2**

*Type: draftCR For: Approval  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208763 Draft reply LS on the minimum guard period between two SRS resources for antenna switching**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209322 Multi-band relaxation requirement for band n263**

*Type: discussion For: Approval  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209509 further discussion and draft reply LS on minimum guard symbol of SRS**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209716 UE features for NR in 52.6 GHz - 71 GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2210080 draft CR 38.101-3 on FR2-2 DC/CA with FR1 anchor**

*Type: draftCR For: Endorsement  
 38.101-3 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

draft CR 38.101-3 on FR2-2 DC/CA with FR1 anchor

**Decision:** The document was **not treated**.

#### 9.15.2 Operation bands and system parameters (channelization, raster, CBW, etc)

**R4-2207780 Remaining issues on system parameters for NR operation in 52.6GHz - 71GHz**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208046 Further views on channelization for FR2-2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208047 Draft CR to introduce the channel and sync rasters of band n263 (option 1)**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208048 Draft CR to introduce the channel and sync rasters of band n263 (option 1)**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208479 System parameters for a NR band in the range 52.6GHz – 71GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution discusses open issues related to systems parameters for a NR band in the range 52.6GHz – 71GHz

**Decision:** The document was **not treated**.

**R4-2208540 Draft CR to TS 38.104: Addition of FR2-2definition in sucblause 5.1, n263 in subalcuse 5.2 and transmission bandwidth information in subclause 5.3**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

At last RAN4 meeting all updates related to BS RF core requirements was collected in a big draft CR (R4-2207511). In this draft CR additional missing information related to band n263 is provided in clause 5. The n263 band definition is captured in subclau

**Decision:** The document was **not treated**.

**R4-2208618 Further discussion on channel raster and sync raster for NR extending to 71GHz**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208649 60GHz channel and synchronization raster**

*Type: discussion For: Approval  
 Source: LG Electronics Finland*

**Abstract:**

Views and proposal for channel and synchronization raster for 57-71GHz frequency range.

**Decision:** The document was **not treated**.

**R4-2209139 52.6-71 GHz System Parameters**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution an example of a fixed channelization spanning 52.6-71 GHz and technical discussions on proposed spectrum utilization considering both licensed and unlicensed use.

**Decision:** The document was **not treated**.

**R4-2209682 Draft CR to TS 38.101-2: Channel arrangement and channel bandwidths for 66-71 GHz**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

In this Draft CR, the previously endorsed content in R4-2206607 is updated with agreement on the Initial Access restriction for the 960kHz SCS sync raster

**Decision:** The document was **not treated**.

**R4-2209683 Draft CR to TS 38.104: Channel arrangement and channel bandwidths for 66-71 GHz**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

In this Draft CR, the previously endorsed content in R4-2206582 is updated with agreement on the Initial Access restriction for the 960kHz SCS sync raster

**Decision:** The document was **not treated**.

**R4-2210117 Draft CR to introduce the channel and sync rasters of band n263 (option 2)**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2210118 Draft CR to introduce the channel and sync rasters of band n263 (option2)**

*Type: draftCR For: Endorsement  
 38.104 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2210188 60GHz UE bandwidths**

*Type: discussion For: Approval  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 9.15.3 UE RF requirements

**[103-e][132] NR\_ext\_to\_71GHz\_Part\_2, AI 9.15.3 – Phil Coan**

**R4-2210267 Email discussion summary for [103-e][132] NR\_ext\_to\_71GHz\_Part\_2**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 9.15.3.1 TX requirements

**R4-2207696 On remaining Tx issues for band n263**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207697 Draft CR to 38.101-2 on band n263 Tx aspects**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208049 UE Tx requirements for FR2-2 - remaining issues**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208226 Discussion on FFT sizes for 52 6-71GHz**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208619 Discussion on remaining Tx RF requirements for FR2-2**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208647 Discussion on open specification items for Tx RF requirements**

*Type: discussion For: Discussion  
 Source: LG Electronics Finland*

**Abstract:**

Views and ways forward on open specification items for Tx RF requirements in FR2-2.

**Decision:** The document was **not treated**.

**R4-2208754 Upper limit on configured maximum power for 57-71 GHz**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we propose to use NS signaling to indicate the upper limit of the output power.

**Decision:** The document was **not treated**.

**R4-2208759 On n263 associated band specific Tx requirements**

*Type: discussion For: Discussion  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208760 Draft CR for n263 RF Tx requirements**

*Type: draftCR For: Discussion  
 38.101-2 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208781 draft CR on open specification for PC2 in FR2-2**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: LG Electronics Finland*

**Abstract:**

Add open specification items for PC2 in FR2-2

**Decision:** The document was **not treated**.

**R4-2209507 on the UE TX requirement**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209510 draftCR on the UE TX requirement for band n263**

*Type: draftCR For: (not specified)  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209717 On UE Tx RF aspects for FR2-2**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2210166 60 GHz UE TX**

*Type: discussion For: Approval  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Proposals for open items in UE TX

**Decision:** The document was **not treated**.

##### 9.15.3.2 RX requirements

**R4-2208620 Discussion on remaining Rx RF requirements for FR2-2**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208761 On n263 associated band specific Rx requirements**

*Type: discussion For: Discussion  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208762 Draft CR for n263 RF Rx requirements**

*Type: draftCR For: Discussion  
 38.101-2 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209323 Rx requirement for band n263**

*Type: discussion For: Approval  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209508 on the UE RX requirement**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209511 draftCR on the UE RX requirement for band n263**

*Type: draftCR For: (not specified)  
 38.101-2 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209718 On UE Rx RF aspects for FR2-2**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 9.15.4 BS RF requirements

##### 9.15.4.1 TX requirements

##### 9.15.4.2 RX requirements

#### 9.15.5 BS RF conformance testing

##### 9.15.5.1 General

##### 9.15.5.2 Transmitter characteristics

##### 9.15.5.3 Receiver characteristics

#### 9.15.6 Co-existence simulations

#### 9.15.7 FR1+FR2-2 DC/CA band combinations

#### 9.15.8 RRM core requirements

##### 9.15.8.1 General

**[103-e][212] R17\_Maintenance, AI 9.15.8, 9.15.8.1, 9.15.8.2, 9.15.9 – Prashant Sharma**

**R4-221284 Email discussion summary for [103-e][212] NR\_ext\_to\_71GHz\_RRM\_1**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207783 On Rx beam sweeping scaling factor**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208144 Further discussion on General RRM requirements for extension to 71GHz**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208308 Discussion on general RRM measurement requirements for extension to 71GHz**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2208732 Discussions on the Rx beam sweeping factor**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208809 Remian issues on RRM impacts for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208811 Draft CR - Introduction of scheduling restriction requirements in FR2-2**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208946 Discussion on general requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209050 Draft CR to TS 38.133 Corrections on scheduling availability in FR2-2**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209094 On inter\_frequency requriements with LBT**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

inter\_frequency requriements with LBT

**Decision:** The document was **not treated**.

**R4-2209095 General RRM requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

General RRM requirements for extending NR operation to 71GHz

**Decision:** The document was **not treated**.

**R4-2209384 Discussion on general RRM requirements for extension to 71 GHz**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2210223 Measurement procedures for FR2-2**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 9.15.8.2 Timing requirements

**R4-2207781 UE transmit timing for NR operation in 52.6GHz - 71GHz**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207782 Draft CR on UE transmit timing for NR operation in 52.6GHz - 71GHz**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208145 Further discussion on RRM timing requirements for higher SCS**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208650 UE timing requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

MRTD and MTTD values

**Decision:** The document was **not treated**.

**R4-2208810 Remian issues on timing requirements for 52.6-71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208812 Draft CR - Introduction of deriveSSB-IndexFromCell tolerance requirements in FR2-2**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208947 Discussion on timing requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209385 Discussion on RRM timing requirements for extension to 71 GHz**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209386 Draft CR adding timing requirements for FR2-2**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.15.8.3 Interruption requirements

##### 9.15.8.4 Active BWP switching delay requirements

##### 9.15.8.5 Measurement gap interruption requirements

##### 9.15.8.6 LBT impacts on RRM requirements

**[103-e][213] NR\_ext\_to\_71GHz\_RRM\_2, AI 9.15.8.3, 9.15.8.4, 9.15.8.5, 9.15.8.6 – Meng Zhang**

**R4-221285 Email discussion summary for [103-e][213] NR\_ext\_to\_71GHz\_RRM\_2**

*Type: other For: Information  
 Source: Moderator (Intel)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207784 LBT impacts on RRM requirements for NR operation in 52.6GHz - 71GHz**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208056 Discussion on LBT impacts on RRM requirements for NR 52.6 – 71 GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208057 DraftCR for FR2-2 LBT support in RRC\_IDLE, RRC\_INACTIVE and RRC\_CONNECTED state mobility requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208472 Discussion on LBT impacts on RRM requirements in FR2-2**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2208948 Discussion on LBT impacts for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208949 Draft CR on RLM and Link recovery procedures for unlicensed operation in FR2-2**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209051 Draft CR to TS 38.133 Intra-frequency measurement requirements with CCA in FR2-2**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209053 Discussion on RRM requirements with CCA in FR2-2**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209096 LBT impacts on RRM requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

LBT impacts on RRM requirements for extending NR operation to 71GHz

**Decision:** The document was **not treated**.

**R4-2210232 DraftCR for FR2-2 LBT support in L1-RSRP measurements for reporting**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

The draftCR updates clause 9.5 and/or 9.5a based on agreements related L1-RSRP

**Decision:** The document was **not treated**.

#### 9.15.9 RRM performance requirements

**R4-2208146 Test case list for NR extension to 71 GHz RRM requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208731 Views on the statistical tests for Te requirements**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208813 Discussion on performance requirements for 52.6-71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208950 Discussion on performance requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209052 Discussion on RRM performance in FR2-2**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2210224 FR2-2 RRM Performance Work Plan**

