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

**DRAFT Meeting Report  
for  
TSG RAN WG4  
meeting: bis-e**

**Electronic Meeting, Online, 12/04/2021 to 20/04/2021**

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## 1 Opening of the meeting

## 2 Approval of the agenda

**R4-2104436 RAN4#98-e Meeting Report**

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

**Decision: Approved.**

**R4-2107131 Agenda for RAN4#98-bis-e**

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

**Decision: Approved.**

**R4-2107132 RAN4#98-bis-e E-meeting Arrangements and Guidelines**

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

**Decision: Approved.**

**R4-2105235 RAN4 Meeting Efficiency Improvements**

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

**Discussion:**

**Decision: Approved.**

## 3 Election

## 4 Letters / reports from other groups / meetings

**R4-2104438 Spurious emission limits for AAS BS in 6.425 – 7.125 GHz and 10-10.5 GHz**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN4, RAN, cc SE, SE21  
 Source: CEPT ECC PT1*

**Abstract:**

To: RAN4, RAN; Cc: SE, SE21

**Decision: Noted.**

**R4-2104440 Reply LS on CSI-RS only beam correspondence**

*Type: LS in For: Information  
 Original outgoing LS: R4-2009167, to RAN4, cc -  
 Source: RAN1*

**Decision: Noted.**

**R4-2104442 Reply LS on Rel-16 updated RAN4 UE features lists for LTE and NR**

*Type: LS in For: Information  
 Original outgoing LS: R4-2016849, to RAN4, cc -  
 Source: RAN1*

**Decision: Noted.**

**R4-2104443 LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#104-e**

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

**Decision: Noted.**

**R4-2104444 Reply LS on measuring CSI-RS during SCell activation**

*Type: LS in For: Information  
 Original outgoing LS: R4-2017381, to RAN4, cc -  
 Source: RAN1*

**Decision: Noted.**

**R4-2104445 Reply LS on TCI state indication at Direct SCell activation**

*Type: LS in For: Information  
 Original outgoing LS: R4-2017329, to RAN4, RAN2, cc -  
 Source: RAN1*

**Decision: Noted.**

**R4-2104446 Reply LS on SL switching priority**

*Type: LS in For: Information  
 Original outgoing LS: R4-2017839, to RAN4, cc RAN2  
 Source: RAN1*

**Decision: Noted.**

**R4-2104447 LS on uplink Tx switching**

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

**Decision: Noted.**

**R4-2104448 LS on Introduction of DL 1024QAM for NR**

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

**Decision: Noted.**

**R4-2104449 LS on the maximum/minimum channel bandwidth and channelization for NR operation in 52.6 to 71 GHz**

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

**Decision: Noted.**

**R4-2104450 LS on Half-duplex FDD switching time for RedCap UE**

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

**Decision: Noted.**

**R4-2104451 LS on beam switching gap for 60 GHz band**

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

**Decision: Noted.**

**R4-2104452 LS on Agreements Pertaining to L1/L2-Centric Inter-Cell Mobility**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN2, cc RAN4, RAN3  
 Source: RAN1*

**Decision: Noted.**

**R4-2104453 LS on UE transmit timing error**

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

**Decision: Noted.**

**R4-2104455 LS on TCI State Update for L1/L2-Centric Inter-Cell Mobility**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN4, RAN2, RAN3, cc -  
 Source: RAN1*

**Decision: Noted.**

**R4-2104462 LS on NTN UL time and frequency synchronization requirements**

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

**Decision: Noted.**

**R4-2104463 Reply LS on nominal channel spacing calculation for two carriers at band n41 with 40MHz and 80MHz channel bandwidths**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN4, cc -  
 Source: RAN5*

**Decision: Noted.**

**R4-2104470 Clarification on exception requirements for Intermodulation due to Dual uplink (IMD)**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN4, cc -  
 Source: RAN5*

**Decision: Noted.**

**R4-2104471 LS On minimum requirements for Transmit ON/OFF time mask in UL MIMO FR1**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN4, cc -  
 Source: RAN5*

**Decision: Noted.**

**R4-2104472 Reply LS on questions to RAN WGs on dual Radio UE (2Rx/2Tx or 2Rx/1Tx) support for simultaneous communication with both SNPN and PLMN**

*Type: LS in For: Information  
 Original outgoing LS: -, to SA2, cc RAN4  
 Source: RAN2*

**Decision: Noted.**

**R4-2104473 Reply LS on Use of Inclusive Language in 3GPP**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN, SA, RAN4, CT1, cc -  
 Source: RAN2*

**Decision: Noted.**

**R4-2104474 LS on neighbour cell measurement in NB-IoT RRC\_CONNECTED state**

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

**Decision: Noted.**

**R4-2104475 Reply LS on DC location reporting for intra-band UL CA**

*Type: LS in For: Information  
 Original outgoing LS: R4-2016817, to RAN4, cc RAN1  
 Source: RAN2*

**Decision: Noted.**

**R4-2104476 Reply LS on Rel-16 mandatory RRM requirements**

*Type: LS in For: Information  
 Original outgoing LS: R4-2017803, to RAN4, cc RAN5  
 Source: RAN2*

**Decision: Noted.**

**R4-2104477 LS Reply on RRC based BWP switch**

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

**Decision: Noted.**

**R4-2104478 Reply LS on simultaneous Rx/Tx capability**

*Type: LS in For: Information  
 Original outgoing LS: R4-2016988, to RAN4, cc -  
 Source: RAN2*

**Decision: Noted.**

**R4-2105105 FREQUENCY ARRANGEMENTS FOR IMT IN THE BAND 470 – 703 MHZ**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN4, RAN, cc -  
 Source: AWG-27*

**Decision: Noted.**

## 5 Rel-16 non-spectrum related work items for NR

### 5.8 R16 NR maintenance

**R4-2105018 Draft CR on spurious emission between n40 and n41 into Rel-16 TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v16.7.0 CR- rev Cat: A (Rel-16)  
  
 Source: CMCC,Huawei, HiSilicon, ZTE, OPPO,CATT*

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

**R4-2105019 Draft CR on spurious emission between n40 and n41 into Rel-17 TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: CMCC,Huawei, HiSilicon,ZTE, OPPO, CATT*

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

**R4-2106672 Discussion on spurious emission about UE co-existence between band n40 and n41**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

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

#### 5.8.1 Transmit diversity and power class related to UL MIMO

**R4-2105174 Email discussion summary for [98-bis-e][101] NR\_TxD**

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

**Discussion:**

**Decision: Revised to R4-2105440.**

**R4-2105440 Email discussion summary for [98-bis-e][101] NR\_TxD**

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

**Discussion:**

**Decision: Return to.**

**R4-2105330 Way forward on NR TxD & Power Class**

*Type: other For: Approval*

*Source:vivo*

**Discussion:**

**Decision: Return to.**

**R4-2105331 Way forward on MPR evaluation for NR TxD & UL-MIMO**

*Type: other For: Approval*

*Source:vivo, Skyworks*

**Discussion:**

**Decision: Return to.**

##### 5.8.1.1 R16 support of transmit diversity

**R4-2104485 Remaining issues on NR transparent TxD**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision: Noted.**

**R4-2104538 Remaining issues in Transparent Tx Diversity**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2105082 Requirements for transparent TxD**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we propose that the power capability and EVM of TxD capable UEs are discussed further before agreement of a Rel-16 CR. We also discuss the implications for PC1.5.

**Decision: Noted.**

**R4-2106558 R16 TxD testing issues**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2107112 Discussion on FR1 Tx Diversity EVM measurements**

*Type: discussion For: Approval  
 Source: Rohde & Schwarz*

**Decision: Noted.**

**R4-2107283 TxD MPR and SRS ant switching**

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

**Decision: Noted.**

**R4-2107306 On remaining issues for TxD**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107307 draft CR for TS 38.101-1 Tx diversity requirements**

*Type: draftCR For: Endorsement  
 38.101-1 v16.7.0 CR- rev Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon, vivo, OPPO*

**Decision: Postponed.**

**R4-2107367 On the EVM Definition for Transmit Diversity and Single Layer Transmission**

*Type: discussion For: Approval  
 Source: Motorola Mobility España SA*

**Decision: Noted.**

**R4-2107368 On the EVM Definition for Transmit Diversity and Single Layer Transmission**

*Type: discussion For: Approval  
 Source: Motorola Mobility España SA*

**Decision: Noted.**

**R4-2107369 On the EVM Definition for Transmit Diversity and Single Layer Transmission**

*Type: discussion For: Approval  
 Source: Lenovo, Motorola Mobility*

**Decision: Noted.**

##### 5.8.1.2 Power class related to UL MIMO and other related req. (MPR, SEM, etc)

**R4-2104486 Discussion on power class related issues and the corresponding reply LS**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision: Noted.**

**R4-2104487 Draft CR on resolving NR power class ambiguity issue for an intra-band PC2 EN-DC UE**

*Type: draftCR For: Endorsement  
 38.101-3 v15.13.0 CR- rev Cat: (Rel-15)  
  
 Source: ZTE Wistron Telecom AB*

**Decision: Not pursued.**

**R4-2104539 Remaining issues in Power class & UL MIMO related requirments**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2105083 NSA power class for Rel-15, its verification, applicability of TxD and power fall-back of SA UL-MIMO.**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we propose that Option 1 for Rel-15 NSA power class is adopted, and consider its verification and implications of TxD. The power-class fallback of SA UL-MIMO Rel-15 is also discussed.

**Decision: Noted.**

**R4-2105084 Correction of Pcmax for an NR PC2 UE supporting NR PC3 for EN-DC**

*Type: draftCR For: Endorsement  
 38.101-3 v15.13.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

CR to correct Pcmax for EN-DC to avoid power ambiguity

**Decision: Not pursued.**

**R4-2106368 Draft CR to TS38.101-1: Correction on frequency separation classes and configured transmitted power for NR non-contiguous CA**

*Type: draftCR For: Approval  
 38.101-1 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**R4-2106369 Draft CR to TS38.101-1: Correction on frequency separation classes and configured transmitted power for NR non-contiguous CA**

*Type: draftCR For: Approval  
 38.101-1 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

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

**R4-2106370 Draft CR to TS38.101-1: Add missing CA\_n1A-n3A-n78A**

*Type: draftCR For: Approval  
 38.101-1 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**R4-2106371 Draft CR to TS38.101-1: Add missing CA\_n1A-n3A-n78A**

*Type: draftCR For: Approval  
 38.101-1 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation, China Telecom*

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

**R4-2106372 Draft CR to TS38.101-2: Some Corrections on for CA\_n260-n261**

*Type: draftCR For: Approval  
 38.101-2 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation, Verizon*

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

**R4-2106373 Draft CR to TS38.101-2: Some Corrections on for CA\_n260-n261**

*Type: draftCR For: Approval  
 38.101-2 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation, Verizon*

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

**R4-2106546 Draft CR for 38.101-1 Rel16 corrections on power tolerance for intra-band contiguous CA**

*Type: draftCR For: Endorsement  
 38.101-1 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Xiaomi*

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

**R4-2106547 Draft CR for 38.101-1 Rel17 corrections on power tolerance for intra-band contiguous CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

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

**R4-2106903 Draft CR for TS 38.101-1: Intra-band UL CA power class corrections**

*Type: draftCR For: Endorsement  
 38.101-1 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

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

**R4-2107113 Discussion on FR1 UL MIMO EVM measurements**

*Type: discussion For: Approval  
 Source: Rohde & Schwarz*

**Decision: Noted.**

**R4-2107285 Handling power class ambiguity**

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

**Decision: Noted.**

**R4-2107308 Discussion and draft reply LS on EN-DC power class**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107309 draft CR for TS 38.101-3 Correction on EN-DC power class**

*Type: draftCR For: Endorsement  
 38.101-3 v15.13.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision: Not pursued.**

**R4-2107336 MPR for PC1.5 compared to 2Tx PC2**

*Type: discussion For: Approval  
 Source: T-Mobile USA*

**Decision: Noted.**

#### 5.8.2 NR-DC Cell-grouping UE capability

**R4-2105175 Email discussion summary for [98-bis-e][102] NR\_LTE\_NR\_DC\_CA\_enh**

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

**Discussion:**

**Decision: Revised to R4-2105441.**

**R4-2105441 Email discussion summary for [98-bis-e][102] NR\_LTE\_NR\_DC\_CA\_enh**

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

**Discussion:**

**Decision: Return to.**

**R4-2104488 Discussion on reply LS to RAN2 on cell grouping capability for NR DC**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision: Noted.**

**R4-2106670 Discussion and draft Reply LS on cell grouping UE capability for NR-DC**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107355 Reply LS on Introduction of Cell Grouping UE capability for NR-DC**

*Type: LS out For: Approval  
 to RAN2, cc RAN1  
 Source: Qualcomm Incorporated*