*Type: Work Plan For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 9.15.10 Demodulation and CSI requirements

##### 9.15.10.1 General

##### 9.15.10.2 UE Demodulation and CSI requirements

###### 9.15.10.2.1 PDSCH requirements

###### 9.15.10.2.2 PDCCH/PBCH requirements

###### 9.15.10.2.3 SDR requirements

###### 9.15.10.2.4 CSI reporting requirements

##### 9.15.10.3 BS demodulation requirements

###### 9.15.10.3.1 PUSCH requirements

###### 9.15.10.3.2 PUCCH requirements

###### 9.15.10.3.3 PRACH requirements

### 9.16 Enhancements to Integrated Access and Backhaul (IAB) for NR

#### 9.16.1 General

#### 9.16.2 RF requirements maintenance

#### 9.16.3 RF conformance testing

#### 9.16.4 RRM core requirements maintenance

#### 9.16.5 RRM performance requirements

#### 9.16.6 Demodulation requirements

### 9.17 NR coverage enhancements

#### 9.17.1 UE RF requirement maintenance

**[103-e][112] NR\_cov\_enh\_maintenance, AI 9.17.1 – Shan Yang**

**R4-2210247 Email discussion summary for [103-e][112] NR\_cov\_enh\_maintenance**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207861 Updated summary of RF agreements for NR coverage enhancements WI**

*Type: other For: Information  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2209163 On remaining issues for NR coverage enhancements**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209164 CR on clarification for DMRS bundling RF requirements for SUL in TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1085 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209165 CR on UE RF requirements for DMRS bundling in TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1086 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

Resubmission of the endorsed CR R4-2206538, since it is accidentaly not included in TS 38.101-1 v17.5

**Decision:** The document was **not treated**.

**R4-2210081 DMRS bundling – UE RF “maintenance” aspects**

*Type: discussion For: Agreement  
 Source: MediaTek (Chengdu) Inc.*

**Abstract:**

Resolution of some "maintenance" issues

**Decision:** The document was **not treated**.

##### 9.17.1.1 Phase continuity core requirement maintenance

**R4-2207657 Discussion on additional requirements for DMRS bundling**

*Type: other For: Approval  
 Source: Qualcomm Incorporated, China Telecom, T-Mobile USA, Verizon, CMCC*

**Decision:** The document was **not treated**.

**R4-2207658 Handling of UL CA for DMRS bundling**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **withdrawn**.

**R4-2207659 CR 38.101-1 DMRS for CA**

*Type: CR For: Approval  
 38.101-1 v17.5.0 CR-1049 rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated, China Telecom, T-Mobile USA, CMCC, Nokia*

**Decision:** The document was **not treated**.

**R4-2207695 On coverage enhancement combined with UL MIMO**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207862 Maintenance of phase continuity requirements for DMRS bundling**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2207864 Reply LS on modulation order for DMRS bundling**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2209456 remaining issue related to DMRS bundling requirement**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the remaining issue related to RF requirement.

**Decision:** The document was **not treated**.

**R4-2209458 CR on DMRS bundling phase offset Requirment FR1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1099 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR to update DMRS bundling requiremeent

**Decision:** The document was **not treated**.

**R4-2209459 CR on DMRS bundling phase offset Requirment FR2**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0461 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR to update the DMRS bundling requirement

**Decision:** The document was **not treated**.

**R4-2210215 Handling of UL CA for DMRS bundling**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 9.17.1.2 Issues for measurement and test setup

**R4-2207863 On measurement of phase continuity requirements for DMRS bundling**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2209157 Phase difference measurement for DMRS bundling**

*Type: discussion For: Approval  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209158 Draft CR for new additions to Annex F9 related to the FR1 DMRS bundling requirements**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209159 Draft CR for new additions to Annex F9 related to the FR2 DMRS bundling requirements**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2209457 On measurement of the TX coherent transmission**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the remaining issue related to RF requirement testing.

**Decision:** The document was **not treated**.

**R4-2209460 CR on DMRS bundling phase offset measurement FR1**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1100 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR to update DMRS bundling measurment

**Decision:** The document was **not treated**.

**R4-2209461 CR on DMRS bundling phase offset measurement FR2**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0462 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR to update DMRS bundling measurment

**Decision:** The document was **not treated**.

**R4-2210029 eIAB testing case#6 intra node TAE**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discuss the testing of the case#6 intra node TAE

**Decision:** The document was **not treated**.

#### 9.17.2 BS demodulation requirements

##### 9.17.2.1 PUSCH requirements

##### 9.17.2.2 PUCCH requirements

### 9.18 Further enhancements on MIMO for NR

#### 9.18.1 UE RF requirement maintenance

**[103-e][113] NR\_feMIMO\_maintenance, AI 9.18.1 –Taekhoon Kim**

**R4-2210248 Email discussion summary for [103-e][113] NR\_feMIMO\_maintenance**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 9.18.1.1 Impact of MPE enhancements

**R4-2207778 On per-beam based PMPR**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208601 Discussion on clarification of P-MPR for Rel-17 eMIMO**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208602 CR for clarification of P-MPR for Rel-17 eMIMO**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1076 rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208775 Discussion on Impact of MPE enhancements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2210002 Draft CR on P-MPR reporting and configured transmit power**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple AB*

**Decision:** The document was **not treated**.

##### 9.18.1.2 SRS related impact

**R4-2207663 Transmissions on a gap between SRSs**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207779 On SRS switching in FeMIMO**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208381 GP position handling in gap between two UL SRS resource sets**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208383 [Draft] LS on GP positioning between two UL SRS resource sets**

*Type: LS out For: Approval  
 to RAN1  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209167 Remaining issues for SRS**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.18.2 RRM core requirement maintenance

##### 9.18.2.1 Unified TCI for DL and UL

##### 9.18.2.2 Inter-cell beam management

##### 9.18.2.3 Others

#### 9.18.3 RRM performance requirements

#### 9.18.4 UE Demodulation and CSI requirements

##### 9.18.4.1 General

##### 9.18.4.2 Demodulation requirements

###### 9.18.4.2.1 Enhancement on HST-SFN scenario

###### 9.18.4.2.2 Enhancement on Multi-TRP

##### 9.18.4.3 CSI requirements

###### 9.18.4.3.1 CSI reporting for Multi-TRP transmission

###### 9.18.4.3.2 Rel-17 eType II port selection codebook

### 9.19 Support of reduced capability NR devices

#### 9.19.1 General

**[103-e][133] NR\_RedCap, AI 9.19.1, 9.19.2 – Chunhui Zhang**

**R4-2210268 Email discussion summary for [103-e][133] NR\_RedCap**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2208474 Clarification of supporting bands and open issues in RedCap UE**

*Type: discussion For: Approval  
 Source: Facebook Japan K.K.*

**Decision:** The document was **not treated**.

#### 9.19.2 UE RF requirements

##### 9.19.2.1 FR1

**R4-2208859 Discussion on FDD Tx-Rx carrier centre frequency separation for Redcap UE**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

###### 9.19.2.1.1 Tx requirements (power class)

**R4-2209488 CR on RedCap FR1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Sony*

**Abstract:**

CR to add a note to exclude the SDL band

**Decision:** The document was **not treated**.

###### 9.19.2.1.2 Rx requirements (REFSENS, etc)

**R4-2207712 Draft CR on RedCap FR1 RF**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Sony, Ericsson*

**Decision:** The document was **not treated**.

**R4-2208475 Draft CR on TS 38.101-1 Correction on REFSENS requirements for RedCap UE**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Facebook Japan K.K.*

**Decision:** The document was **not treated**.

**R4-2208684 CR to TS38.101-1: Corrections on Redcap requirements**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1073 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 9.19.2.2 FR2

###### 9.19.2.2.1 Tx requirements (power class, UE type)

**R4-2209357 CR for 38.101-2 to correct the errors and add the missing requirements for FR2 RedCap UE**

*Type: CR For: Agreement  
 38.101-2 v17.5.0 CR-0460 rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

###### 9.19.2.2.2 Rx requirements

**R4-2209356 Clarification on DL MIMO for FR2 RedCap UE with draft LS**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209489 CR on RedCap FR2**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Sony*

**Abstract:**

CR to remove the bracket

**Decision:** The document was **not treated**.

##### 9.19.2.3 Others

#### 9.19.3 RRM core requirements

##### 9.19.3.1 Impacts from UE complexity reduction

**[103-e][214] NR\_redcap\_RRM\_1, AI 9.19.3, 9.19.3.1, 9.19.4 – Santhan Thangarasa**

**R4-221286 Email discussion summary for [103-e][214] NR\_redcap\_RRM\_1**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

###### 9.19.3.1.1 General

**R4-2208071 Discussion on the remaining RRM issues for 1Rx RedCap UEs**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208112 Discussion on remaining issues for general requirements for Redcap UE**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208266 Considerations on remaining issues for general aspects on Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208365 Discussion on general requirements on Redcap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208390 On general requirements for RedCap UE**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208974 Discussion on general RRM requirements impacts for RedCap UE**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208975 Draft CR on applicability rule of requirements for Redcap UE**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209048 Draft CR to TS 38.133 on definitions and applicability for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209446 Big CR for RedCap for TS 36.133**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7157 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Big CR to capture changes from all endorsed CRs for TS 36.133.

**Decision:** The document was **not treated**.

**R4-2209780 General discussion UE capability and scheduling availability**

*Type: discussion For: Discussion  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2209902 Discussions on general requirements for RedCap**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss general requirements that apply in all RRC states for RedCap.

**Decision:** The document was **not treated**.

**R4-2209908 Draft CR on RRC\_IDLE mode requirements for RedCap for TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR contains additional changes to IDLE mode section based on the endorsed big CR from last meeting.

**Decision:** The document was **not treated**.

**R4-2209913 Big CR for RedCap for TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2390 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Big CR to capture changes from all endorsed CRs for TS 38.133.

**Decision:** The document was **not treated**.

**R4-2210218 General issues on complexity reduction of RedCap UEs**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

###### 9.19.3.1.2 Mobility requirements

**R4-2208072 Discussion on mobility requirement for RedCap UE**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208113 Discussion on remaining issues for mobility requirements for Redcap UE**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208268 Considerations on remaining issues for mobility requirements for Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208366 Discussion on mobility requirements for RedCap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208391 On mobility requirements for RedCap UE**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208733 Requirements under RRC Connected mode for RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208976 Discussion on UE mobility requirements due to UE complexity reduction**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208977 Draft CR on mobility requirements for Redcap UE**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209042 Discussion on mobility requirements for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209043 Draft CR to TS 38.133 Corrections on mobility requirements for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209763 Discussion on mobility requirements**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209773 Discussion on mobility requirement for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209903 Discussions on RedCap mobility requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss the mobility requirements for RedCap, HO, RRC re-establishment, RA and RRC connection release with redirection.

**Decision:** The document was **not treated**.

**R4-2209909 Draft CR on SDT requirements for RedCap for TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR contains SDT requirements for RedCap.

**Decision:** The document was **not treated**.

**R4-2210220 Mobility requirements for RedCap UEs**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

###### 9.19.3.1.3 Timing requirements

**R4-2208073 Discussion on the use of SSB for timing requirements of RedCap UE**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208109 Draft CR on timing requirements for RedCap UE**

*Type: draftCR For: Approval  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208114 Discussion on remaining issues for timing requirements**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208147 Discussion on RRM timing requirements for RedCap devices**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208272 Reply LS on RSRP measurement before Msg1 or MsgA retransmission**

*Type: LS out For: Approval  
 to RAN2, cc RAN1  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208367 Discussion on timing requirements on Redcap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208392 On timings requirements for RedCap UE**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208720 Timing requirements for RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208978 Discussion on UE timing requirements due to UE complexity reduction**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209700 On timing requirements for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on open issues for RedCap timing requirements

**Decision:** The document was **not treated**.

**R4-2209701 Draft CR Correction on timing requirements for RedCap UEs**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CR on RedCap timing requirements

**Decision:** The document was **not treated**.

**R4-2209764 UE complexity reduction impact on timing requirements**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2210175 Further analysis of UE transmit timing requirements in RedCap**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Further analysis of UE initial transmit timing requirements for redcap UE

**Decision:** The document was **not treated**.

**R4-2210176 Draft CR on UE transmit timing requirements in RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR on update to the UE initial transmit timing requirements for redcap UE

**Decision:** The document was **not treated**.

###### 9.19.3.1.4 Signalling characteristics

**R4-2208148 Discussion on BWP switching for RedCap devices**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208269 Considerations on remaining issues for signalling characteristics for Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208368 Discussion on signaling characteristics requirements for RedCap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208393 On Signalling characteristics requirements for RedCap UE**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208394 Draft CR to 38.133 introducing RedCap requirements on active BWP switch delay, active TCI state switching delay and UE specific CBW change**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208721 On Signaling characteristics of RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Abstract:**

The paper discusses one remaining issue on SSB based BFD.

**Decision:** The document was **not treated**.

**R4-2208979 Discussion on signaling characteristics due to UE complexity reduction**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209046 Draft CR to TS 38.133 Signalling characteristics for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209047 Discussion on signalling characteristics for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209765 Discussion on signaling characteristic in RedCap**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209770 DraftCR on reduced capability Ues for RLM for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209774 Discussion on signalling characteristics for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209904 Discussions on RedCap signaling characteristics**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss signaling characteristics for RedCap, e.g. RLM, link recovery etc.

**Decision:** The document was **not treated**.

**R4-2210221 On signaling characteristics for RedCap UEs**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

###### 9.19.3.1.5 Measurement procedure

**R4-2208115 Discussion on remaining issues for measurement procedure for Redcap UE**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208149 Discussion on use of NCD-SSB for CONNECTED mode measurements for RedCap devices**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208267 Considerations on remaining issues for measurement procedure for Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208369 Discussion on measurement requirements for RedCap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208395 On Measurement procedure for RedCap UE**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208722 Measurement procedure of RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208980 Discussion on measurement requirements due to UE complexity reduction**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209040 Draft CR to TS 38.133 Measurement procedures for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209041 Discussion on measurement procedures for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209445 draftCR on inter-RAT NR measurement for RedCap**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

To introduce the inter-RAT NR measurement for LTE RedCap

**Decision:** The document was **not treated**.

**R4-2209766 Measurement procedure for RedCap**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209771 DraftCR on reduced capability Ues for general measurements and intra-frequency**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209772 DraftCR on reduced capability Ues for inter-frequency and inter-RAT measurements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209775 On remaining issues for measurement procedure for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209905 Discussions on RedCap measurement procedure**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss CONNECTED mode measurement procedure for RedCap.

**Decision:** The document was **not treated**.

**R4-2210219 Measurement procedures for 1Rx UEs**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 9.19.3.2 Extended DRX enhancements

**[103-e][215] NR\_redcap\_RRM\_2, AI 9.19.3.2, 9.19.3.3, 9.19.3.4 – Xusheng Wei**

**R4-221287 Email discussion summary for [103-e][215] NR\_redcap\_RRM\_2**

*Type: other For: Information  
 Source: Moderator (vivo)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2208116 Discussion on remaining issues for RedCap eDRX**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208270 Considerations on remaining issues for Redcap eDRX**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208370 Discussion on eDRX requirements for RedCap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208396 On Extended DRX cycle for RedCap UE**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208723 On extended DRX enhancements for RedCap**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208981 Discussion on Extended DRX enhancements for RedCap UE**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208982 Draft CR on measurement requirements for Redcap UE in inactive mode**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209044 Discussion on eDRX enhancements for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209045 Draft CR to TS 38.133 Correction on cell reselection requirements for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209444 Discussions on eDRX requirements for RedCap**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the eDRX requirements for RedCap

**Decision:** The document was **not treated**.

**R4-2209767 Extended DRX in IDLE mode and INACTIVE mode**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209776 Discussion on RRM requirement with eDRX for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

##### 9.19.3.3 RRM measurement relaxations

**R4-2208117 Discussion on remaining issues for RedCap RRM measurement relaxations**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2208271 Considerations on remaining issues for Redcap RRM relaxation**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208275 draft CR for idle state mobility for Redcap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208371 RRM measurement relaxations for RedCap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208397 On RRM measurement relaxation for RedCap UE**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208724 Discussions on RRM measurement relaxations for RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208983 Discussion on RRM measurement relaxations for RedCap UE**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209702 On RRM measurement relaxation for neighbouring cells**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on RRM relaxation for RedCap

**Decision:** The document was **not treated**.

**R4-2209703 Draft CR Corrections to RRM measurement relaxations for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CR on RedCap RRM relaxation requirements

**Decision:** The document was **not treated**.

**R4-2209768 RRM measurements relaxation for stationary criterion**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209777 On RRM relaxation requirement for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2209906 Discussions on RRM measurement relaxations**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss RRM measurement relaxation for RedCap.

**Decision:** The document was **not treated**.

**R4-2210222 RRM relaxations enhancements for RedCap UE**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 9.19.3.4 Others

**R4-2208398 Reply LS on introduction of an offset to transmit CD-SSB and NCD-SSB at different times**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208825 Further discussion on NCD-SSB for RedCap UE**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208826 Reply LS on operation with and without SSB for RedCap UE**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208827 Reply LS on introduction of an offset to transmit CD-SSB and NCD-SSB at different times**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208984 Reply LS on introduction of an offset to transmit CD-SSB and NCD-SSB at different times**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209704 On timing offset between CD-SSB and NCD-SSB for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on timing offset between CD-SSB and NCD-SSB

**Decision:** The document was **not treated**.

**R4-2209781 Discussion on incoming LS from other WGs**

*Type: discussion For: Discussion  
 Source: MediaTek Korea Inc.*

**Decision:** The document was **not treated**.

**R4-2209907 Discussions on other RedCap issues**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss other RedCap issues.

**Decision:** The document was **not treated**.

**R4-2209910 Draft CR on uplink spatial relation requirements for RedCap for TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR contains uplink spatial relation switch requirements.

**Decision:** The document was **not treated**.

#### 9.19.4 RRM performance requirements

**R4-2209049 Discussion on RRM performance for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209911 Workplan to RedCap RRM performance requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Workplan for RedCap RRM performance requirements.

**Decision:** The document was **not treated**.

**R4-2209912 Discussions on RRM performance requirements for RedCap**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss the performance requirements for RedCap.

**Decision:** The document was **not treated**.

**R4-2209915 Draft CR on side conditions on RRM requirements applicability for RedCap**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

DraftCR ffor side conditions for RedCap.