**Decision: Revised to R4-2105333.**

**R4-2105333 Reply LS on Introduction of Cell Grouping UE capability for NR-DC**

*Type: LS out For: Approval  
 to RAN2, cc RAN1  
 Source: Qualcomm Incorporated*

**Decision: Return to.**

## 6 Rel-16 UE feature list

**R4-2105176 Email discussion summary for [98-bis-e][103] R16\_UE\_ feature**

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

**Discussion:**

**Decision: Revised to R4-2105442.**

**R4-2105442 Email discussion summary for [98-bis-e][103] R16\_UE\_ feature**

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

**Discussion:**

**Decision: Return to.**

**R4-2104858 On R16 NR HST UE capabilitiesOn R16 NR HST UE capabilities**

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

**Decision: Noted.**

**R4-2106442 Discussion on UE capabilities**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision: Noted.**

**R4-2106989 Discussion on per-FR gap capability**

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

**Decision: Noted.**

**R4-2107272 On intrabandENDC-support IE**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

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

## 7 Rel-17 spectrum related Work Items for NR

### 7.1 NR intra band Carrier Aggregation for xCC DL/yCC UL including contiguous and non-contiguous spectrum (x>=y)

**R4-2105177 Email discussion summary for [98-bis-e][104] NR\_Baskets\_Part\_1**

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

**Discussion:**

**Decision: Noted.**

#### 7.1.1 Rapporteur Input (WID/TR/CR)

**R4-2106696 Revised WID NR Intra-band Rel-17**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

Revised WID NR Intra-band Rel-17

**Decision: Withdrawn.**

**R4-2106699 CR 38.101-1 introduction completed band combinations Rel-17 NR Intra-band**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-1 introduction completed band combinations Rel-17 NR Intra-band

**Decision: Withdrawn.**

**R4-2106700 CR 38.101-2 introduction completed band combinations Rel-17 NR Intra-band**

*Type: draftCR For: Endorsement  
 38.101-2 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-2 introduction completed band combinations Rel-17 NR Intra-band

**Decision: Withdrawn.**

**R4-2106704 TR 38.717-01-01 v0.4.0 Rel-17 NR Intra-band**

*Type: draft TR For: Endorsement  
 38.717-01-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 38.717-01-01 v0.4.0 Rel-17 NR Intra-band

**Decision:** to be email approved

#### 7.1.2 UE RF for FR1

**R4-2104416 draft CR to 38.101-1: CA\_n66(2A) and CA\_n(3A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105289.**

**R4-2105289 draft CR to 38.101-1: CA\_n66(2A) and CA\_n(3A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Endorsed.**

**R4-2104479 Draft CR to TS 38.101-1 – Adding BCS’es with 30MHz for n48 Intra-band CA**

*Type: draftCR For: (not specified)  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: DISH Network, Charter Communications Inc.*

**Abstract:**

Adding new BCS’es for n48 including 30MHz support

**Decision: Endorsed.**

**R4-2105048 Draft CR for 38.101-1 to introduce BCS2 to CA\_n41C and CA\_n41(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Endorsed.**

**R4-2106648 Updated TP for TR 38.717-01-01: CA\_n77(3A)\_BCS1**

*Type: pCR For: Approval  
 38.717-01-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

#### 7.1.3 UE RF for FR2

**R4-2106724 draft CR 38.101-2 to include new CA configurations n258**

*Type: draftCR For: Endorsement  
 38.101-2 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, US Cellular*

**Abstract:**

draft CR 38.101-2 to include new CA configurations n258

**Decision: Endorsed.**

### 7.2 NR inter-band Carrier Aggregation/Dual Connectivity for 2 bands DL with x bands UL (x=1, 2)

**R4-2105178 Email discussion summary for [98-bis-e][105] NR\_Baskets\_Part\_2**

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

**Discussion:**

**Decision: Noted.**

#### 7.2.1 Rapporteur Input (WID/TR/CR)

**R4-2104913 TR 38.717-02-01 v0.4.0**

*Type: draft TR For: Discussion  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** to be email approved

#### 7.2.2 NR inter band CA without any FR2 band(s)

**R4-2104412 TP to TR 38.717-02-01: CA\_n12-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105236.**

**R4-2105236 TP to TR 38.717-02-01: CA\_n12-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104413 TP to TR 38.717-02-01: CA\_n14-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105237.**

**R4-2105237 TP to TR 38.717-02-01: CA\_n14-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104414 TP to TR 38.717-02-01: CA\_n30-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105238.**

**R4-2105238 TP to TR 38.717-02-01: CA\_n30-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104415 draft CR to 38.101-1: CA\_n2-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Not pursued.**

**R4-2105239 draft CR to 38.101-1: CA\_n2-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Withdrawn.**

**R4-2104417 draft CR to 38.101-1: CA\_n5A-n77(2A) introduction of UL CA\_n77(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Not pursued.**

**R4-2105240 draft CR to 38.101-1: CA\_n5A-n77(2A) introduction of UL CA\_n77(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Withdrawn.**

**R4-2104418 TP to TR 38.717-02-01: CA\_n25A-n71(2A)**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Approved.**

**R4-2105241 TP to TR 38.717-02-01: CA\_n25A-n71(2A)**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Withdrawn.**

**R4-2104419 TP to TR 38.717-02-01: CA\_n41(2A)-n66A**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Approved.**

**R4-2105242 TP to TR 38.717-02-01: CA\_n41(2A)-n66A**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Withdrawn.**

**R4-2104423 TP to TR 38.717-02-01: CA\_n25-n48 combinations**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Approved.**

**R4-2105243 TP to TR 38.717-02-01: CA\_n25-n48 combinations**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Withdrawn.**

**R4-2104454 draft CR adding new DC\_n46-n48 configurations**

*Type: draftCR For: (not specified)  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Charter Communications, Inc*

**Decision: Endorsed.**

**R4-2104507 DraftCR for NR inter band CA DC combinations for 2DL with up to 2 bands UL**

*Type: draftCR For: Approval  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105245.**

**R4-2105245 DraftCR for NR inter band CA DC combinations for 2DL with up to 2 bands UL**

*Type: draftCR For: Approval  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Verizon Denmark*

**Decision: Endorsed.**

**R4-2104640 TP for TR 38.717-02-01: CA\_n1-n20**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

**R4-2104641 TP for TR 38.717-02-01: CA\_n3-n20**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

**R4-2104642 TP for TR 38.717-02-01: CA\_n8-n20**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Noted.**

**R4-2104910 Draft CR for TS 38.101-1: Support of n77(2A) in CA\_n77-n79**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Endorsed.**

**R4-2104911 Draft CR for TS 38.101-1: Support of DC\_n3-n79, DC\_n28-n79 and DC\_n77-n79**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Endorsed.**

**R4-2105055 TP for TR 38.717-02-01: CA\_n1-n18**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105056 TP for TR 38.717-02-01: CA\_n1-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105246 TP for TR 38.717-02-01: CA\_n1-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Withdrawn.**

**R4-2105057 TP for TR 38.717-02-01: CA\_n18-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105058 TP for TR 38.717-02-01: CA\_n18-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105247.**

**R4-2105247 TP for TR 38.717-02-01: CA\_n18-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105059 TP for TR 38.717-02-01: CA\_n18-n78**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105248.**

**R4-2105248 TP for TR 38.717-02-01: CA\_n18-n78**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105060 TP for TR 38.717-02-01: CA\_n40-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Noted.**

**R4-2105249 TP for TR 38.717-02-01: CA\_n40-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Withdrawn.**

**R4-2105061 TP for TR 38.717-02-01: CA\_n74-n78**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105062 TP for TR 38.717-02-01: CA\_n1-n41**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105250.**

**R4-2105250 TP for TR 38.717-02-01: CA\_n1-n41**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105063 TP for TR 38.717-02-01: CA\_n3-n41**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Noted.**

**R4-2105251 TP for TR 38.717-02-01: CA\_n3-n41**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Withdrawn.**

**R4-2105064 TP for TR 38.717-02-01: CA\_n3-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105252.**

**R4-2105252 TP for TR 38.717-02-01: CA\_n3-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105065 TP for TR 38.717-02-01: CA\_n18-n28**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105253.**

**R4-2105253 TP for TR 38.717-02-01: CA\_n18-n28**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105066 TP for TR 38.717-02-01: CA\_n28-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105254.**

**R4-2105254 TP for TR 38.717-02-01: CA\_n28-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Noted.**

**R4-2105067 TP for TR 38.717-02-01: CA\_n41-n74**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105068 TP for TR 38.717-02-01: CA\_n74-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105255.**

**R4-2105255 TP for TR 38.717-02-01: CA\_n74-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Noted.**

**R4-2106382 TP for TR 38.717-02-01: CA\_n34A-n40A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Revised to R4-2105324.**

**R4-2105324 TP for TR 38.717-02-01: CA\_n34A-n40A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Approved.**

**R4-2106491 TP for TR 38.717-02-01: CA\_n13-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Revised to R4-2105256.**

**R4-2105256 TP for TR 38.717-02-01: CA\_n13-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106492 TP for TR 38.717-02-01: CA\_n2-n7**

*Type: pCR For: Approval  
 38.717-02-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Revised to R4-2105257.**

**R4-2105257 TP for TR 38.717-02-01: CA\_n2-n7**

*Type: pCR For: Approval  
 38.717-02-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106493 DraftCR for 38.101-1 to add additional combinations for CA\_n2-n66**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Not pursued.**

**R4-2106494 DraftCR for 38.101-1 to add additional combinations for CA\_n25-n78**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Endorsed.**

**R4-2106572 TP for TR 38.717-02-01: CA\_n24-n41**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ligado Networks*

**Decision: Revised to R4-2105258.**

**R4-2105258 TP for TR 38.717-02-01: CA\_n24-n41**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ligado Networks*

**Decision: Approved.**

**R4-2106585 TP for TR 38.717-02-01: CA\_n24-n48**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ligado Networks*

**Decision: Revised to R4-2105259.**

**R4-2105259 TP for TR 38.717-02-01: CA\_n24-n48**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ligado Networks*

**Decision: Approved.**

**R4-2106586 TP for TR 38.717-02-01: CA\_n24-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ligado Networks*

**Decision: Revised to R4-2105260.**

**R4-2105260 TP for TR 38.717-02-01: CA\_n24-n77**

*Type: pCR For: Approval  
 38.717-02-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ligado Networks*

**Decision: Approved.**

**R4-2106649 TP for TR 38.717-02-01: CA\_n3A-n39A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2105261 TP for TR 38.717-02-01: CA\_n3A-n39A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Withdrawn.**

**R4-2106650 TP for TR 38.717-02-01: CA\_n28A-n71A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2105262.**

**R4-2105262 TP for TR 38.717-02-01: CA\_n28A-n71A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106651 Draft CR for 38.101-1 to correct the configuration table for two bands NR CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Endorsed.**

**R4-2106715 TP for TR 38.717-02-01 to include CA\_n2A-n30A, CA\_n2(2A)-n30A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 38.717-02-01 to include CA\_n2A-n30A, CA\_n2(2A)-n30A

**Decision: Approved.**

**R4-2105263 TP for TR 38.717-02-01 to include CA\_n2A-n30A, CA\_n2(2A)-n30A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 38.717-02-01 to include CA\_n2A-n30A, CA\_n2(2A)-n30A

**Decision: Withdrawn.**

**R4-2106716 TP for TR 38.717-02-01 to include CA\_n5A-n30A, UL CA\_n2A-n30A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 38.717-02-01 to include CA\_n5A-n30A, UL CA\_n2A-n30A

**Decision: Revised to R4-2105264.**

**R4-2105264 TP for TR 38.717-02-01 to include CA\_n5A-n30A, UL CA\_n2A-n30A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 38.717-02-01 to include CA\_n5A-n30A, UL CA\_n2A-n30A

**Decision: Approved.**

**R4-2106717 TP for TR 38.717-02-01 to include CA\_n30A-n66A, CA\_n30A-n66(2A), CA\_n30A-n66(3A), UL CA\_n30A-n66A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 38.717-02-01 to include CA\_n30A-n66A, CA\_n30A-n66(2A), CA\_n30A-n66(3A), UL CA\_n30A-n66A

**Decision: Approved.**

**R4-2106722 draft CR 38.101-1 to include new CA configurations n2-n5, n2-n66, n5-n66**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-1 to include new CA configurations n2-n5, n2-n66, n5-n66

**Decision: Revised to R4-2105265.**

**R4-2105265 draft CR 38.101-1 to include new CA configurations n2-n5, n2-n66, n5-n66**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-1 to include new CA configurations n2-n5, n2-n66, n5-n66

**Decision: Endorsed.**

**R4-2106772 TP for TR 38.717-02-01 to include new BCS's and UL configurations n25-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurations n25-n71

**Decision: Revised to R4-2105266.**

**R4-2105266 TP for TR 38.717-02-01 to include new BCS's and UL configurations n25-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurations n25-n71

**Decision: Approved.**

**R4-2106773 TP for TR 38.717-02-01 to include new BCS's and UL configurations n41-n66**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurations n41-n66