**Decision:** The document was **not treated**.

#### 9.19.5 UE demodulation and CSI requirements

##### 9.19.5.1 General

##### 9.19.5.2 Demodulation requirements

###### 9.19.5.2.1 PDSCH/SDR requirements

###### 9.19.5.2.2 PDCCH/PBCH requirements

##### 9.19.5.3 CSI requirements

###### 9.19.5.3.1 CQI requirements

###### 9.19.5.3.2 PMI/RI requirements

### 9.20 Positioning enhancements for NR

#### 9.20.1 RRM core requirement maintenance

**[103-e][216] NR\_pos\_enh\_1, AI 9.20.1, 9.20.2, 9.20.1.2, 9.20.2.2, 9.20.1.4, 9.20.2.4, 9.20.1.6, 9.20.2.6 –Muhammad Kazmi**

**R4-221288 Email discussion summary for [103-e][216] NR\_pos\_enh\_1**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**[103-e][217] NR\_pos\_enh\_2, AI 9.20.1.1, 9.20.2.1, 9.20.1.3, 9.20.2.3, 9.20.1.5, 9.20.2.5 – Qiuge Guo**

**R4-221289 Email discussion summary for [103-e][217] NR\_pos\_enh\_2**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 9.20.1.1 UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation

**R4-2208025 Open issues in core requirements for NR positioning - Rx/Tx timing error mitigation**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208210 Discussion on UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208725 UE RxTx and gNB RxTx timing delay mitigation**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208800 Remain issues on timing delay error mitigation**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209219 Discussion on timing error mitigation for positioning**

*Type: LS out For: Approval  
 to RAN1, RAN2, RAN3  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209220 CR on measurement period requirements with multiple Rx TEGs**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2361 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210092 Remaining issues on Rx/Tx delay mitigation.**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Temporal validity of Tx and RxTx TEGs

**Decision:** The document was **not treated**.

##### 9.20.1.2 Latency reduction of positioning measurement

**R4-2208026 Open issues in core requirements for NR positioning - latency reduction**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208211 Discussion on latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208212 CR on PRS-RSRP measurement period without gaps**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2303 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208213 CR on PRS-RSRPP measurement period requirements**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2304 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208372 Discussion on latency reduction of positioning measurements**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208527 Discussion on gapless based positioning measurement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208798 Remain issues on latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209221 Discussion on PRS measurement outside MG**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209222 CR on requirements for UE Rx-Tx measurement with reduced latency**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2362 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209223 CR on RSTD measurement period requirements without gaps**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2363 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210093 Remaining issues on latency reduced positioning.**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Reduced Rx beam sweeping factor and reduced number of samples for gapless PRS measurement

**Decision:** The document was **not treated**.

##### 9.20.1.3 Measurement in RRC\_INACTIVE state

**R4-2208027 Open issues in core requirements for NR positioning - measurements in RRC\_INACTIVE**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208214 Discussion on measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208215 CR on the PRS and RRM measurement requirements in RRC\_INACTIVE state**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2305 rev Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208373 Discussion on positioning measurements in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208726 Positioning measurements in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208799 Remain issues on PRS measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208801 CR to 38.133 on positioning measurement requirements in RRC\_INACTIVE state**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2335 rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209224 Discussion on positioning requirements in RRC\_INACTIVE**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209225 CR on general requirements for PRS measurements in RRC Inactive**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2364 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209226 CR on inter-frequency RRM requirements due to PRS measurement in INACTIVE**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2365 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210094 Remaining issues on RRC\_INACTIVE state positioning**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Reduced number of samples, reduced beam sweeping factor, PRS collision with other DL signals/channels and impact of TEG on RRC\_INACTIVE RRM core requirement

**Decision:** The document was **not treated**.

**R4-2210173 Correction to PRS measurement requirements in RRC inactive state**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2400 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR on correction to PRS measurement requirements in RRC inactive state.

**Decision:** The document was **not treated**.

##### 9.20.1.4 Impact on existing UE positioning and RRM requirements

**R4-2209227 Discussion on impacts to other RAN4 requirements**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209228 CR to introduce per-FR MG for PRS measurement**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2366 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209787 Correction to RSTD and UE Rx-Tx measurement period requirement in RRC connected state**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2387 rev Cat: F (Rel-17)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **not treated**.

**R4-2210095 Additional path measurement and RRM core requirement**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Additional path measurement applies to RRC\_CONNECTED, RRC\_INACTIVE states. There is no impact on core requirement due to additional path measurements.

**Decision:** The document was **not treated**.

##### 9.20.1.5 Enhancements of A-GNSS positioning

##### 9.20.1.6 Others

**R4-2208216 Reply LS on the dropping rule of DL signals/channels for capability 1B and 2**

*Type: LS out For: Approval  
 to RAN1  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208727 on PRS measurement outside the measurement gap**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Abstract:**

This paper discusses the matter of PRS measurement outside the measurement gap.

**Decision:** The document was **not treated**.

**R4-2209229 CR on scheduling restriction for PRS-RSRPP measurement**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2367 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210096 Addtional dropping rule for cap 1b and cap2 UE during gapless PRS measurement**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

No additional dropping rule to be defined for Cap 1B and cap 2 UEs for gapless PRS measurement.Annex also contains reply LS to R1-2202842, “LS on the dropping rule of DL signals/channels for capability 1B and 2.”, Huawei.

**Decision:** The document was **not treated**.

#### 9.20.2 RRM performance requirements

**R4-2208222 General discussion on R17 ePOS perf part**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

##### 9.20.2.1 UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation

**R4-2208217 Discussion on performance requirements for UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208804 Discussion on performance requirements for timing delay error mitigation**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209230 Discussion on accuracy requirements for TEG**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209711 Discussion on timing error mitigation for NR positioning**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on timing error mitigation for NR positioning

**Decision:** The document was **not treated**.

**R4-2210097 UE Rx/Tx timing delay mitigation performance**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

impact of TEG on accuracy requirement.

**Decision:** The document was **not treated**.

**R4-2210098 Condition for RSTD and UE Rx-Tx time difference measurement reporting**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

differential measurement reporting condition for RSTD and UE Rx-Tx time difference measurement

**Decision:** The document was **not treated**.

##### 9.20.2.2 Latency reduction of positioning measurement

**R4-2208028 Additional simulation results with reduced number of PRS samples**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208218 Discussion on performance requirements for latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208526 Discussion on test cases for latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208802 Discussion on performance requirements for latency reduction of positioning measurements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208806 Draft CR to 38.133 Introduction of positioning measurement accuracy requirements for reduced number of samples**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208807 Draft CR to 38.133 Introduction of test case for PRS measurements without gaps**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208808 Further simulation results for PRS measurement with reduced number of samples**

*Type: discussion For: Information  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209231 Discussion on accuracy and tests for latency reduction**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210057 Discussion on performance requirement for latency reduction**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2210099 Latency reduction performance requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Rel. 16 accuracy requirement applies to Reduced Rx beam sweeping factor for positioning measurement. Rel. 16 accuracy requirement applies to reduced number of samples for positioning measurement under the identified conditions for reduce number of samples

**Decision:** The document was **not treated**.

**R4-2210100 Addition of Latency reduction performance requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Rel. 16 accuracy requirement applies to Reduced Rx beam sweeping factor for positioning measurement. Rel. 16 accuracy requirement applies to reduced number of samples for positioning measurement under the identified conditions for reduce number of samples

**Decision:** The document was **not treated**.

##### 9.20.2.3 Measurement in RRC\_INACTIVE state

**R4-2208070 Discussion on performance requirements for PRS Measurement in RRC\_INACTIVE**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208219 Discussion on the performance requirements for the PRS measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2208525 Discussion on test cases for positioning measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208803 Discussion on performance requirements for PRS measurement in RRC\_INACTIVE**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209232 Discussion on accuracy and tests for PRS measurement in RRC\_INACTIVE**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209712 Discussion on measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on positioning measurements in RRC\_Inactive

**Decision:** The document was **not treated**.

**R4-2210101 RRC inactive state performance requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Accuracy requirement for RRC\_CONNECTED state apply to RRC\_INACTIVE state positioning

**Decision:** The document was **not treated**.

**R4-2210102 Accuracy requirement in RRC inactive state**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Accuracy requirement for RRC\_INACTIVE state positioning measurement.

**Decision:** The document was **not treated**.

##### 9.20.2.4 Impact on existing UE positioning and RRM requirements

**R4-2209233 Discussion on TCs for PRS measurement outside MG**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210103 Additional path measurement report mapping for existing positioning measurements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Additional path report mapping for DL RSTD. Additional path report mapping for UE Rx-Tx time difference.

**Decision:** The document was **not treated**.

**R4-2210104 Additional path measurement report mapping for RSTD, UE Rx-Tx time difference measurement.**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

measurement report mapping for up to 8 additional paths.

**Decision:** The document was **not treated**.

##### 9.20.2.5 Enhancements of A-GNSS positioning

**R4-2208220 Introduction of BDS B2a and B3I signals inTS 36.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 36.171 v17.0.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT, CAICT, CENC*

**Decision:** The document was **not treated**.

**R4-2208221 Introduction of BDS B2a and B3I signals inTS 38.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 38.171 v17.0.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT, CAICT, CENC*

**Decision:** The document was **not treated**.

##### 9.20.2.6 Others

**R4-2208029 On performance requirements for PRS-RSRPP**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208805 Discussion on performance requirements for PRS-RSRPP**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209234 Discussion on accuracy requirements and TCs for PRS-RSRPP**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210056 Discussion on accuracy requirements for PRS-RSRPP**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2210105 On performance requirements for DL PRS-RSRPP measurement.**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

support report mapping for measurement up to 8 additional paths. consider propagation paths similar to PRS RSRP for performance requirement.

**Decision:** The document was **not treated**.

**R4-2210171 Work split on performance requirements for positioning enhancement**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Rapporteur input on work split for CRs and time plan on performance requirements including accuracy requirements, test cases and side conditions.

**Decision:** The document was **not treated**.

**R4-2210172 Big DraftCR Template for Performance Requirements for Positioning Enhancement**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Rapporteur input: Big DraftCR template on performance requirements for Positioning Enhancement

**Decision:** The document was **not treated**.

### 9.21 Multi-Radio Dual-Connectivity enhancements

#### 9.21.1 RRM core requirement maintenance

**[103-e][218] LTE\_NR\_DC\_enh2, AI 9.21 – Han Jing**

**R4-221290 Email discussion summary for [103-e][218] LTE\_NR\_DC\_enh2**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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**R4-2207870 Discussion on R2 LS on TCI state indication**

*Type: discussion For: (not specified)  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2208815 CR 38.133 corrections on L1/L3 measurement requirements for deactivated SCG**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2336 rev Cat: F (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

##### 9.21.1.1 Efficient activation/de-activation mechanism for SCells

**R4-2207751 On efficient activation/de-activation mechanism for SCells**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207868 Discussion on efficient activation/de-activation mechanism for SCell**

*Type: discussion For: (not specified)  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207961 Efficient activation and deactivation mechanism for SCells**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208286 Discussion on effiicient activation/deactivation mechanism for Scells**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Mutiple scell activation requirements discussion

**Decision:** The document was **not treated**.

**R4-2208374 Discussion on efficient activation/de-activation mechanism for Scells**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208583 Final aspects on Efficient activation/de-activation mechanism for Scells**

*Type: discussion For: Agreement  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208584 CR on Efficient activation/de-activation mechanism for Scells**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2328 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208967 Discussion on efficient activation/de-activation mechanism for Scells**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208968 Draft CR on A-TRS based SCell activation and deactivated delay requirements with multiple downlink Scell**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2347 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

##### 9.21.1.2 Efficient activation/de-activation mechanism for one SCG

**R4-2207752 On efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207753 TS38.133 CR on SCG activation/deactivation**

*Type: draftCR For: (not specified)  
 38.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207754 TS36.133 CR on SCG activation/deactivation**

*Type: draftCR For: (not specified)  
 36.133 v17.5.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2207869 Discussion on efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: (not specified)  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207872 Maintenance CR for SCG activation on 38.133 R17**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2293 rev Cat: F (Rel-17)  
  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207873 Maintenance CR for SCG activation delay on 36.133 R17**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7150 rev Cat: F (Rel-17)  
  
 Source: MediaTek (Shenzhen) Inc.*

**Decision:** The document was **not treated**.

**R4-2207962 Efficient activation and deactivation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208052 DraftCR to 38133 for interruptions due to RRM measurements on deactivated SCG**

*Type: draftCR For: Endorsement  
 38.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208053 DraftCR to 36133 for interruptions due to RRM measurements on deactivated SCG**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208287 Discussion on efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Interruption requirements and measurement cycle value discussion

**Decision:** The document was **not treated**.

**R4-2208585 Final aspects on Efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: Agreement  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208586 CR on Efficient activation/de-activation mechanism for one SCG (section 8)**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2329 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208587 CR on Efficient activation/de-activation mechanism for one SCG (section 9)**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2330 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208645 CR to maintain SCG activation and deactivation delay requirements in TS 38.133**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2334 rev Cat: F (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2208814 Remain issues on Efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208969 Discussion on efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208970 Correction on beam failure detection on deactived PSCell**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2348 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2210179 Update to UE transmit requirement under deactivated SCG**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2401 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR updates the UE transmit timing requirements for SCG when PSCell is deactivated

**Decision:** The document was **not treated**.

##### 9.21.1.3 Conditional PSCell change and addition

**R4-2208288 Discussion on conditional PScell change and addition**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

test case set up discussion

**Decision:** The document was **withdrawn**.

##### 9.21.1.4 Others

**R4-2208588 TCI state indication with direct SCell activation**

*Type: discussion For: Agreement  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208589 CR for TCI state indication with direct SCell activation**

*Type: CR For: Approval  
 38.133 v17.5.0 CR-2331 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208971 Draft CR on interruptions at A-TRS based SCell activation/deactivation with multiple downlink Scells (38.133)**

*Type: CR For: Agreement  
 38.133 v17.5.0 CR-2350 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2208972 Draft CR on Interruptions at A-TRS based SCell activation/deactivation (36.133)**

*Type: CR For: Agreement  
 36.133 v17.5.0 CR-7155 rev Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

#### 9.21.2 RRM performance requirements

**R4-2208289 Disucssion on test case for SCG activation and Scell activation**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

To discuss the test scope of Rel-17 enhanmcnet for one SCG activaiton and Scell activation

**Decision:** The document was **not treated**.

**R4-2208816 Discussion on RRM performance requirements for Multi-Radio Dual-Connectivity enhancements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208973 Discussion on test cases on R17 Further Multi-RAT Dual-Connectivity enhancements**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

### 9.22 Enhanced IIoT and URLLC support

#### 9.22.1 RRM core requirement maintenance

##### 9.22.1.1 Propagation delay compensation enhancements

##### 9.22.1.2 Reference point for Te requirements

##### 9.22.1.3 Others

#### 9.22.2 RRM performance requirements

#### 9.22.3 Demodulation performance and CSI requirements

### 9.23 NR Sidelink Relay

#### 9.23.1 RRM core requirement maintenance

#### 9.23.2 RRM performance requirements

### 9.24 NR small data transmissions in INACTIVE state

#### 9.24.1 RRM core requirement maintenance

#### 9.24.2 RRM performance requirements

## 10 Rel-17 Work Items for LTE

### 10.1 LTE inter-band Carrier Aggregation for 2 bands DL with 1 band UL

**[103-e][126] LTE\_Baskets, AI 10.1, 10.2, 10.3, 10.4, 10.5 – Per Lindell**

**R4-2210261 Email discussion summary [103-e][126] LTE\_Baskets**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 10.1.1 Rapporteur Input (WID/TR/CR)

**R4-2208667 Revised WID: Rel17 LTE inter-band CA for 2 bands DL with 1 band UL**

*Type: WID revised For: Endorsement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208668 TR 36.717-02-01 v0.8.0**

*Type: draft TR For: Agreement  
 36.717-02-01 v0.8.0 CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2208669 Big CR to TS36.101: Rel-17 LTE inter-band CA for 2 bands DL and 1 band UL CA**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5863 rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 10.1.2 UE RF with harmonic, close proximity and isolation issues

#### 10.1.3 UE RF without specific issues

**R4-2208444 Draft CR for 36.101 to introduce new configurations for LTE CA with 2 bands DL and 1 band UL**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2209017 Draft CR for 36.101 to add CA\_1A-1A-38A\_BCS0**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5864 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

**R4-2209254 Draft CR for 36.101 to add CA\_1A-1A-38A\_BCS0**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 10.2 LTE inter-band Carrier Aggregation for 3 bands DL with 1 band UL

#### 10.2.1 Rapporteur Input (WID/TR/CR)

**R4-2208648 Big CR on Introduction of completed R17 3DL 1 UL CA band combinations to TS 36.101**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5862 rev Cat: B (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

**R4-2208737 revised WID Rel-17 LTE inter-band CA for 3 bands DL with 1 band UL**

*Type: WID revised For: Approval  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

**R4-2208758 TR 36.717-03-01 LTE inter-band Carrier Aggregation for 3 bands DL with 1 band UL**

*Type: draft TR For: Approval  
 36.717-03-01 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

**R4-2209168 Draft CR for 36.101 to add CA\_1A-3A-3A-7A-38A\_BCS0 CA\_1A-1A-3A-7A-38A\_BCS0 and CA\_1A-1A-3C-7A-38A\_BCS0**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209169 Draft CR for 36.101 to add the band combination CA\_3A-3A-7A-38A**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 10.2.2 UE RF with harmonic, close proximity and isolation issues

#### 10.2.3 UE RF without specific issues

**R4-2208446 Draft CR for 36.101 to introduce new configurations for LTE CA with 3 bands DL and 1 band UL**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208637 Reply LS on FR2 RF requirements applicability under ETC**

*Type: LS out For: Approval  
 to RAN5  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2209018 Draft CR for 36.101 to add CA\_1A-1A-3A-38A\_BCS0 and CA\_1A-1A-3C-38A\_BCS0**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5865 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

**R4-2209019 Draft CR for 36.101 to add CA\_1A-1A-7A-38A\_BCS0**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5866 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

**R4-2209255 Draft CR for 36.101 to add CA\_1A-1A-3A-38A\_BCS0 and CA\_1A-1A-3C-38A\_BCS0**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209256 Draft CR for 36.101 to add CA\_1A-1A-7A-38A\_BCS0**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 10.3 LTE inter-band Carrier Aggregation for x bands DL (x=4, 5) with 1 band UL

#### 10.3.1 Rapporteur Input (WID/TR/CR)

**R4-2209534 Revised WID: LTE Advanced inter-band CA Rel-17 for x bands DL (x=4, 5, 6) with 1 band UL**

*Type: WID revised For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209535 TR 36.717-04-01 v0.9.0**

*Type: draft TR For: Agreement  
 36.717-04-01 v0.9.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209536 Updated scope of TR: LTE inter-band CA for 4/5/6 bands DL with 1 band UL**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209785 Big CR to TS 36.101: LTE Advanced inter-band CA Rel-17 for x bands DL (x=4, 5, 6) with 1 band UL**

*Type: CR For: Approval  
 36.101 v17.5.0 CR-5870 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 10.3.2 UE RF with 4 LTE bands CA

#### 10.3.3 UE RF with 5 LTE bands CA

**R4-2208447 Draft CR for 36.101 to introduce new configurations for LTE CA with X bands DL and 1 band UL**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

### 10.4 LTE inter-band Carrier Aggregation for 2 bands DL with 2 band UL

#### 10.4.1 Rapporteur Input (WID/TR/CR)

**R4-2209173 Big CR for TS 36.101: Introduction of completed LTE CA for 2 bands DL with 2 bands UL (Rel-17)**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5868 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209174 Revised WID for LTE inter-band CA for 2 bands DL with 2 bands UL**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209250 TR 36.717-02-02 v0.5.0**

*Type: draft TR For: Agreement  
 36.717-02-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

**R4-2209814 TR 36.717-02-02 v0.6.0**

*Type: draft TR For: Agreement  
 36.717-02-02 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 10.4.2 UE RF with harmonic, close proximity and isolation issues