**Decision: Revised to R4-2105267.**

**R4-2105267 TP for TR 38.717-02-01 to include new BCS's and UL configurations n41-n66**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurations n41-n66

**Decision: Approved.**

**R4-2106774 TP for TR 38.717-02-01 to include new BCS's and UL configurationsn41A-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurationsn41A-n71

**Decision: Revised to R4-2105268.**

**R4-2105268 TP for TR 38.717-02-01 to include new BCS's and UL configurationsn41A-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurationsn41A-n71

**Decision: Approved.**

**R4-2106775 TP for TR 38.717-02-01 to include new BCS's and UL configurations n66-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurations n66-n71

**Decision: Revised to R4-2105269.**

**R4-2105269 TP for TR 38.717-02-01 to include new BCS's and UL configurations n66-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for TR 38.717-02-01 to include new BCS's and UL configurations n66-n71

**Decision: Approved.**

**R4-2107200 TP to TR 38.717-02-01 Addition of CA\_48-53**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Globalstar*

**Decision: Revised to R4-2105270.**

**R4-2105270 TP to TR 38.717-02-01 Addition of CA\_48-53**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Globalstar*

**Decision: Approved.**

#### 7.2.3 NR inter band CA with at least one FR2 band

**R4-2104508 DraftCR for FR2 inter-band CA**

*Type: draftCR For: Approval  
 38.101-2 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105271.**

**R4-2105271 DraftCR for FR2 inter-band CA**

*Type: draftCR For: Approval  
 38.101-2 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Verizon Denmark*

**Decision: Endorsed.**

**R4-2105049 Draft CR for 38.101-3 to introduce new configurations of DC\_n3-n257, DC\_n41-n257 and DC\_n78-n257**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Endorsed.**

**R4-2106495 DraftCR for 38.101-3 to add CA\_n66A-n260M BCS1**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Endorsed.**

**R4-2106756 draft CR 38.101-3 to include new CA configurations and new BCS's n1-n258 and n78-n258**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38.101-3 to include new CA configurations and new BCS's n1-n258 and n78-n258

**Decision: Endorsed.**

**R4-2106759 TP for TR 38.717-02-01 to include CA\_n3A-n258A/B/C/D/E/F/G/H/I/J/K/L/M, UL CA\_n3A-n258A**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include CA\_n3A-n258A/B/C/D/E/F/G/H/I/J/K/L/M, UL CA\_n3A-n258A

**Decision: Approved.**

**R4-2106760 TP for TR 38.717-02-01 to include CA\_n7A/B-n258A/B/C/D/E/F/G/H/I/J/K/L/M, UL CA\_n7A-n258A/G/H/I/**

*Type: pCR For: Approval  
 38.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include CA\_n7A/B-n258A/B/C/D/E/F/G/H/I/J/K/L/M, UL CA\_n7A-n258A/G/H/I/

**Decision: Approved.**

**R4-2107042 draft CR for CA\_n1A-n257J/K/L/M with uplink CA support up to CA\_n1A-n257K**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision: Endorsed.**

### 7.3 DC of 1 LTE band and 1 NR band

#### 7.3.1 Rapporteur Input (WID/TR/CR)

**R4-2106888 TR 37.717-11-11 v0.4.0 Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: draft TR For: (not specified)  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision:** to be email approved

**R4-2106913 Revised WID for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID revised For: (not specified)  
 Source: CHTTL*

**Decision: Withdrawn.**

**R4-2106917 Big draft CR for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision: Withdrawn.**

#### 7.3.2 EN-DC without FR2 band

**R4-2104407 TP to TR 37.717-11-11: DC\_2A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105285.**

**R4-2105285 TP to TR 37.717-11-11: DC\_2A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104408 TP to TR 37.717-11-11: DC\_5A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105286.**

**R4-2105286 TP to TR 37.717-11-11: DC\_5A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104409 TP to TR 37.717-11-11: DC\_12A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105287.**

**R4-2105287 TP to TR 37.717-11-11: DC\_12A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104410 TP to TR 37.717-11-11: DC\_66A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2105288.**

**R4-2105288 TP to TR 37.717-11-11: DC\_66A\_n30A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104425 TP to TR 37.717-11-11: DC\_71A\_n71A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Revised to R4-2105290.**

**R4-2105290 TP to TR 37.717-11-11: DC\_71A\_n71A**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Approved.**

**R4-2104506 DraftCR for Rel-17 Dual Connectivity (DC) of 1LTE band and 1NR band (1DL/1UL)**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Verizon Denmark*

**Decision: Endorsed.**

**R4-2105050 TP for TR 37.717-11-11: DC\_11\_n41**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105296.**

**R4-2105296 TP for TR 37.717-11-11: DC\_11\_n41**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105069 TP for TR 37.717-11-11: DC\_66\_n66**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, TELUS, Bell mobility*

**Decision: Revised to R4-2105298.**

**R4-2105298 TP for TR 37.717-11-11: DC\_66\_n66**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, TELUS, Bell mobility*

**Decision: Approved.**

**R4-2106638 TP for TR 37.717-11-11: DC\_38A\_n28A**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2105307.**

**R4-2105307 TP for TR 37.717-11-11: DC\_38A\_n28A**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106707 TP for TR 37.717-11-11 to include DC\_12\_n77**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_12\_n77

**Decision: Revised to R4-2105308.**

**R4-2105308 TP for TR 37.717-11-11 to include DC\_12\_n77**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_12\_n77

**Decision: Approved.**

**R4-2106708 TP for TR 37.717-11-11 to include DC\_14\_n77**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_14\_n77

**Decision: Revised to R4-2105309.**

**R4-2105309 TP for TR 37.717-11-11 to include DC\_14\_n77**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_14\_n77

**Decision: Approved.**

**R4-2106709 TP for TR 37.717-11-11 to include DC\_30\_n77**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_30\_n77

**Decision: Revised to R4-2105310.**

**R4-2105310 TP for TR 37.717-11-11 to include DC\_30\_n77**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_30\_n77

**Decision: Approved.**

**R4-2106710 TP for TR 37.717-11-11 to include DC\_14\_n30**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_14\_n30

**Decision: Revised to R4-2105311.**

**R4-2105311 TP for TR 37.717-11-11 to include DC\_14\_n30**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_14\_n30

**Decision: Approved.**

**R4-2106727 draft CR 38.101-3 to include new DC configuration 8\_n78**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telefonica*

**Abstract:**

draft CR 38.101-3 to include new DC configuration 8\_n78

**Decision: Not pursued.**

**R4-2105316 draft CR 38.101-3 to include new DC configuration 8\_n78**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telefonica*

**Abstract:**

draft CR 38.101-3 to include new DC configuration 8\_n78

**Decision: Withdrawn.**

**R4-2106733 TP for TR 37.717-11-11 to include DC\_2\_n25**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_2\_n25

**Decision: Noted.**

**R4-2105317 TP for TR 37.717-11-11 to include DC\_2\_n25**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_2\_n25

**Decision: Withdrawn.**

**R4-2106734 TP for TR 37.717-11-11 to include DC\_7\_n25**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_7\_n25

**Decision: Revised to R4-2105318.**

**R4-2105318 TP for TR 37.717-11-11 to include DC\_7\_n25**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_7\_n25

**Decision: Approved.**

**R4-2106735 TP for TR 37.717-11-11 to include DC\_13\_n25**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-11 to include DC\_13\_n25

**Decision: Approved.**

**R4-2106919 TP for TR 37.717-11-11: support of DC\_3-3\_n8, DC\_7-7\_n8**

*Type: pCR For: Approval  
 37.717-11-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision: Approved.**

**R4-2107326 Impact of n40 large CBW on DC\_1\_n40**

*Type: discussion For: Approval  
 38.101-3 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision:** The document was **withdrawn**.

#### 7.3.3 EN-DC with FR2 band

**R4-2106639 TP for TR 37.717-11-11: DC\_20\_n257**

*Type: pCR For: Approval  
 37.717-11-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Telecom Italia*

**Decision: Approved.**

**R4-2106640 Draft CR for 38.101-3 to introduce DC\_20\_n258**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Telecom Italia*

**Decision: Endorsed.**

**R4-2106725 draft CR 38.101-3 new configurations for 2\_n261, 12\_n261, 66\_n261**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, US Cellular*

**Abstract:**

draft CR 38.101-3 new configurations for 2\_n261, 12\_n261, 66\_n261

**Decision: Endorsed.**

**R4-2107201 draft CR to add 2A\_n260D-E to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, U.S. Cellular*

**Decision: Endorsed.**

**R4-2107202 draft CR to add 12A\_n260D-Q to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, U.S. Cellular*

**Decision: Endorsed.**

### 7.4 DC of 2 LTE band and 1 NR band

#### 7.4.1 Rapporteur Input (WID/TR/CR)

**R4-2106490 TR 37.717-21-11 V0.4.0 for DC of 2 LTE band and 1 NR band**

*Type: draft TR For: Approval  
 37.717-21-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** to be email approved

#### 7.4.2 EN-DC without FR2 band

**R4-2104406 TP to TR 37.717-21-11: DC\_20-40\_n1**

*Type: pCR For: Approval  
 37.717-21-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Approved.**

**R4-2104411 TP to TR 37.717-21-11: DC\_5A-30A\_n2A**

*Type: pCR For: Approval  
 37.717-21-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Approved.**

**R4-2104721 draft CR for DC\_2-5\_n77, DC\_2-13\_n77, DC\_2-48-n77, DC\_2-66\_n77, DC\_13-66\_n77 to TS 38.101-3**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

ENDC configurations for DC\_2-5\_n77, DC\_2-13\_n77, DC\_2-48-n77, DC\_2-66\_n77, DC\_13-66\_n77 are introduced.

**Decision: Revised to R4-2105292.**

**R4-2105292 draft CR for DC\_2-5\_n77, DC\_2-13\_n77, DC\_2-48-n77, DC\_2-66\_n77, DC\_13-66\_n77 to TS 38.101-3**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

ENDC configurations for DC\_2-5\_n77, DC\_2-13\_n77, DC\_2-48-n77, DC\_2-66\_n77, DC\_13-66\_n77 are introduced.

**Decision: Endorsed.**

**R4-2104722 TP to TR 37.717-21-11 DC\_2-46\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_2A-46A\_n77A is introduced.

**Decision: Revised to R4-2105293.**

**R4-2105293 TP to TR 37.717-21-11 DC\_2-46\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_2A-46A\_n77A is introduced.

**Decision: Approved.**

**R4-2104723 TP to TR 37.717-21-11 DC\_13-46\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_13A-46A\_n77A is introduced.

**Decision: Revised to R4-2105294.**

**R4-2105294 TP to TR 37.717-21-11 DC\_13-46\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_13A-46A\_n77A is introduced.

**Decision: Approved.**

**R4-2104724 TP to TR 37.717-21-11 DC\_46-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_46A-66A\_n77A is introduced.

**Decision: Revised to R4-2105295.**

**R4-2105295 TP to TR 37.717-21-11 DC\_46-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_46A-66A\_n77A is introduced.

**Decision: Approved.**

**R4-2105051 TP for TR 37.717-21-22: DC\_1-11\_n41**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105297.**

**R4-2105297 TP for TR 37.717-21-22: DC\_1-11\_n41**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Revised to R4-2105327.**

**R4-2105327 TP for TR 37.717-21-22: DC\_1-11\_n41**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2106498 TP for TR 37.717-21-11: DC\_2-12\_n7**

*Type: pCR For: Approval  
 37.717-21-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Revised to R4-2105306.**

**R4-2105306 TP for TR 37.717-21-11: DC\_2-12\_n7**

*Type: pCR For: Approval  
 37.717-21-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106499 TP for TR 37.717-21-11: DC\_5A-7A-7A\_n66a**

*Type: pCR For: Approval  
 37.717-21-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106500 TP for TR 37.717-21-11: DC\_2-5\_n78**

*Type: pCR For: Approval  
 37.717-21-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106501 TP for TR 37.717-21-11: DC\_2A-12A\_n78(2A)**

*Type: pCR For: Approval  
 37.717-21-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106502 TP for TR 37.717-21-11: DC\_7-29\_n78**

*Type: pCR For: Approval  
 37.717-21-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106641 TP for TR 37.717-21-11: DC\_1A-38A\_n28A**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106642 TP for TR 37.717-21-11: DC\_3A-38A\_n28A/ DC\_3C-38A\_n28A**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106711 TP for TR 37.717-21-11 to include 14-30\_n66**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-21-11 to include 14-30\_n66

**Decision: Revised to R4-2105312.**

**R4-2105312 TP for TR 37.717-21-11 to include 14-30\_n66**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-21-11 to include 14-30\_n66

**Decision: Approved.**

**R4-2106712 TP for TR 37.717-21-11 to include 14-30\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-21-11 to include 14-30\_n2

**Decision: Approved.**

**R4-2106713 TP for TR 37.717-21-11 to include 2-(n)5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-21-11 to include 2-(n)5

**Decision: Approved.**

**R4-2105313 TP for TR 37.717-21-11 to include 2-(n)5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-21-11 to include 2-(n)5

**Decision: Withdrawn.**

**R4-2106714 TP for TR 37.717-21-11 to include 30-(n)5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-21-11 to include 30-(n)

**Decision: Approved.**

**R4-2105314 TP for TR 37.717-21-11 to include 30-(n)5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37.717-21-11 to include 30-(n)

**Decision: Withdrawn.**

**R4-2106726 TP for TR 37.717-21-11 to include 28-40\_n78**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telefonica*

**Abstract:**

TP for TR 37.717-21-11 to include 28-40\_n78

**Decision: Revised to R4-2105315.**

**R4-2105315 TP for TR 37.717-21-11 to include 28-40\_n78**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telefonica*

**Abstract:**

TP for TR 37.717-21-11 to include 28-40\_n78

**Decision: Approved.**

**R4-2106728 draft CR 38.101-3 to include new configurations for DC\_3-20\_n78**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telefonica*

**Abstract:**

draft CR 38.101-3 to include new configurations for DC\_3-20\_n78

**Decision: Endorsed.**

**R4-2106736 TP for TR 37.717-21-11 to include 2-7\_n25**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-21-11 to include 2-7\_n25

**Decision: Noted.**

**R4-2106737 TP for TR 37.717-21-11 to include 2-13\_n25**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-21-11 to include 2-13\_n25

**Decision: Noted.**

**R4-2106738 TP for TR 37.717-21-11 to include 2-66\_n25**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-21-11 to include 2-66\_n25

**Decision: Noted.**

**R4-2106739 TP for TR 37.717-21-11 to include DC\_7-13\_n25**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-21-11 to include DC\_7-13\_n25

**Decision: Approved.**

**R4-2106740 TP for TR 37.717-21-11 to include DC\_7-66\_n25**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-21-11 to include DC\_7-66\_n25

**Decision: Approved.**

**R4-2106754 draft CR 38.101-3 to include new configurations for DC\_2-7\_n66**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

draft CR 38.101-3 to include new configurations for DC\_2-7\_n66

**Decision: Endorsed.**

**R4-2106761 TP for TR 37.717-21-11 to include 3-7\_n3**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-21-11 to include 3-7\_n3

**Decision: Approved.**

**R4-2106762 TP for TR 37.717-21-11 to include 3-28\_n3**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-21-11 to include 3-28\_n3

**Decision: Approved.**

**R4-2106925 TP for TR 37.717-21-11: support of DC\_3-3-7\_n8, DC\_3-7-7\_n8, DC\_3-3-7-7\_n8**

*Type: pCR For: Approval  
 37.717-21-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision: Approved.**

**R4-2107203 TP to TR 37.717-21-11 Addition of DC\_13-46\_n66**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Revised to R4-2105319.**

**R4-2105319 TP to TR 37.717-21-11 Addition of DC\_13-46\_n66**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Approved.**

**R4-2107204 TP to TR 37.717-21-11 Addition of DC\_46-48\_n66**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Revised to R4-2105320.**

**R4-2105320 TP to TR 37.717-21-11 Addition of DC\_46-48\_n66**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Approved.**

**R4-2107205 draft CR to add DC\_2A-46E\_n66A to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Endorsed.**

**R4-2107206 TP to TR 37.717-21-11 Addition of DC\_2-46\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Revised to R4-2105321.**

**R4-2105321 TP to TR 37.717-21-11 Addition of DC\_2-46\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Approved.**

**R4-2107207 TP to TR 37.717-21-11 Addition of DC\_46-48\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Revised to R4-2105322.**

**R4-2105322 TP to TR 37.717-21-11 Addition of DC\_46-48\_n5**

*Type: pCR For: Approval  
 37.717-21-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Approved.**

**R4-2107208 draft CR to add DC\_13A-66A-66A\_n5A to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Endorsed.**

#### 7.4.3 DMEN-DC with FR2 band

**R4-2104426 draft CR to 38.101-3: DC\_13-46-n261 addition of UL configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Endorsed.**

**R4-2106723 draft CR 38.101-3 to include new configurations for DC\_2-66\_n260**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR 38.101-3 to include new configurations for DC\_2-66\_n260

**Decision: Endorsed.**

**R4-2107044 draft CR for DC\_7-8\_n257, DC\_7-7-8\_n257, DC\_3-3-8\_n257**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

**Decision: Endorsed.**

### 7.5 DC of 3 LTE band and 1 NR band

#### 7.5.1 Rapporteur Input (WID/TR/CR)

**R4-2106697 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: Withdrawn.**

**R4-2106701 CR 38.101-3 introduction completed band combinations LTE 3DL and one NR band**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-3 introduction completed band combinations LTE 3DL and one NR band

**Decision: Withdrawn.**

**R4-2106705 TR 37.717-31-11 v0.4.0 Rel-17 DC combinations LTE 3DL and one NR band**

*Type: draft TR For: Endorsement  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 37.717-31-11 v0.4.0 Rel-17 DC combinations LTE 3DL and one NR band

**Decision:** to be email approved

#### 7.5.2 EN-DC without FR2 band

**R4-2104403 TP to TR 37.717-31-11: DC\_1A-28A-40A\_n78A**

*Type: pCR For: Approval  
 37.717-31-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Revised to R4-2105282.**

**R4-2105282 TP to TR 37.717-31-11: DC\_1A-28A-40A\_n78A**

*Type: pCR For: Approval  
 37.717-31-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Approved.**

**R4-2104404 TP to TR 37.717-31-11: DC\_3A-28A-40A\_n78A**

*Type: pCR For: Approval  
 37.717-31-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Revised to R4-2105283.**

**R4-2105283 TP to TR 37.717-31-11: DC\_3A-28A-40A\_n78A**

*Type: pCR For: Approval  
 37.717-31-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Approved.**

**R4-2104711 draft CR DC\_5-7-7-66\_n66 to TS 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_5A-7A-7A-66A\_n66A is introduced.

**Decision: Revised to R4-2105291.**

**R4-2105291 draft CR DC\_5-7-7-66\_n66 to TS 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

DC\_5A-7A-7A-66A\_n66A is introduced.

**Decision: Endorsed.**

**R4-2104872 CR to TS 38.101-3 on delta TIB correction**

*Type: CR For: Approval  
 38.101-3 v16.7.0 CR-0510 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.101-3 on delta TIB correction

**Decision:** The document was **withdrawn**.

**R4-2104873 CR to TS 38.101-3 on delta TIB correction (CAT A)**

*Type: CR For: Approval  
 38.101-3 v17.1.0 CR-0511 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.101-3 on delta TIB correction (CAT A)

**Decision:** The document was **withdrawn**.

**R4-2105047 Draft CR for 38.101-3 to introduce DC\_1A-11A-18A\_n77(2A) and DC\_1A-11A-18A\_n78(2A)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Endorsed.**

**R4-2105052 TP for TR 37.717-31-11: DC\_1-11-18\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105053 TP for TR 37.717-31-11: DC\_1-11-18\_n28**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105054 TP for TR 37.717-31-11: DC\_1-11-18\_n41**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: samsung,KDDI*

**Decision: Approved.**

**R4-2105075 TP for TR 37.717-31-11: DC\_2-5-66\_n48**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Approved.**

**R4-2105076 TP for TR 37.717-31-11: DC\_2-13-48\_n77**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Approved.**

**R4-2105077 TP for TR 37.717-31-11: DC\_2-46-48\_n2**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2105299.**

**R4-2105299 TP for TR 37.717-31-11: DC\_2-46-48\_n2**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Approved.**

**R4-2105078 TP for TR 37.717-31-11: DC\_2-48-66\_n2**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2105300.**

**R4-2105300 TP for TR 37.717-31-11: DC\_2-48-66\_n2**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Approved.**

**R4-2105079 TP for TR 37.717-31-11: DC\_2-48-66\_n66**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2105301.**

**R4-2105301 TP for TR 37.717-31-11: DC\_2-48-66\_n66**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Approved.**

**R4-2105080 TP for TR 37.717-31-11: DC\_13-48-66\_n77**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2105302.**

**R4-2105302 TP for TR 37.717-31-11: DC\_13-48-66\_n77**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Approved.**

**R4-2105081 Draft CR for 38.101-3 to introduce new configurations of DC\_2-13-66\_n66, DC\_2-5-66\_n66 and DC\_2-48-66\_n5**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2105303.**

**R4-2105303 Draft CR for 38.101-3 to introduce new configurations of DC\_2-13-66\_n66, DC\_2-5-66\_n66 and DC\_2-48-66\_n5**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Endorsed.**

**R4-2106379 TP for TR 37.717-31-11: DC\_1A-3A-20A\_n7A**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Revised to R4-2105304.**

**R4-2105304 TP for TR 37.717-31-11: DC\_1A-3A-20A\_n7A**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Approved.**

**R4-2106643 TP for TR 37.717-31-11: DC\_1A-3A-38A\_n28A/ DC\_1A-3C-38A\_n28A**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106644 TP for TR 37.717-31-11: DC\_1A-7A-38A\_n28A**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106645 TP for TR 37.717-31-11: DC\_3A-7A-38A\_n28A/DC\_3C-7A-38A\_n28A**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106741 TP to TR TR 37.717-31-11 to include 2-7-13\_n25**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP to TR TR 37.717-31-11 to include 2-7-13\_n25

**Decision: Noted.**

**R4-2106742 TP to TR TR 37.717-31-11 to include DC\_2-7-66\_n25**

*Type: pCR For: Approval  
 37.717-31-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP to TR TR 37.717-31-11 to include DC\_2-7-66\_n25

**Decision: Noted.**

**R4-2107051 TP for TR 37 717-31-11 to include DC\_2A-5A-30A\_n2A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-5A-30A\_n2A

**Decision: Approved.**

**R4-2107052 TP for TR 37 717-31-11 to include DC\_2A-5A-30A\_n66A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-5A-30A\_n66A

**Decision: Approved.**

**R4-2107053 TP for TR 37 717-31-11 to include DC\_2A-14A-30A\_n2A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-14A-30A\_n2A

**Decision: Approved.**

**R4-2107054 TP for TR 37 717-31-11 to include DC\_2A-29A-30A\_n66A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-29A-30A\_n66A

**Decision: Approved.**

**R4-2107056 TP for TR 37 717-31-11 to include DC\_2A-46D-66A\_n5A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-46D-66A\_n5A

**Decision: Approved.**

**R4-2107058 TP for TR 37 717-31-11 to include DC\_5A-30A-66A\_n2A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_5A-30A-66A\_n2A

**Decision: Approved.**

**R4-2107059 TP for TR 37 717-31-11 to include DC\_5A-30A-66A\_n66A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_5A-30A-66A\_n66A

**Decision: Approved.**

**R4-2107060 TP for TR 37 717-31-11 to include DC\_14A-30A-66A\_n66A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_14A-30A-66A\_n66A

**Decision: Approved.**

**R4-2107061 TP for TR 37 717-31-11 to include DC\_14A-30A-66A-66A\_n2A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_14A-30A-66A-66A\_n2A

**Decision: Approved.**

**R4-2107063 TP for TR 37 717-31-11 to include DC\_2A-14A-30A\_n66A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-14A-30A\_n66A

**Decision: Approved.**

**R4-2107064 TP for TR 37 717-31-11 to include DC\_1A-3A-7A\_n3A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson,Telstra*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_1A-3A-7A\_n3A

**Decision: Approved.**

**R4-2107065 TP for TR 37 717-31-11 to include DC\_1A-3A-28A\_n3A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson,Telstra*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_1A-3A-28A\_n3A

**Decision: Approved.**

**R4-2107066 TP for TR 37 717-31-11 to include DC\_3A-7A-28A\_n3A**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson,Telstra*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_3A-7A-28A\_n3A

**Decision: Approved.**

**R4-2107075 draft CR to 38.101-3 to add new configurations for 2-5-5-66\_n66, 2-29-66\_n66 and 2-30-66\_n66**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR to 38.101-3 to add new configurations for 2-5-5-66\_n66, 2-29-66\_n66 and 2-30-66\_n66

**Decision: Endorsed.**

#### 7.5.3 EN-DC with FR2 band

**R4-2106757 draft CR 38.101-3 to include new configurations for DC\_1-7\_n3-n78 and DC\_1-7-28\_n3**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38.101-3 to include new configurations for DC\_1-7\_n3-n78 and DC\_1-7-28\_n3

**Decision: Endorsed.**

**R4-2107055 TP for TR 37 717-31-11 to include DC\_2A-29A-66A\_n260M**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-29A-66A\_n260M

**Decision: Approved.**

**R4-2107057 TP for TR 37 717-31-11 to include DC\_2A-46D-66A\_n260M**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_2A-46D-66A\_n260M