#### 10.4.3 UE RF without specific issues

**R4-2208445 Draft CR for 36.101 to introduce new configurations for LTE CA with 2 bands DL and 2 bands UL**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208449 TP for TR 36.717-02-02 CA\_1-40**

*Type: pCR For: Approval  
 36.717-02-02 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2208450 TP for TR 36.717-02-02 CA\_28-40**

*Type: pCR For: Approval  
 36.717-02-02 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2210064 draft CR 36101 to add CA\_3C-26A**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 36101 to add CA\_3C-26A

**Decision:** The document was **not treated**.

**R4-2210065 draft CR 36101 to add CA\_7C-26A**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 36101 to add CA\_7C-26A

**Decision:** The document was **not treated**.

### 10.5 LTE inter-band Carrier Aggregation for x bands DL (x= 3, 4, 5) with 2 band UL

#### 10.5.1 Rapporteur Input (WID/TR/CR)

**R4-2207642 TR 36.717-03-02 v0.7.0 TR update for LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17**

*Type: draft TR For: Agreement  
 36.717-03-02 v0.7.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics UK*

**Abstract:**

TR 0.7.0 to complete LTE-A inter-band CA for x bands (x-3,4,5) DL with 2 bands UL WI in Rel-17

**Decision:** The document was **not treated**.

**R4-2207643 Revised WID on LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17**

*Type: WID revised For: Endorsement  
 Source: LG Electronics UK*

**Abstract:**

Revised WID on LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17

**Decision:** The document was **not treated**.

**R4-2207644 Introduction of LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL to TS36.101**

*Type: CR For: Agreement  
 36.101 v17.5.0 CR-5859 rev Cat: B (Rel-17)  
  
 Source: LG Electronics UK*

**Abstract:**

Introduction of LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL to TS36.101

**Decision:** The document was **not treated**.

#### 10.5.2 UE RF with MSD

#### 10.5.3 UE RF without MSD

**R4-2208448 Draft CR for 36.101 to introduce new configurations for LTE CA with X bands DL and 2 bands UL**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Spark*

**Decision:** The document was **not treated**.

**R4-2210060 draft CR 36101 to add CA\_1A-3A-7C-26A, CA\_1A-3C-7A-26A, CA\_1A-3C-7C-26A**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 36101 to add CA\_1A-3A-7C-26A, CA\_1A-3C-7A-26A, CA\_1A-3C-7C-26A

**Decision:** The document was **not treated**.

**R4-2210061 draft CR 36101 to add CA\_1A-3C-26A**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 36101 to add CA\_1A-3C-26A

**Decision:** The document was **not treated**.

**R4-2210062 draft CR 36101 to add CA\_1A-7C-26A**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 36101 to add CA\_1A-7C-26A

**Decision:** The document was **not treated**.

**R4-2210063 draft CR 36101 to add CA\_3A-7C-26A, CA\_3C-7A-26A, CA\_3C-7C-26A**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 36101 to add CA\_3A-7C-26A, CA\_3C-7A-26A, CA\_3C-7C-26A

**Decision:** The document was **not treated**.

### 10.6 RRM for LTE CA basket WIs

#### 10.6.1 RRM Core (36.133)

#### 10.6.2 RRM Perf (36.133)

### 10.7 New WID on Additional LTE bands for UE category M1&M2 and/or NB1&NB2 in Rel-17

#### 10.7.1 Rapporteur Input (WID/TR/CR)

**R4-2209486 new WID Additional LTE bands for UE category M1\_M2 \_NB1\_NB2 in Rel-18**

*Type: WID new For: Endorsement  
 Source: Ericsson*

**Abstract:**

new WID to adding bands for M1/M2/NB1/NB2 in Rel-18

**Decision:** The document was **not treated**.

#### 10.7.2 RF requirements

**R4-2209468 CR on adding B48 for M1/M2/NB1/NB2**

*Type: draftCR For: Endorsement  
 36.101 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1/M2/NB1/NB2

**Decision:** The document was **not treated**.

**R4-2209469 CR on adding B48 for M1/M2/NB1/NB2**

*Type: draftCR For: Endorsement  
 36.104 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1/M2/NB1/NB2

**Decision:** The document was **not treated**.

**R4-2209470 CR on adding B48 for M1/M2/NB1/NB2**

*Type: draftCR For: Endorsement  
 36.133 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1/M2/NB1/NB2

**Decision:** The document was **not treated**.

**R4-2209471 CR on adding B48 for M1/M2/NB1/NB2**

*Type: draftCR For: Endorsement  
 37.104 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1/M2/NB1/NB2

**Decision:** The document was **not treated**.

**R4-2209474 CR on adding B48 for M1**

*Type: draftCR For: Endorsement  
 36.307 v13.14.0 CR- rev Cat: B (Rel-13)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1 in release independent from Rel-13

**Decision:** The document was **not treated**.

**R4-2209475 CR on adding B48 for M1**

*Type: draftCR For: Endorsement  
 36.307 v14.11.0 CR- rev Cat: A (Rel-14)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1 in release independent from Rel-13

**Decision:** The document was **not treated**.

**R4-2209476 CR on adding B48 for M1**

*Type: draftCR For: Endorsement  
 36.307 v15.8.0 CR- rev Cat: A (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1 in release independent from Rel-13

**Decision:** The document was **not treated**.

**R4-2209477 CR on adding B48 for M1**

*Type: draftCR For: Endorsement  
 36.307 v16.4.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1 in release independent from Rel-13

**Decision:** The document was **not treated**.

**R4-2209478 CR on adding B48 for M1**

*Type: draftCR For: Endorsement  
 36.307 v17.0.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M1 in release independent from Rel-13

**Decision:** The document was **not treated**.

**R4-2209479 CR on adding B48 for M2**

*Type: draftCR For: Endorsement  
 36.307 v14.11.0 CR- rev Cat: B (Rel-14)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M2 in release independent from Rel-14

**Decision:** The document was **not treated**.

**R4-2209480 CR on adding B48 for M2**

*Type: draftCR For: Endorsement  
 36.307 v15.8.0 CR- rev Cat: A (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M2 in release independent from Rel-14

**Decision:** The document was **not treated**.

**R4-2209481 CR on adding B48 for M2**

*Type: draftCR For: Endorsement  
 36.307 v16.4.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M2 in release independent from Rel-14

**Decision:** The document was **not treated**.

**R4-2209482 CR on adding B48 for M2**

*Type: draftCR For: Endorsement  
 36.307 v17.0.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for M2 in release independent from Rel-14

**Decision:** The document was **not treated**.

**R4-2209483 CR on adding B48 for NB1/NB2**

*Type: draftCR For: Endorsement  
 36.307 v15.8.0 CR- rev Cat: B (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for NB1/NB2 in release independent from Rel-15

**Decision:** The document was **not treated**.

**R4-2209484 CR on adding B48 for NB1/NB2**

*Type: draftCR For: Endorsement  
 36.307 v16.4.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for NB1/NB2 in release independent from Rel-15

**Decision:** The document was **not treated**.

**R4-2209485 CR on adding B48 for NB1/NB2**

*Type: draftCR For: Endorsement  
 36.307 v17.0.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for NB1/NB2 in release independent from Rel-15

**Decision:** The document was **not treated**.

#### 10.7.3 Others

**R4-2209472 CR on adding B48 for NB1/NB2**

*Type: draftCR For: Endorsement  
 36.141 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for NB1/NB2

**Decision:** The document was **not treated**.

**R4-2209473 CR on adding B48 for NB1/NB2**

*Type: draftCR For: Endorsement  
 37.141 v17.5.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR provides the B48 update for NB1/NB2

**Decision:** The document was **not treated**.

### 10.8 Additional enhancements for NB-IoT and LTE-MTC

**R4-2208677 Discussion and reply LS on UE capability for 16QAM for NB-IoT**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2209487 LS response on UE capability for 16QAM for NB-IoT**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson*

**Abstract:**

Reply for RAN1 LS

**Decision:** The document was **not treated**.

**R4-2209714 Discussion on UE capability for 16QAM for NB-IoT**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on BS demodulation requirements for NB-IoT 16QAM

**Decision:** The document was **not treated**.

#### 10.8.1 UE RF requirement maintenance

#### 10.8.2 BS RF requirement maintenance

#### 10.8.3 BS conformance testing

#### 10.8.4 RRM core requirements maintenance

#### 10.8.5 RRM performance requirements

#### 10.8.6 Demodulation requirements

##### 10.8.6.1 General

##### 10.8.6.2 Demodulation requirements for NB-IoT

###### 10.8.6.2.1 UE demodulation requirements

###### 10.8.6.2.2 BS demodulation requirements

##### 10.8.6.3 Demodulation requirements for MTC

## 11 Rel-18 Study Items for NR

### 11.1 Study on enhanced test methods for FR2 in NR

#### 11.1.1 Maintenance on objectives 1~6

#### 11.1.2 OTA test methods for UE RF, RRM and demodulation for 52.6~71GHz

##### 11.1.2.1 General

###### 11.1.2.1.1 Test system assumption

###### 11.1.2.1.2 UE types

###### 11.1.2.1.3 MU assessment

###### 11.1.2.1.4 Others

##### 11.1.2.2 Test methodology for UE RF

##### 11.1.2.3 Test methodology for RRM

##### 11.1.2.4 Test methodology for UE demodulation and CSI

### 11.2 Study on Efficient utilization of licensed spectrum that is not aligned with existing NR channel bandwidths

**[103-e][134] FS\_NR\_eff\_BW\_util, AI 11.2 – Esther Sienkiewicz**

**R4-2210269 Email discussion summary for [103-e][134] FS\_NR\_eff\_BW\_util**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 11.2.1 General and TR

**R4-2208037 TP to TR 38.844: General Updates**

*Type: pCR For: Approval  
 38.844 v0.8.0 CR- rev Cat: (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **withdrawn**.