**Decision: Approved.**

**R4-2107062 TP for TR 37 717-31-11 to include DC\_29A-30A-66A\_n260M**

*Type: pCR For: Approval  
 37.717-31-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-31-11 to include DC\_29A-30A-66A\_n260M

**Decision: Approved.**

**R4-2107074 draft CR to 38.101-3 to add configurations for 2-30-66\_n260 and 2-29-30\_n260**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

draft CR to 38.101-3 to add configurations for 2-30-66\_n260 and 2-29-30\_n260

**Decision: Endorsed.**

### 7.6 DC of 4 LTE band and 1 NR band

#### 7.6.1 Rapporteur Input (WID/TR/CR)

**R4-2107188 draft TR 37.717-41-11 v0.4.0**

*Type: draft TR For: Agreement  
 37.717-41-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of TPs provided at RAN4#98

**Decision:** to be email approved

#### 7.6.2 EN-DC without FR2 band

**R4-2104405 TP to TR 37.717-41-11: DC\_1-3-28-40\_n78**

*Type: pCR For: Approval  
 37.717-41-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Revised to R4-2105284.**

**R4-2105284 TP to TR 37.717-41-11: DC\_1-3-28-40\_n78**

*Type: pCR For: Approval  
 37.717-41-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Approved.**

**R4-2106380 TP for TR 37.717-41-11\_DC\_1A-3A-7A-20A\_n38A**

*Type: pCR For: Approval  
 37.717-41-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2105305 TP for TR 37.717-41-11\_DC\_1A-3A-7A-20A\_n38A**

*Type: pCR For: Approval  
 37.717-41-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Withdrawn.**

**R4-2106646 TP for TR 37.717-41-11: DC\_1A-3A-7A-38A\_n28A/DC\_1A-3C-7A-38A\_n28A**

*Type: pCR For: Approval  
 37.717-41-11 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2107067 TP for TR 37 717-41-11 to include DC\_1A-3A-7A-28A\_n3A**

*Type: pCR For: Approval  
 37.717-41-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson,Telstra*

**Abstract:**

TP for TR 37 717-41-11 to include DC\_1A-3A-7A-28A\_n3A

**Decision: Approved.**

**R4-2107068 TP for TR 37 717-41-11 to include DC\_2A-5A-30A-66A\_n2A**

*Type: pCR For: Approval  
 37.717-41-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-41-11 to include DC\_2A-5A-30A-66A\_n2A

**Decision: Approved.**

**R4-2107069 TP for TR 37 717-41-11 to include DC\_2A-5A-30A-66A\_n66A**

*Type: pCR For: Approval  
 37.717-41-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-41-11 to include DC\_2A-5A-30A-66A\_n66A

**Decision: Approved.**

**R4-2107070 TP for TR 37 717-41-11 to include DC\_2A-14A-30A-66A\_n2A**

*Type: pCR For: Approval  
 37.717-41-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-41-11 to include DC\_2A-14A-30A-66A\_n2A

**Decision: Approved.**

**R4-2107071 TP for TR 37 717-41-11 to include DC\_2A-14A-30A-66A\_n66A**

*Type: pCR For: Approval  
 37.717-41-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-41-11 to include DC\_2A-14A-30A-66A\_n66A

**Decision: Approved.**

**R4-2107072 TP for TR 37 717-41-11 to include DC\_2A-29A-30A-66A\_n66A**

*Type: pCR For: Approval  
 37.717-41-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-41-11 to include DC\_2A-29A-30A-66A\_n66A

**Decision: Approved.**

#### 7.6.3 EN-DC with FR2 band

**R4-2107073 TP for TR 37 717-41-11 to include DC\_2A-29A-30A-66A\_n260M**

*Type: pCR For: Approval  
 37.717-41-11 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for TR 37 717-41-11 to include DC\_2A-29A-30A-66A\_n260M

**Decision: Noted.**

### 7.7 DC of x bands (x=1,2, 3, 4) LTE inter-band CA and 2 bands NR inter-band CA

#### 7.7.1 Rapporteur Input (WID/TR/CR)

**R4-2104965 TR 37.717-11-21 v0.4.0 TR update: LTE(xDL/1UL)+ NR(2DL/1UL) DC in Rel-17**

*Type: draft TR For: Endorsement  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

update TR to add the approved TPs in this meeting.

**Decision:** to be email approved

**R4-2104966 Revised WID on LTE (xDL/UL x=1.2,3,4) with NR 2 bands (2DL/1UL) DC in Rel-17**

*Type: WID revised For: Endorsement  
 Source: LG Electronics France*

**Abstract:**

Provide revised WID to update status of each DC band combos and add to new DC band combos in this meeting.

**Decision: Withdrawn.**

#### 7.7.2 EN-DC including NR inter CA without FR2 band

**R4-2104967 TP on summary of self-interference analysis for new NR DC LTE(xDL/1UL)+ NR(2DL/1UL) DC in Rel-17**

*Type: pCR For: Approval  
 37.717-11-21 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

TP to capture the coexistence analysis results for new DC band combos

**Decision: Approved.**

**R4-2104968 MSD anlaysis results for new DC band combinations**

*Type: pCR For: Approval  
 37.717-11-21 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

propose MSD analysis results for DC new band combos

**Decision: Approved.**

**R4-2106378 TP for TR 37.717-11-21: DC\_1A-3A-20A\_n7A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Approved.**

**R4-2106647 TP for TR 37.717-11-21:DC\_40A\_n1A-n78A/DC\_40C\_n1A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106743 TP for TR 37.717-11-21 to include 2\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 2\_n25-n66

**Decision: Noted.**

**R4-2105272 TP for TR 37.717-11-21 to include 2\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 2\_n25-n66

**Decision: Withdrawn.**

**R4-2106744 TP for TR 37.717-11-21 to include 7\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 7\_n25-n66

**Decision: Approved.**

**R4-2106745 TP for TR 37.717-11-21 to include 13\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 13\_n25-n66

**Decision: Approved.**

**R4-2106746 TP for TR 37.717-11-21 to include 66\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 66\_n25-n66

**Decision: Approved.**

**R4-2106747 TP for TR 37.717-11-21 to include DC\_2-7\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include DC\_2-7\_n25-n66

**Decision: Approved.**

**R4-2106748 TP for TR 37.717-11-21 to include DC\_2-13\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include DC\_2-13\_n25-n66

**Decision: Approved.**

**R4-2106749 TP for TR 37.717-11-21 to include 2-66\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 2-66\_n25-n66

**Decision: Approved.**

**R4-2106750 TP for TR 37.717-11-21 to include 7-13\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 7-13\_n25-n66

**Decision: Approved.**

**R4-2106751 TP for TR 37.717-11-21 to include 7-66\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 7-66\_n25-n66

**Decision: Approved.**

**R4-2106752 TP for TR 37.717-11-21 to include 2-7-13\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 2-7-13\_n25-n66

**Decision: Approved.**

**R4-2106753 TP for TR 37.717-11-21 to include 2-7-66\_n25-n66**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 37.717-11-21 to include 2-7-66\_n25-n66

**Decision: Approved.**

**R4-2106758 TP for TR 37.717-11-21 to include 1-7-28\_n3-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 1-7-28\_n3-n78

**Decision: Approved.**

**R4-2106763 TP for TR 37.717-11-21 to include 3-7\_n3-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 3-7\_n3-n78

**Decision: Approved.**

**R4-2106764 TP for TR 37.717-11-21 to include 3-28\_n3-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 3-28\_n3-n78

**Decision: Approved.**

**R4-2106765 TP for TR 37.717-11-21 to include 1-3-7\_n3-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 1-3-7\_n3-n78

**Decision: Approved.**

**R4-2106766 TP for TR 37.717-11-21 to include 1-3-28\_n3-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 1-3-28\_n3-n78

**Decision: Approved.**

**R4-2106767 TP for TR 37.717-11-21 to include 3-7-28\_n3-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 3-7-28\_n3-n78

**Decision: Approved.**

**R4-2106768 TP for TR 37.717-11-21 to include 1-3-7-28\_n3-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 1-3-7-28\_n3-n78

**Decision: Approved.**

#### 7.7.3 EN-DC including NR inter CA with FR2 band

**R4-2106755 TP for TR 37.717-11-21 to include 28\_n7-n258**

*Type: pCR For: Approval  
 37.717-11-21 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 37.717-11-21 to include 28\_n7-n258

**Decision: Approved.**

### 7.8 Band combinations for SA NR supplementary uplink (SUL)

#### 7.8.1 Rapporteur Input (WID/TR/CR)

**R4-2106660 TR 37.717-00-00 v0.4.0**

*Type: draft TR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** to be email approved

#### 7.8.2 UE RF

**R4-2105008 Draft CR on n97 for coexistence with protected bands**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: CMCC, Huawei, HiSilicon*

**Decision: Not pursued.**

**R4-2105273 Draft CR on n97 for coexistence with protected bands**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: CMCC, Huawei, HiSilicon*

**Decision: Withdrawn.**

**R4-2105009 TP to TR 37.717-00-00 for SUL\_n41A-n97A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Noted.**

**R4-2105274 TP to TR 37.717-00-00 for SUL\_n41A-n97A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Withdrawn.**

**R4-2105164 TP for TR 37.717-00-00:SUL\_n24A-n99A**

*Type: pCR For: Approval  
 37.717-00-00 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

Ligado's new band combination

**Decision: Noted.**

**R4-2105275 TP for TR 37.717-00-00:SUL\_n24A-n99A**

*Type: pCR For: Approval  
 37.717-00-00 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

Ligado's new band combination

**Decision: Withdrawn.**

**R4-2105165 TP for TR 37.717-00-00:SUL\_n41A-n99A and SUL\_n41A(2A)-n99A**

*Type: pCR For: Approval  
 37.717-00-00 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

Ligado's new band combination

**Decision: Approved.**

**R4-2105166 TP for TR 37.717-00-00:SUL\_n48A-n99A and SUL\_n48A(2A)-n99A**

*Type: pCR For: Approval  
 37.717-00-00 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

Ligado's new band combination

**Decision: Approved.**

**R4-2105167 TP for TR 37.717-00-00:SUL\_n77A-n99A and SUL\_n77A(2A)-n99A**

*Type: pCR For: Approval  
 37.717-00-00 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

Ligado's new band combination

**Decision: Approved.**

**R4-2105168 Draft CR to 38.101-1 to modify supplementary uplink configuration for reference sensitivity**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision: Approved.**

**R4-2106654 Updated TP for TR 37.717-00-00 for CA\_n3A\_SUL\_n78C-n80A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106655 Updated TP for TR 37.717-00-00 for CA\_n1A\_SUL\_n78C-n84A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106656 Updated TP for TR 37.717-00-00 for CA\_n28A\_SUL\_n41C-n83A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106657 Updated TP for TR 37.717-00-00 for CA\_n28A\_SUL\_n79C-n83A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106658 TP for TR 37.717-00-00 for SUL\_n41A-n97A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2105276.**

**R4-210 5276 TP for TR 37.717-00-00 for SUL\_n41A-n97A**

*Type: pCR For: Approval  
 37.717-00-00 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

### 7.9 NR Inter-band Carrier Aggregation for 3 bands DL with 1 band UL

#### 7.9.1 Rapporteur Input (WID/TR/CR)

**R4-2104807 TR 38.717-03-01 on Rel-17 NR inter-band Carrier Aggregation (CA) for 3 Down Link (DL) / 1 Up Link (UL)**

*Type: draft TR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** To be email approved

#### 7.9.2 UE RF

**R4-2104424 TP to TR 38.717-03-01: CA\_n25-n48-n66 combinations**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Agreed.**

**R4-2104643 TP for TR 38.717-03-01: CA\_n1-n3-n20**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

**R4-2104644 TP for TR 38.717-03-01: CA\_n1-n20-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

**R4-2104645 TP for TR 38.717-03-01: CA\_n3-n20-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

**R4-2104646 TP for TR 38.717-03-01: CA\_n8-n28-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

**R4-2104809 Supported channel bandwidth for CA\_n39-n41-n79**

*Type: draftCR For: Endorsement  
 38.101-1 v16.7.0 CR- rev Cat: (Rel-16)  
  
 Source: CATT, CMCC*

**Decision: Not pursued.**

**R4-2104810 Supported channel bandwidth for CA\_n39-n41-n79**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT, CMCC*

**Decision: Withdrawn.**

**R4-2104912 TP for TR 38.717-03-01: NR CA\_n3-n28-n79**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Approved.**

**R4-2104915 TP for TR 38.717-03-01: NR CA\_n3-n79-n257**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Approved.**

**R4-2104916 TP for TR 38.717-03-01: NR CA\_n28-n79-n257**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Approved.**

**R4-2104917 TP update for TR 38.717-03-01: NR CA\_n28-n77-n79**

*Type: pCR For: Approval  
 38.717-03-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Approved.**

**R4-2105070 TP for TR 38.717-03-01: CA\_n7-n25-n77**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, TELUS, Bell mobility*

**Decision: Approved.**

**R4-2105071 TP for TR 38.717-03-01: CA\_n7-n66-n77**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, TELUS, Bell mobility*

**Decision: Approved.**

**R4-2105072 TP for TR 38.717-03-01: CA\_n25-n66-n77**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, TELUS, Bell mobility*

**Decision: Approved.**

**R4-2106652 TP for TR 38.717-03-01: CA\_n1A-n3A-n7A**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

**R4-2106718 TP for 37.717-03-01 to include n2-n5-n66**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for 37.717-03-01 to include n2-n5-n66

**Decision: Approved.**

**R4-2106720 TP for 37.717-03-01 to include n2-n5-n30**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for 37.717-03-01 to include n2-n5-n30

**Decision: Approved.**

**R4-2106729 TP for 37.717-03-01 to include n13-n25-n77**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for 37.717-03-01 to include n13-n25-n77

**Decision: Approved.**

**R4-2106731 TP for 37.717-03-01 to include n13-n66-n77**

*Type: pCR For: Approval  
 38.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for 37.717-03-01 to include n13-n66-n77

**Decision: Approved.**

### 7.10 NR Inter-band Carrier Aggregation for 4 bands DL with 1 band UL

#### 7.10.1 Rapporteur Input (WID/TR/CR)

**R4-2106698 Revised WID 4 bands NR CA Rel-17**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

Revised WID 4 bands NR CA Rel-17

**Decision: Withdrawn.**

**R4-2106702 CR 38.101-1 introduction completed band combinations NR Inter-band 4 bands CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-1 introduction completed band combinations NR Inter-band 4 bands CA

**Decision: Withdrawn.**

**R4-2106703 CR 38.101-3 introduction completed band combinations NR Inter-band 4 bands CA**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-3 introduction completed band combinations NR Inter-band 4 bands CA

**Decision: Withdrawn.**

**R4-2106706 TR 38.717-04-01 v0.4.0 Rel-17 NR Inter-band 4 bands CA**

*Type: draft TR For: Endorsement  
 38.717-04-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 38.717-04-01 v0.4.0 Rel-17 NR Inter-band 4 bands CA

**Decision:** to be email approved

#### 7.10.2 UE RF

**R4-2104420 TP to TR 38.717-04-01: CA\_n25-n41-n71-n77**

*Type: pCR For: Approval  
 38.717-04-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Approved.**

**R4-2104421 TP to TR 38.717-04-01: CA\_n25-n66-n71-n77**

*Type: pCR For: Approval  
 38.717-04-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Approved.**

**R4-2104422 TP to TR 38.717-04-01: CA\_n25-n41-n66-n77**

*Type: pCR For: Approval  
 38.717-04-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Revised to R4-2105277.**

**R4-2105277 TP to TR 38.717-04-01: CA\_n25-n41-n66-n77**

*Type: pCR For: Approval  
 38.717-04-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

**Decision: Approved.**

**R4-2105073 TP for TR 38.717-04-01: CA\_n7-n25-n66-n77**

*Type: pCR For: Approval  
 38.717-04-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, TELUS, Bell mobility*

**Decision: Approved.**

**R4-2106653 TP for TR 38.717-04-01: CA\_n1A-n8A-n78A-n79A/ CA\_n1A-n8A-n78(2A)-n79A**

*Type: pCR For: Approval  
 38.717-04-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2105278.**

**R4-2105278 TP for TR 38.717-04-01: CA\_n1A-n8A-n78A-n79A/ CA\_n1A-n8A-n78(2A)-n79A**

*Type: pCR For: Approval  
 38.717-04-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Approved.**

### 7.11 NR Inter-band Carrier Aggregation/Dual connectivity for 3 bands DL with 2 bands UL

#### 7.11.1 Rapporteur Input (WID/TR/CR)

**R4-2104914 TR 38.717-03-02 v0.4.0**

*Type: draft TR For: Discussion  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** to be email approved

**R4-2106837 TP for TR38.717-03-02\_Removal of the sub-clauses under clause 5.2**

*Type: pCR For: (not specified)  
 38.717-03-02 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: ShenZhen Zhongxing Shitong*

**Decision: Approved.**

#### 7.11.2 UE RF

**R4-2104709 TP to TR 38.717-03-02 CA\_n7-n66-n77**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution, a text proposal to complete 3DL/2UL NR CA configuration CA\_n7A-n66A-n78A, CA\_n7(2A)-n66A-n77A, CA\_n7A-n66(2A)-n77A, CA\_n7A-n66A-n77(2A), CA\_n7(2A)-n66(2A)-n77(2A), CA\_n7(2A)-n66A-n77(2A), CA\_n7A-n66(2A)-n77(2A), and CA\_n7(2A)-n66(2A

**Decision: Approved.**

**R4-2105279 TP to TR 38.717-03-02 CA\_n7-n66-n77**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution, a text proposal to complete 3DL/2UL NR CA configuration CA\_n7A-n66A-n78A, CA\_n7(2A)-n66A-n77A, CA\_n7A-n66(2A)-n77A, CA\_n7A-n66A-n77(2A), CA\_n7(2A)-n66(2A)-n77(2A), CA\_n7(2A)-n66A-n77(2A), CA\_n7A-n66(2A)-n77(2A), and CA\_n7(2A)-n66(2A

**Decision: Withdrawn.**

**R4-2104710 draft CR CA\_n25\_n66\_n77 to TS 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CA\_n25(2A)-n66(2A)-n77A,

CA\_n25(2A)-n66A-n77(2A), and CA\_n25(2A)-n66(2A)-n77(2A) are introduced.

**Decision:** The document was **withdrawn**.

**R4-2106383 TP for TR38.717-03-02\_ CA\_n8A-n39A-n41A**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Approved.**

**R4-2106496 TP for TR 38.717-03-02: CA\_n25-n71-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Approved.**

**R4-2106497 DraftCR for 38.101-1 to add additional combinations for CA\_n25-n66-n78**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Endorsed.**

**R4-2105280 DraftCR for 38.101-1 to add additional combinations for CA\_n25-n66-n78**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Withdrawn.**

**R4-2106719 TP for 38.717-03-02 to include n2-n5-n66**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for 38.717-03-02 to include n2-n5-n66

**Decision: Approved.**

**R4-2106721 TP for 38.717-03-02 to include CA\_n2-n5-n30**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, AT&T*

**Abstract:**

TP for 38.717-03-02 to include CA\_n2-n5-n30

**Decision: Approved.**

**R4-2106730 TP for 38.717-03-02 to include n13-n25-n77**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for 38.717-03-02 to include n13-n25-n77

**Decision: Approved.**

**R4-2106732 TP for 38.717-03-02 to include n13-n66-n77**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for 38.717-03-02 to include n13-n66-n77

**Decision: Approved.**

**R4-2106770 TP for 38.717-03-02 to include n41-n66-n71**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for 38.717-03-02 to include n41-n66-n71

**Decision: Noted.**

**R4-2106771 TP for 38.717-03-02 to include n25-n41-n66**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile US*

**Abstract:**

TP for 38.717-03-02 to include n25-n41-n66

**Decision: Noted.**

**R4-2107209 TP to TR 38.717-03-02 Addition of CA\_n2A-n5A-n66A**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Revised to R4-2105281.**

**R4-2105281 TP to TR 38.717-03-02 Addition of CA\_n2A-n5A-n66A**

*Type: pCR For: Approval  
 38.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Verizon*

**Decision: Approved.**

### 7.12 DC of x bands (x=1,2) LTE inter-band CA (xDL/xUL) and y bands (y=3-x) NR inter-band CA

#### 7.12.1 Rapporteur Input (WID/TR/CR)

**R4-2106384 TR 37.717-33 v0.2.0**

*Type: draft TR For: Agreement  
 37.717-33 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** to be email approved

#### 7.12.2 UE RF

**R4-2106381 TP for TR 37.717-33\_DC\_39A\_n41A-n258A**

*Type: pCR For: Approval  
 37.717-33 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Approved.**

### 7.13 DC of x bands (x=1,2,3) LTE inter-band CA (xDL/1UL) and 3 bands NR inter-band CA (3DL/1UL)

#### 7.13.1 Rapporteur Input (WID/TR/CR)

**R4-2106385 TR 37.717-11-31\_v0.3.0**

*Type: draft TR For: Agreement  
 37.717-11-31 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** to be email approved

#### 7.13.2 UE RF

### 7.14 NR inter-band Carrier Aggregation and Dual connectivity for DL 4 bands and 2UL bands

#### 7.14.1 Rapporteur Input (WID/TR/CR)

**R4-2105103 TR 38.717-04-02 update version 0.4.0**

*Type: draft TR For: Agreement  
 38.717-04-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung*

**Decision:** to be email approved

#### 7.14.2 UE RF

**R4-2105074 TP for TR 38.717-04-02: CA\_n7-n25-n66-n77**

*Type: pCR For: Approval  
 38.717-04-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, TELUS, Bell mobility*

**Decision: Approved.**

**R4-2106374 Draft CR to TS38.101-3 Introduction of DC\_1A-3A-7A-20A\_n78(2A)**

*Type: draftCR For: Approval  
 38.101-3 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Endorsed.**

### 7.15 NR inter-band CA for 5 bands DL with x bands UL (x=1, 2)

#### 7.15.1 Rapporteur Input (WID/TR/CR)

**R4-2106661 TR 38.717-05-01 v0.2.0**

*Type: draft TR For: Approval  
 38.717-05-01 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** to be email approved

#### 7.15.2 UE RF

**R4-2106769 TP for 37.717-05-01 to include n1-n3-n7-n28-n78**

*Type: pCR For: Approval  
 38.717-05-01 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for 37.717-05-01 to include n1-n3-n7-n28-n78

**Decision: Approved.**

### 7.16 DC of 5 bands LTE inter-band CA (5DL/1L) and 1 NR band (1DL/1UL)

#### 7.16.1 Rapporteur Input (WID/TR/CR)

**R4-2105091 TR 37.717-51-11 update version 0.2.0**

*Type: draft TR For: Agreement  
 37.717-51-11 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung*

**Decision:** to be email approved

#### 7.16.2 UE RF

### 7.17 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)

#### 7.17.1 Rapporteur Input (WID/TR/CR)

**R4-2105092 TR 37.717-21-22 update version 0.2.0**

*Type: draft TR For: Agreement  
 37.717-21-22 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung*

**Decision:** to be email approved

#### 7.17.2 UE RF

### 7.18 Issues arising from basket WIs but not subject to block approval

**R4-2105179 Email discussion summary for [98-bis-e][106] NR\_Baskets\_Part\_3**

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

**Discussion:**

**Decision: Revised to R4-2105443.**

**R4-2105443 Email discussion summary for [98-bis-e][106] NR\_Baskets\_Part\_3**

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

**Discussion:**

**Decision: Return to.**

**R4-2105334 Way forward on combinations not for block approval and their handling**

*Type: other For: Approval*

*Source: Apple*

**Discussion:**

**Decision: Return to.**

**R4-2105335 Way forward on analysis and framework of triple beat issue of 3CC UL with contiguous intra band UL CA**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

**R4-2105336 Way forward on analysis and framework of IMD issue of 2CC contiguous and non-contiguous intra band UL CA**

*Type: other For: Approval*

*Source: Skyworks*

**Discussion:**

**Decision: Return to.**

**R4-2105337 Way forward on analysis and framework of LB-LB-LB combinations**

*Type: other For: Approval*

*Source: MediaTek, Vodafone*

**Discussion:**

**Decision: Return to.**

**R4-2105338 Way forward on single UL intra-band ENDC REFSENS Exceptions**

*Type: other For: Approval*

*Source: Skyworks*

**Discussion:**

**Decision: Return to.**

**R4-2105339 Way forward on 2CC contiguous intra-band NRU UL CA**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

#### 7.18.1 UE RF

**R4-2104650 On support of DC\_8-20\_n1, DC\_8-20\_n3 and DC\_8-20\_n28**

*Type: discussion For: Discussion  
 Source: VODAFONE Group Plc*

**Decision: Noted.**

**R4-2104818 Handling of Inter-band UL Configuration Including NR Intra-band ULCA**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

both EN-DC and NR-CA had UL configurations that included NR intra-band UL CA but did not consider the related potential IMD and/or triple beat issue that may result in MSD, In this contribution, we further discuss these cases, provide technical background

**Decision: Noted.**

**R4-2104820 Draft CR for Pcmax - NR-DC for DC cat. A-B combinations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: InterDigital Communications, Charter Communication Inc.*

**Abstract:**

This draft CR shows the NR-DC Pcmax required changes to support category A-B DC combos. These changes would allow for UL CA in one or both CGs.

**Decision: Revised to R4-2105340.**

**R4-2105340 Draft CR for Pcmax - NR-DC for DC cat. A-B combinations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: InterDigital Communications, Charter Communication Inc.*

**Abstract:**

This draft CR shows the NR-DC Pcmax required changes to support category A-B DC combos. These changes would allow for UL CA in one or both CGs.