**R4-2208040 TP for TR 38.868: Conclusions**

*Type: pCR For: Approval  
 38.844 v0.8.0 CR- rev Cat: (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **withdrawn**.

**R4-2208041 TP to TR 38.844: General Updates**

*Type: pCR For: Approval  
 38.844 v0.8.0 CR- rev Cat: (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208044 TP for TR 38.868: Conclusions**

*Type: pCR For: Approval  
 38.844 v0.8.0 CR- rev Cat: (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2209136 draft TR 38844 v0.0.8**

*Type: draft TR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

implementation of agreed TPs from RAN4 #102-e

**Decision:** The document was **not treated**.

#### 11.2.2 Evaluation of use of larger channel bandwidths than licensed bandwidth

**R4-2208554 TP for wider channel bandwidth**

*Type: pCR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 11.2.2.1 Channel filter assumptions and RB blanking with impacts on UE (ACS, blocking)

**R4-2209319 Further input on performance when using the next larger channel**

*Type: pCR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

##### 11.2.2.2 Signaling and configuration (RAN1/RAN2 impacts) aspects

**R4-2207707 Considerations for wider CBW solutions on Signaling and configuration aspects**

*Type: discussion For: Discussion  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **not treated**.

**R4-2208656 Signalling and configuration aspects of using larger channel bandwidth**

*Type: other For: Approval  
 38.844 v CR- rev Cat: (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208755 TP for 38.844: configuration for the case of larger channel bandwidths than licensed bandwidth**

*Type: pCR For: Approval  
 38.844 v0.0.7 CR- rev Cat: (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

In this text proposal we provide a substantial update of the endorsed TP in R4-2204622 without changing the concept

**Decision:** The document was **not treated**.

##### 11.2.2.3 Other aspects such as detailed solution, complexity, legacy UE, etc

**R4-2208657 TP to TR 38.844: Legacy UE and RAN4 standard impact to Larger Channel BW than licensed BW**

*Type: pCR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2208756 TP for 38.844: configuration for the case of larger channel bandwidths than licensed bandwidth for TDD operation**

*Type: pCR For: Approval  
 38.844 v0.0.7 CR- rev Cat: (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

In this text proposal we describe the larger-bandwidth case for TDD

**Decision:** The document was **not treated**.

**R4-2209031 Further discussion on the Wider CBW approach**

*Type: discussion For: Agreement  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

#### 11.2.3 Evaluation of use of overlapping UE channel bandwidths

##### 11.2.3.1 Overlapping CBWs from network perspective

**R4-2208555 TP for Overlapping UE CBWs from Network Perspective**

*Type: pCR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

###### 11.2.3.1.1 Signaling and configuration (RAN1/RAN2 impacts) aspects

###### 11.2.3.1.2 Other aspects such as detailed solution, complexity, legacy UE, etc

##### 11.2.3.2 Combined UE CBWs (one cell)

###### 11.2.3.2.1 Signaling and configuration (RAN1/RAN2 impacts) aspects

**R4-2208881 TP for 38.844: corrections including the case of combined UE CBW (one cell)**

*Type: pCR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Ericsson Limited*

**Abstract:**

This TP introduces couple of corrections to TR38.844 related to UE carrier bandwidth modification.

**Decision:** The document was **not treated**.

**R4-2209540 TP to TR 38.844: On RAN1 and RAN2 impact for combined UE CBW (one cell)**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

###### 11.2.3.2.2 Other aspects such as detailed solution, complexity, legacy UE, etc

**R4-2209541 TP to TR 38.844: On UE receiver selectivity requirements for combined UE CBW (one cell)**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 11.2.3.3 Overlapping CA (two cells)

**R4-2208556 TP for overlapping CA**

*Type: pCR For: Approval  
 38.844 v0.0.7 CR- rev Cat: (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209032 Further discussion on the overlapping CA approach**

*Type: discussion For: Agreement  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

###### 11.2.3.3.1 Signaling and configuration (RAN1/RAN2 impacts) aspects

###### 11.2.3.3.2 Other aspects such as detailed solution, complexity, legacy UE, etc

##### 11.2.3.4 Overall method comparisons

**R4-2208038 TP to TR 38.844: Method comparisons**

*Type: pCR For: Approval  
 38.844 v0.8.0 CR- rev Cat: (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **withdrawn**.

**R4-2208042 TP to TR 38.844: Method comparisons**

*Type: pCR For: Approval  
 38.844 v0.8.0 CR- rev Cat: (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2208557 TP for overall method comparisons**

*Type: other For: Approval  
 38.844 v CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208658 TP to TR 38.844: Update to summary of wider CBW method**

*Type: pCR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209137 TP to TR 38.844: Section 7 Comparison between different schemes**

*Type: pCR For: Approval  
 38.844 v0.0.8 CR- rev Cat: (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

In this contribution, the following text proposal to update the Clause 7 and to add completeness. Although [2][3] was not ultimately agreed, the TP does capture some points made during revisions in RAN4#102-e

**Decision:** The document was **not treated**.

## 12 Rel-18 Work Items for LTE

### 12.1 Introduction of LTE TDD band in 1670-1675 MHz

**[103-e][127] R18\_LTE\_TDD\_1.6Hz, AI 12.1 – Ojas Choksi**

**R4-2210262 Email discussion summary for [103-e][127] R18\_LTE\_TDD\_1.6Hz**

*Type: other For: Information  
 Source: Moderator (Ligado)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 12.1.1 General

**R4-2207965 Work plan for Introduction of LTE TDD band in 1670 – 1675 MHz**

*Type: Work Plan For: Approval  
 Source: Ligado Networks*

**Decision:** The document was **not treated**.

**R4-2207966 Emission Requirements for LTE TDD band in 1670 – 1675 MHz**

*Type: discussion For: Approval  
 Source: Ligado Networks*

**Decision:** The document was **not treated**.

#### 12.1.2 UE RF requirements

**R4-2209110 n24 emission to 1670 - 1671 MHz**

*Type: discussion For: Discussion  
 Source: Nokia*

**Decision:** The document was **not treated**.

#### 12.1.3 BS RF requirements

**R4-2209539 BS requirements for LTE TDD band in 1670-1675 MHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

## 13 Liaison and output to other groups

**[103-e][135] R17\_Maintenance, AI 13, 5.3.5.2 – Steven Chen**

**R4-2210270 Email discussion summary for [103-e][135] NR\_reply\_LS\_UE\_RF\_Canadan77**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

### 13.1 R17 related

#### 13.1.1 Coordination of R17 gap features (R2-2203879)

#### 13.1.2 Others

### 13.2 R15, R16 related

#### 13.2.1 BWP operation without bandwidth restriction (R2-2204009)

**R4-2207760 On BWP operation without bandwidth restriction**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208399 Reply LS On BWP operation without bandwidth restriction**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2208736 Reply LS on BWP operation without bandwidth restriction**

*Type: LS out For: Approval  
 to RAN2, cc RAN1  
 Source: ZTE Corporation*

**Decision:** The document was **withdrawn**.

**R4-2209245 reply LS on BWP operation without bandwidth restriction**

*Type: LS out For: Approval  
 to RAN2, RAN1  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2209253 BWP operation without bandwidth restriction**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2209769 Discussion on incoming LS from other WGs**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2209916 Discussion of BWP operation without bandwidth restriction**

*Type: LS out For: Approval  
 to RAN2  
 Source: Ericsson*

**Abstract:**

Discussions and draft LS realted to RAN2 incoming LS related to BWP operation without bandwidth restriction.

**Decision:** The document was **not treated**.

#### 13.2.2 FR2 power control for NR-DC

#### 13.2.3 FR2 requirement applicability over ETC

**R4-2207639 On reply to RAN5 on FR2 requirement applicability over ETC**

*Type: other For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

draft LS

**Decision:** The document was **not treated**.

**R4-2208765 Draft reply LS on FR2 Extreme temperature conditions clarifications**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209259 R15 Reply LS on FR2 ETC**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 13.2.4 FR2 UE relative power control tolerance requirements

**R4-2207640 On RAN5 request for change to FR2 UE relative power control tolerance requirements**

*Type: other For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

We propose a technical evaluation to accommodate RAN5 request.

**Decision:** The document was **not treated**.

**R4-2208764 Draft reply LS on FR2 UE relative power control tolerance requirements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 13.2.5 Lower humidity limit in normal temperature test environment (R5-221604)

**R4-2208487 Handling of humidity inconsistency among specifications**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208488 Draft CR to TS 38.101-1 on humidity condition for normal temperature**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208489 Draft CR to TS 38.101-1 on humidity condition for normal temperature**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208490 Draft CR to TS 38.101-1 on humidity condition for normal temperature**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208491 Draft CR to TS 38.101-2 on humidity condition for normal temperature**

*Type: draftCR For: Endorsement  
 38.101-2 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208492 Draft CR to TS 38.101-2 on humidity condition for normal temperature**

*Type: draftCR For: Endorsement  
 38.101-2 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208493 Draft CR to TS 38.101-2 on humidity condition for normal temperature**

*Type: draftCR For: Endorsement  
 38.101-2 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2208766 Draft reply LS on lower humidity limit in normal temperature test environment**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209631 Draft Reply LS on lower humidity limit in normal temperature test environment**

*Type: LS out For: Approval  
 to RAN5  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 13.2.6 Additional RF requirements for NS\_03U, NS\_05U and NS\_43U (R5-221613)

**R4-2209091 Discussion on the LS on Additional RF requirements for NS\_03U, NS\_05U and NS\_43U**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2209368 Reply LS on Additional RF requirements for NS\_03U, NS\_05U and NS\_43U**

*Type: LS out For: Approval  
 to RAN5  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209369 CR for 38.101-1 to clarify ASE ASEM for NS\_03U, NS\_05U and NS\_43U (R15)**