**Decision: Return to.**

**R4-2106908 FR1 CA/DC band combinations not for block approval**

*Type: other For: Approval  
 Source: Apple*

**Decision: Noted.**

**R4-2107338 Intra-band REFSENS Exceptions for n71**

*Type: discussion For: Approval  
 38.101-3 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision: Noted.**

**R4-2107345 Inter-band ULCA with more than 2CCs**

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

**Decision: Noted.**

**R4-2107357 Intraband UL CA for NR-U**

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

**Decision: Noted.**

#### 7.18.2 Others

### 7.19 SAR schemes for UE power class 2 (PC2) for NR inter-band Carrier Aggregation and supplemental uplink (SUL) configurations with 2 bands UL

**R4-2105180 Email discussion summary for [98-bis-e][107] NR\_SAR\_PC2\_interB\_SUL\_2BUL\_NWM**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Revised to R4-2105444.**

**R4-2105444 Email discussion summary for [98-bis-e][107] NR\_SAR\_PC2\_interB\_SUL\_2BUL\_NWM**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Return to.**

**R4-2105341 Way forward on SAR solutions for PC2 NR inter-band CA and SUL configurations**

*Type: other For: Approval*

*Source: China Telecom*

**Discussion:**

**Decision: Return to.**

**R4-2105342 Way forward on increasing UE maximum power high limit**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

#### 7.19.1 General and Rapporteur Input (WID/TR/CR)

#### 7.19.2 PC2 for inter-band CA

**R4-2104527 Discussion on PC2 inter-band NR CA**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2105085 More on methods for faciliating SAR compliance for inter-band UL CA**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we reiterate the proposal that duty-cycle reporting should not be specified, it is not viable. Power limits combined with the P-MPR method should be used instead.

**Decision: Noted.**

**R4-2106275 Further discussion on SAR schemes for UE power class 2 NR inter-band CA with 2UL**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Abstract:**

.

**Decision: Noted.**

**R4-2106363 Further discussion on SAR solution for NR PC2 inter-band CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106541 Discussion on SAR issue for HP UE inter-band UL CA**

*Type: other For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106559 R17 Inter band CA HPUE**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2106905 Power class consideration for NR inter-band UL CA**

*Type: other For: Discussion  
 Source: Apple*

**Decision: Noted.**

#### 7.19.3 PC2 for SUL

**R4-2106276 Further discussion on SAR schemes for UE power class 2 NR SUL configurations**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision: Noted.**

#### 7.19.4 Others

**R4-2104572 Exploiting full potential of UE Tx power**

*Type: other For: Approval  
 Source: Nokia Japan*

**Abstract:**

This contribution addresses some concerns have been raised so far on exploiting full potential UE Tx power.

**Decision: Noted.**

**R4-2105086 Higher BC power class for UL CA**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we propose that a power capability of a band combination higher than 26 dBm is specified as a new power class.

**Decision: Noted.**

**R4-2106557 R17 Discussion on UE power class high limit**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

### 7.20 High power UE (power class 2) for NR inter-band Carrier Aggregation with 2 bands downlink and 2 bands uplink

**R4-2105181 Email discussion summary for [98-bis-e][108] NR\_PC2\_CA\_R17\_2BDL\_2BUL**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Revised to R4-2105445.**

**R4-2105445 Email discussion summary for [98-bis-e][108] NR\_PC2\_CA\_R17\_2BDL\_2BUL**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Return to.**

#### 7.20.1 Rapporteur Input (WID/TR/CR)

**R4-2106277 Draft TR 38.841 v0.3.0: 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 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision:** to be email approved

**R4-2106278 Draft CR to 38.101-1 Introduce RF requirements for HPUE CA with 2 bands downlink and x bands uplink (x =1,2)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

Introduce the completed combos to 38101-1

**Decision: Endorsed.**

#### 7.20.2 UE RF

**R4-2104973 MSD results by self interference for PC2 high power NR inter-band CA UE**

*Type: discussion For: Approval  
 Source: LG Electronics France*

**Abstract:**

propose MSD requirements for NR PC2 inter-band CA band combinations

**Decision: Noted.**

**R4-2106279 TP to 38.841: RF requirements for PC2 CA\_n3A-n78A with up to 2 uplink**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision: Revised to R4-2105343.**

**R4-2105343 TP to 38.841: RF requirements for PC2 CA\_n3A-n78A with up to 2 uplink**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision: Return to.**

**R4-2106561 R17 MSD improvement**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2106904 Draft CR for TS 38.101-1: Inter-band UL CA power class correction**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision: Not pursued.**

**R4-2107315 On power class for NR band in PC2 inter-band CA**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107333 TP for TR\_38.841 PC2 CA\_n25A-n41A**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Revised to R4-2105344.**

**R4-2105344 TP for TR\_38.841 PC2 CA\_n25A-n41A**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Return to.**

**R4-2107334 TP for TR\_38.841 PC2 CA\_n41A-n66A**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Revised to R4-2105345.**

**R4-2105345 TP for TR\_38.841 PC2 CA\_n41A-n66A**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Return to.**

**R4-2107335 TP for TR\_38.841 PC2 CA\_n41A-n71A**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Revised to R4-2105346.**

**R4-2105346 TP for TR\_38.841 PC2 CA\_n41A-n71A**

*Type: pCR For: Approval  
 38.841 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Return to.**

### 7.21 High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band

**R4-2105182 Email discussion summary for [98-bis-e][109] ENDC\_UE\_PC2\_R17\_NR\_TDD**

*Type: other For: Information  
 Source: Moderator (China Unicom)*

**Discussion:**

**Decision: Revised to R4-2105446.**

**R4-2105446 Email discussion summary for [98-bis-e][109] ENDC\_UE\_PC2\_R17\_NR\_TDD**

*Type: other For: Information  
 Source: Moderator (China Unicom)*

**Discussion:**

**Decision: Return to.**

#### 7.21.1 Rapporteur Input (WID/TR/CR)

**R4-2104950 Proposal on revision of WID table**

*Type: discussion For: Approval  
 Source: China Unicom*

**Decision: Approved.**

**R4-2106288 TR 37.826 v0.3.0 ENDC\_UE\_PC2\_R17\_NR\_TDD**

*Type: draft TR For: Approval  
 37.826 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: China Unicom*

**Decision:** to be email approved

#### 7.21.2 UE RF

**R4-2104974 MSD results by cross-band isolation for PC2 high power NR DC UE**

*Type: other For: Approval  
 Source: LG Electronics France*

**Abstract:**

Propose MSD results by cross-band isolation for PC2 high power NR UE

**Decision: Noted.**

**R4-2104990 TP for TR 37.826 on PC2 DC\_5A\_n78A**

*Type: pCR For: Approval  
 37.826 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: SK Telecom*

**Decision: Revised to R4-2105347.**

**R4-2105347 TP for TR 37.826 on PC2 DC\_5A\_n78A**

*Type: pCR For: Approval  
 37.826 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: SK Telecom*

**Decision: Return to.**

**R4-2104993 TP for TR 37.826 on PC2 DC\_7A\_n78A**

*Type: pCR For: Approval  
 37.826 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: SK Telecom*

**Decision: Revised to R4-2105348.**

**R4-2105348 TP for TR 37.826 on PC2 DC\_7A\_n78A**

*Type: pCR For: Approval  
 37.826 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: SK Telecom*

**Decision: Return to.**

**R4-2107331 TP for TR 37.826 PC2 DC\_2A\_n41A**

*Type: pCR For: Approval  
 37.826 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Revised to R4-2105349.**

**R4-2105349 TP for TR 37.826 PC2 DC\_2A\_n41A**

*Type: pCR For: Approval  
 37.826 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Return to.**

**R4-2107332 TP for TR 37.826 PC2 DC\_66A\_n41A**

*Type: pCR For: Approval  
 37.826 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Approved.**

### 7.22 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

**R4-2105183 Email discussion summary for [98-bis-e][110] NR\_UE\_PC2\_CA\_SUL\_xBDL\_yBUL**

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

**Discussion:**

**Decision: Revised to R4-2105447.**

**R4-2105447 Email discussion summary for [98-bis-e][110] NR\_UE\_PC2\_CA\_SUL\_xBDL\_yBUL**

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

**Discussion:**

**Decision: Return to.**

#### 7.22.1 Rapporteur Input (WID/TR/CR)

**R4-2107276 Draft TR 38.xxx High power UE (power class 2) for NR inter-band CA and SUL with x (x>2) bands DL and y (y=1, 2) bands UL**

*Type: other For: (not specified)  
 Source: Huawei, HiSilicon*

**Decision: Agreed.**

#### 7.22.2 UE RF

**R4-2107268 Considerations on high order band combinations for PC2 inter-band CA and SUL**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2105350.**

**R4-2105350 Considerations on high order band combinations for PC2 inter-band CA and SUL**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

### 7.23 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)

**R4-2105184 Email discussion summary for [98-bis-e][111] ENDC\_PC2\_R17\_xLTE\_yNR**

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

**Discussion:**

**Decision: Revised to R4-2105359.**

**R4-2105359 Email discussion summary for [98-bis-e][111] ENDC\_PC2\_R17\_xLTE\_yNR**

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

**Discussion:**

**Decision: Revised to R4-2105448.**

**R4-2105448 Email discussion summary for [98-bis-e][111] ENDC\_PC2\_R17\_xLTE\_yNR**

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

**Discussion:**

**Decision: Return to.**

#### 7.23.1 Rapporteur Input (WID/TR/CR)

**R4-2105489 TR 37.827 v0.0.1 ENDC\_PC2\_R17\_xLTE\_yNR**

*Type: draft TR For: Agreement*

*Source: Ericsson*

**Discussion:**

**Decision: Return to.**

#### 7.23.2 UE RF

**R4-2104498 TP for TR 37.xxx for DC\_2-5\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105351.**

**R4-2105351 TP for TR 37.xxx for DC\_2-5\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2104499 TP for TR 37.xxx for DC\_2-13\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105352.**

**R4-2105352 TP for TR 37.xxx for DC\_2-13\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2104500 TP for TR 37.xxx for DC\_2-66\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105353.**

**R4-2105353 TP for TR 37.xxx for DC\_2-66\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2104501 TP for TR 37.xxx for DC\_5-66\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105354.**

**R4-2105354 TP for TR 37.xxx for DC\_5-66\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2104502 TP for TR 37.xxx for DC\_13-66\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105355.**

**R4-2105355 TP for TR 37.xxx for DC\_13-66\_n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2104503 TP for TR 37.xxx for DC\_2\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105356.**

**R4-2105356 TP for TR 37.xxx for DC\_2\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2104504 TP for TR 37.xxx for DC\_66\_n2-n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105357.**

**R4-2105357 TP for TR 37.xxx for DC\_66\_n2-n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2104505 TP for TR 37.xxx for DC\_66\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Revised to R4-2105358.**

**R4-2105358 TP for TR 37.xxx for DC\_66\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

**Decision: Return to.**

**R4-2107049 Discussion on the support of PC2 FDD-TDD EN-DC with more aggregated bands on the downlink**

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

**Decision: Return to.**

### 7.24 Adding channel bandwidth support to existing NR bands

**R4-2105185 Email discussion summary for [98-bis-e][112] NR\_bands\_R17\_BWs**

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

**Discussion:**

**Decision: Revised to R4-2105449.**

**R4-2105449 Email discussion summary for [98-bis-e][112] NR\_bands\_R17\_BWs**

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

**Discussion:**

**Decision: Return to.**

**R4-2105360 Way forward on adding 90 and 100MHz channel BW for UE in band n40**

*Type: other For: Approval*

*Source: Huawei*

**Discussion:**

**Decision: Return to.**

**R4-2105361 Way forward on the introduction of 25, 30 and 40MHz in band n2**

*Type: other For: Approval*

*Source: AT&T*

**Discussion:**

**Decision: Return to.**

**R4-2105362 Way forward on the introduction of 25MHz in band n5**

*Type: other For: Approval*

*Source: AT&T*

**Discussion:**

**Decision: Return to.**

**R4-2105363 Way forward on the introduction 50MHz in band n3**

*Type: other For: Approval*

*Source: Ericsson, China Telecom, China Unicom*

**Discussion:**

**Decision: Return to.**

#### 7.24.1 General and Rapporteur Input (WID/TR/CR)

**R4-2106285 Draft CR to 38.101-1 Introduce 50MHz CBW for Band n3**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision: Not pursued.**

**R4-2106286 Draft CR to 38.104 Introduce 50MHz CBW for Band n3**

*Type: draftCR For: Endorsement  
 38.104 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision: Not pursued.**

**R4-2106892 Revised Basket WID on adding channel bandwidth support to existing NR bands**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

This contribution is the revision of the basket WI to include the new requests received before RAN4#98bis-e meeting and update status of previous requests

**Decision: Noted.**

**R4-2106893 Basket WID on new CBW - update**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution is giving an update on this basket WI