*Type: CR For: Agreement  
 38.101-1 v15.17.0 CR-1095 rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209370 CR for 38.101-1 to clarify ASE ASEM for NS\_03U, NS\_05U and NS\_43U(R16)**

*Type: CR For: Agreement  
 38.101-1 v16.11.0 CR-1096 rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209371 CR for 38.101-1 to clarify ASE ASEM for NS\_03U, NS\_05U and NS\_43U (R17)**

*Type: CR For: Agreement  
 38.101-1 v17.5.0 CR-1097 rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2210208 Applicability of requirements for NS\_xxU**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210209 Applicability of requirements for NS\_xxU**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210210 Applicability of requirements for NS\_xxU**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210211 Reply LS on Additional RF requirements for NS\_03U, NS\_05U and NS\_43U**

*Type: LS out For: Approval  
 to RAN5  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 13.2.7 SCell dropping in FR2 RF UL-CA tests (R5-221617)

**R4-2207656 Relative power tolerance and RAN5 test solution**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2207681 Reply to RAN5 LS on SCell Dropping in FR2 RF UL-CA tests**

*Type: LS out For: Approval  
 to RAN5  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2208603 Discussion on SCell dropping in FR2 RF UL-CA tests**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2208757 Draft Reply LS on SCell Dropping in FR2 RF UL-CA tests**

*Type: LS out For: Approval  
 to RAN5  
 Source: Ericsson*

**Abstract:**

Draft Reply LS to RAN5 on the Scell dropping case and proposed changes to 38.101-2

**Decision:** The document was **not treated**.

**R4-2208767 Draft reply LS on SCell Dropping in FR2 RF UL-CA tests**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209419 R16 LS reply on SCC dropping**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 13.2.8 Others

**R4-2210204 Configured maximum power in the absence of p-maxEUTRA and p-NR-FR1**

*Type: draftCR For: Endorsement  
 38.101-1 v15.17.0 CR- rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210205 Configured maximum power in the absence of p-maxEUTRA and p-NR-FR1**

*Type: draftCR For: Endorsement  
 38.101-1 v16.11.0 CR- rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210206 Configured maximum power in the absence of p-maxEUTRA and p-NR-FR1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.5.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2210207 Further Reply LS on configuration of p-MaxEUTRA and p-NR-FR1**

*Type: LS out For: Approval  
 to RAN5, cc RAN1, RAN2  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

## 14 Revision of the Work Plan

**[103-e][137] R18\_basket\_WI, AI 14, 15 – RAN4 Chair**

**R4-2210272 Email discussion summary for [103-e][137] R18\_basket\_WI**

*Type: other For: Information  
 Source: Moderator (RAN4 Chair)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

### 14.1 Discussions on R18 basket work items

**R4-2207904 New WID for Rel-18 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID new For: (not specified)  
 Source: CHTTL*

**Decision:** The document was **not treated**.

**R4-2208337 New WID: High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x=1,2)**

*Type: discussion For: Information  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2208338 New WID: Downlink interruption for NR and EN-DC band combinations to conduct dynamic Tx Switching in Uplink**

*Type: discussion For: Information  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2208562 Rel-18 WID: Dual Connectivity (DC) of 2 bands LTE inter-band CA (2DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2208680 Handling of RAN4 band combination basket WIDs in Rel-18**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208905 Draft Basket WID on adding channel bandwidth support to existing NR bands**

*Type: WID new For: Information  
 Source: Ericsson*

**Abstract:**

This contribution is new Rel-18 basket WI for adding new channel BW in existing NR bands

**Decision:** The document was **not treated**.

**R4-2209185 New WID on Rel-18 Power Class 2 UE for NR inter-band CA/DC with or without SUL configurations with x (6>=x>2) bands DL and y (y=1, 2) bands UL**

*Type: WID new For: Agreement  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

**R4-2209372 New WID on Band combinations for SA NR Supplementary uplink (SUL), NSA NR SUL, NSA NR SUL with UL sharing from the UE perspective (ULSUP)**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209373 New WID on NR inter-band CA for 5 bands DL with x bands UL (x=1, 2)**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209374 New WID on Rel-18 Dual Connectivity (DC) of x bands (x=1,2) LTE inter-band CA (xDL1UL) and 4 bands NR inter-band CA (4DL1UL)**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209522 Release 18 baskets for two band and three band BC with UL configurations including intra-band ULCA**

*Type: discussion For: Approval  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution, we make a proposal to have dedicated baskets for two bands and three band DL BC with UL configurations including intra-band ULCA. Band combinations in these baskets would be treated in the "not for block approval" AI like in Release

**Decision:** The document was **not treated**.

**R4-2209555 New Rel-18 WID: NR Intra-band**

*Type: WID new For: Information  
 Source: Ericsson*

**Abstract:**

New Rel-18 WID: NR Intra-band

**Decision:** The document was **not treated**.

**R4-2209556 New Rel-18 WID: LTE 3DL and one NR band**

*Type: WID new For: Information  
 Source: Ericsson*

**Abstract:**

New Rel-18 WID: LTE 3DL and one NR band

**Decision:** The document was **not treated**.

**R4-2209557 New Rel-18 WID: NR CA 4DL/xUL**

*Type: WID new For: Information  
 Source: Ericsson*

**Abstract:**

New Rel-18 WID: NR CA 4DL/xUL

**Decision:** The document was **not treated**.

**R4-2209558 New Rel-18 WID: PC2 for EN-DC with x LTE band + y NR TDD band (x= 2, 3, 4, y=1; x=1, 2, y=2)**

*Type: WID new For: Information  
 Source: Ericsson*

**Abstract:**

New Rel-18 WID: PC2 for EN-DC with x LTE band + y NR TDD band (x= 2, 3, 4, y=1; x=1, 2, y=2)

**Decision:** The document was **not treated**.

**R4-2209559 New Rel-18 WID: PC1.5 for NR CA with xDL and 2UL (1FDD+1TDD); (x= 2, 3, 4)**

*Type: WID new For: Information  
 Source: Ericsson*

**Abstract:**

New Rel-18 WID: PC1.5 for NR CA with xDL and 2UL (1FDD+1TDD); (x= 2, 3, 4)

**Decision:** The document was **not treated**.

**R4-2209739 New WID: LTE Advanced inter-band CA Rel-18 for x bands DL (x=4, 5, 6) with 1 band UL**

*Type: WID new For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2209759 New WID: Additional NR bands for UL-MIMO in Rel-18**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Abstract:**

Spectrum basket WID proposal for Rel-18.

**Decision:** The document was **not treated**.

**R4-2209760 New WID: Rel-18 LTE inter-band CA for 2 bands DL with 2 band UL**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Abstract:**

Spectrum basket WID proposal for Rel-18.

**Decision:** The document was **not treated**.

**R4-2209761 New WID: Rel-18 simultaneous Rx/Tx band combinations for NR CA/DC, NR SUL and LTE/NR DC**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Abstract:**

Spectrum basket WID proposal for Rel-18.

**Decision:** The document was **not treated**.

**R4-2210106 New Rel-18 WID on DC of 4 bands LTE inter-band CA (4DL1UL) and 1 NR band (1DL1UL)**

*Type: WID new For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

### 14.2 Others

**R4-2209426 High new WID Power UE support for band n100 for Rail Mobile Radio (RMR) in Europe**

*Type: WID new For: Information  
 Source: Union Inter. Chemins de Fer*

**Decision:** The document was **not treated**.

**R4-2209428 New WID High Power UE support for band n101 for Rail Mobile Radio (RMR) in Europe**

*Type: WID new For: Information  
 Source: Union Inter. Chemins de Fer*

**Decision:** The document was **not treated**.

**R4-2209757 Revised WID: RF requirements enhancement for NR FR1 (R17)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2209758 Revised WID: Further RF requirements enhancement for NR and EN-DC in FR1 (R18)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

## 15 Any other business

**R4-2207701 New WID on high power UE for NR inter-band CA with 2 bands UL and 2 bands DL with 26dBm on FDD band**

*Type: WID new For: Information  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R4-2207702 New WID on high power UE (power class 2) for NR FDD bands**

*Type: WID new For: Information  
 Source: China Unicom*

**Decision:** The document was **not treated**.

**R4-2208718 Motivation on basket WID on 4Rx and 8Rx bands**

*Type: other For: Information  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2208719 New WID on 4Rx\_8Rx support for NR bands**

*Type: other For: Information  
 Source: ZTE,China Telecom*

**Decision:** The document was **not treated**.

**R4-2209607 New WID for Power Class 1.5 for NR TDD-TDD intra-band combination**

*Type: WID new For: Information  
 Source: Verizon*

**Decision:** The document was **not treated**.

**R4-2209616 CR to TR 38.862 on cleanup clauses**

*Type: CR For: Approval  
 38.862 v17.0.0 CR-0001 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

## 16 Close of the E-meeting

Report prepared by: MCC

## BACKUP

**R4-22ABABA Big CR for TS 3x.1xx (Rel-13)**

*Type: CR For: Agreement  
 38.1xx-0y v16.2.0 CR- rev Cat: F (Rel-1x)  
  
 Source: XXXX*

**Decision: Return to.**

**R4-22AAAAA Email discussion summary for [103-e][10x] x**

*Type: other For: Information  
 Source: Moderator (xxx)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**[103-e][10x] R17\_Maintenance, AI x.x.x – XX**

**Conclusions after 1st round**

**Conclusions after 2nd round**

**Decision: Return to.**

**R4-22AABBA WF on**

*Type: other For: Approval  
 Source: XXXX*

**Abstract:**

*Type: CR For: Agreement  
 38.1xx-0y v16.2.0 CR- rev Cat: F (Rel-1x)*

**Decision: Return to.**