**Decision: Noted.**

#### 7.24.2 UE RF requirement

**R4-2106480 Adding 90 and 100MHz bandwidth for band n40**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, CMCC*

**Decision: Noted.**

**R4-2106482 Adding 50 MHz CBW for NR band n3**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107320 n5 25MHz**

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

**Decision: Revised to R4-2105323.**

**R4-2105323 n5 25MHz**

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

**Decision: Noted.**

**R4-2107321 n3 50MHz**

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

**Decision: Noted.**

**R4-2107323 n5 25MHz REFSENS A-MPR**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision: Noted.**

##### 7.24.2.1 Reference sensitivity

**R4-2104657 REFSENS of n5 for 25MHz channel bandwidth**

*Type: discussion For: Approval  
 Source: Murata Manufacturing Co Ltd.*

**Decision: Noted.**

**R4-2104658 REFSENS of n2 for 30MHz and 40MHz channel bandwidth**

*Type: discussion For: Approval  
 Source: Murata Manufacturing Co Ltd.*

**Decision: Noted.**

**R4-2104890 MSD calculation for band n5 with 20 MHz UL BW**

*Type: discussion For: Approval  
 Source: Apple*

**Decision: Noted.**

**R4-2104959 n5 REFSENS supporting 25MHz CBW**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision: Noted.**

**R4-2105006 MSD due to cross band isolation evaluation for n40 supporting 90/100MHz CBW**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision: Noted.**

**R4-2106284 Discussion on RefSens for Band n3 50MHz CBW**

*Type: other For: Approval  
 Source: China Telecom*

**Decision: Noted.**

**R4-2107325 n2 25,30,40MHz REFSENS**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision: Noted.**

##### 7.24.2.2 MPR/A-MPR/NS signaling

**R4-2104880 Discussion on new CBW 90MHz and 100MHz for n40**

*Type: discussion For: Decision  
 Source: Apple*

**Decision: Noted.**

**R4-2104881 Discussion and proposal for n5 with 25MHz CBW**

*Type: discussion For: Decision  
 Source: Apple*

**Decision: Noted.**

**R4-2107324 n40 90M 100M BWs**

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

**Decision: Noted.**

##### 7.24.2.3 others

#### 7.24.3 BS RF requirement

**R4-2106481 draftCR to 38104: adding 90MHz BW for band n40**

*Type: draftCR For: Endorsement  
 38.104 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, CMCC*

**Decision: Not pursued.**

**R4-2106906 FR1 REFSENS table split and simplification**

*Type: other For: Approval  
 Source: Apple*

**Decision: Noted.**

### 7.25 Introduction of channel bandwidths 35MHz and 45MHz for NR

**R4-2105186 Email discussion summary for [98-bis-e][113] NR\_FR1\_35MHz\_45MHz\_BW**

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

**Discussion:**

**Decision: Revised to R4-2105450.**

**R4-2105450 Email discussion summary for [98-bis-e][113] NR\_FR1\_35MHz\_45MHz\_BW**

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

**Discussion:**

**Decision: Return to.**

**R4-2105364 Way forward on UE REFSENS for 35 MHz and 45 MHz**

*Type: other For: Approval*

*Source: Huawei*

**Discussion:**

**Decision: Return to.**

**R4-2105365 Way forward on REFSENS table split and simplification**

*Type: other For: Approval*

*Source: Apple*

**Discussion:**

**Decision: Return to.**

**R4-2105366 Way forward on A-MPR for n1 45 MHz**

*Type: other For: Approval*

*Source: China Telecom*

**Discussion:**

**Decision: Return to.**

#### 7.25.1 General and Rapporteur Input (WID/TR/CR)

**R4-2106283 Draft CR to 38.101-1 Introduce band specific requirements for 45MHz CBW for Band n1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision: Not pursued.**

#### 7.25.2 Spectrum utilization

#### 7.25.3 UE RF requirements

**R4-2104656 REFSENS of n8, n71, n25 for 35\_45MHz channel bandwidth**

*Type: discussion For: Approval  
 Source: Murata Manufacturing Co Ltd.*

**Decision: Noted.**

**R4-2104811 REFSENS evaluation of n8 and n71 for 35MHz channel bandwidth**

*Type: discussion For: Approval  
 Source: Mediatek India Technology Pvt.*

**Decision: Noted.**

**R4-2104878 n1 35 and 45MHz BW AMPR**

*Type: other For: Approval  
 38.101-1 v CR- rev Cat: ()  
  
 Source: Qualcomm Technologies Int*

**Abstract:**

NS\_48 and NS\_49 AMPR

**Decision: Noted.**

**R4-2105171 n1 35 and 45MHz BW AMPR**

*Type: other For: Approval  
 38.101-1 v CR- rev Cat: ()  
  
 Source: Qualcomm Technologies Int*

**Abstract:**

NS\_48 and NS\_49 AMPR

**Decision: Noted.**

**R4-2104888 UL channel location for MSD calculation for bands n8 and n71**

*Type: discussion For: Approval  
 Source: Apple*

**Decision: Noted.**

**R4-2106282 Discussion on A-MPR for 45MHz CBW for Band n1**

*Type: other For: Approval  
 Source: China Telecom*

**Decision: Noted.**

**R4-2106483 UE REFSENS for 35 MHz and 45 MHz**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2106484 A-MPR for n1 45MHz**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107337 35-45MHz REFSENS for n2 n3 n8 n25 n71**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision: Noted.**

**R4-2107339 35MHz and 45MHz REFSENS**

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

**Decision: Noted.**

#### 7.25.4 BS RF requirements

### 7.26 Band combinations for Uu and V2X con-current operation

**R4-2105187 Email discussion summary for [98-bis-e][114] NR\_LTE\_V2X\_PC5\_combos**

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

**Discussion:**

**Decision: Revised to R4-2105451.**

**R4-2105451 Email discussion summary for [98-bis-e][114] NR\_LTE\_V2X\_PC5\_combos**

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

**Discussion:**

**Decision: Return to.**

#### 7.26.1 General and Rapporteur Input (WID/TR/CR)

**R4-2104770 Draft CR for TS 38.101-1, Introduce new band combination of V2X\_n79A-n47A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision: Revised to R4-2105367.**

**R4-2105367 Draft CR for TS 38.101-1, Introduce new band combination of V2X\_n79A-n47A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision: Return to.**

**R4-2104771 Draft CR for TS 38.101-3, Introduce new band combination of V2X\_n79A-47A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision: Revised to R4-2105368.**

**R4-2105368 Draft CR for TS 38.101-3, Introduce new band combination of V2X\_n79A-47A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision: Return to.**

**R4-2104772 TR 37.875, Band combinations for V2X con-current operation**

*Type: draft TR For: Agreement  
 37.875 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** to be email approved

**R4-2107297 Scope of NR V2X R17 combinations**

*Type: pCR For: Approval  
 37.875 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2105369.**

**R4-2105369 Scope of NR V2X R17 combinations**

*Type: pCR For: Approval  
 37.875 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

#### 7.26.2 UE RF requirement for concurrent operation between NR Uu band and NR PC5 band

**R4-2104769 TP on V2X\_n79A-n47A and V2X\_n79A-47A coexistence study**

*Type: pCR For: Approval  
 37.875 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision: Approved.**

#### 7.26.3 UE RF requirement for concurrent operation between LTE Uu band and NR PC5 band

#### 7.26.4 UE RF requirement for concurrent operation between NR Uu band and LTE PC5 band

#### 7.26.5 UE RF requirement for concurrent operation of LTE/NR CA/DC band combinations + PC5 V2X

### 7.27 Introduction of NR 47 GHz band

#### 7.27.1 UE RF (38.101-2)

**R4-2105188 Email discussion summary for [98-bis-e][115] NR\_47GHz\_Band**

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

**Discussion:**

**Decision: Revised to R4-2105452.**

**R4-2105452 Email discussion summary for [98-bis-e][115] NR\_47GHz\_Band**

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

**Discussion:**

**Decision: Return to.**

**R4-2105370 Way forward on n262 UE RF**

*Type: other For: Approval*

*Source: Nokia*

**Discussion:**

**Decision: Return to.**

**R4-2104492 Power class specific parameters for n262**

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

**Abstract:**

peak gain, spherical coverage of gain discussed

**Decision: Noted.**

##### 7.27.1.1 Peak EIRP and EIRP spherical coverage

**R4-2104516 Discussion on EIRP for PC1,PC2 and PC4**

*Type: discussion For: Approval  
 Source: vivo*

**Decision: Noted.**

**R4-2104695 Peak EIRP and EIRP spherical coverage for PC1, PC2, PC4 for n262**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision: Noted.**

**R4-2104712 EIRP requirements for n262 UE power class 1, 2, and 4**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

PC1/2/4 EIRP requirement is proposed.

**Decision: Noted.**

##### 7.27.1.2 Other UE TX requirements

**R4-2104713 Introduction of n262 UE RF requirements**

*Type: draftCR For: Endorsement  
 38.101-2 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

PC1/2/4 requirement is added to the PC3 endorsed CR.

**Decision: Not pursued.**

**R4-2104889 Beam correspondence side conditions for SSB and CSI-RS in band n262**

*Type: discussion For: Approval  
 Source: Apple*

**Decision: Noted.**

##### 7.27.1.3 REFSENS and EIS spherical coverage

**R4-2104517 Discussion on EIS for PC1,PC2 and PC4**

*Type: discussion For: Approval  
 Source: vivo*

**Decision: Noted.**

**R4-2104696 REFSENS and EIS spherical coverage for PC1, PC2, PC4 for n262**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision: Noted.**

**R4-2104714 EIS requirements for n262 UE power class 1, 2, and 4**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

PC1/2/4 EIS requirement is proposed.

**Decision: Noted.**

##### 7.27.1.4 Other UE RX requirements

#### 7.27.2 BS RF (38.104)

#### 7.27.4 Others

##### 7.27.4.4 Others

**R4-2106889 TR 38.847 Introduction of NR Band n262 (47GHz band)**

*Type: draft TR For: Agreement  
 38.847 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Updated TR with TPs agreed in RAN4#98-e

**Decision: Agreed.**

### 7.28 Introduction of NR band n24

**R4-2105189 Email discussion summary for [98-bis-e][116] NR\_LTE\_band\_n24**

*Type: other For: Information  
 Source: Moderator (Ligado Networks)*

**Discussion:**

**Decision: Revised to R4-2105453.**

**R4-2105453 Email discussion summary for [98-bis-e][116] NR\_LTE\_band\_n24**

*Type: other For: Information  
 Source: Moderator (Ligado Networks)*

**Discussion:**

**Decision: Return to.**

**R4-2105371 Way forward on n24 emissions and A-MPR**

*Type: other For: Approval*

*Source: Ligado Networks*

**Discussion:**

**Decision: Return to.**

#### 7.28.1 UE RF (38.101-1)

**R4-2107356 A-MPR for Band n24**

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

**Decision: Noted.**

#### 7.28.2 BS RF (38.104)

#### 7.28.3 RRM (38.133)

#### 7.28.4 Others

### 7.29 Introduction of NR band n67

**R4-2105190 Email discussion summary for [98-bis-e][117] NR\_n67\_n85\_NWM**

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

**Discussion:**

**Decision: Revised to R4-2105454.**

**R4-2105454 Email discussion summary for [98-bis-e][117] NR\_n67\_n85\_NWM**

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

**Discussion:**

**Decision: Return to.**

**R4-2105372 Way forward on band n85**

*Type: other For: Approval*

*Source: Ericsson*

**Discussion:**

**Decision: Return to.**

#### 7.29.1 UE RF (38.101-1)

#### 7.29.2 BS RF (38.104)

#### 7.29.3 RRM (38.133)

#### 7.29.4 Others

**R4-2106894 New NR band n67 - update**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution is giving an update on introducing band n67

**Decision: Noted.**

### 7.30 Introduction of NR band n85

#### 7.30.1 UE RF (38.101-1)

**R4-2106896 New NR band n85 - UE RF additional impacts**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution is analyzing the additional UE RF impacts when introducing band n85, after WID has been updated in last RAN#91e.

**Decision: Noted.**

#### 7.30.2 BS RF (38.104)

**R4-2106895 New NR band n85 - BS RF additional impacts**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution is analyzing the additional BS RF impacts when introducing band n85, after WID has been updated in last RAN#91e.

**Decision: Noted.**

#### 7.30.3 RRM (38.133)

#### 7.30.4 Others

### 7.31 Introduction of bandwidth combination set 4 (BCS4) for NR

**R4-2105191 Email discussion summary for [98-bis-e][118] NR\_BCS4**

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

**Discussion:**

**Decision: Revised to R4-2105455.**

**R4-2105455 Email discussion summary for [98-bis-e][118] NR\_BCS4**

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

**Discussion:**

**Decision: Return to.**

**R4-2105373 Way forward on Possible improvements on MSD in relation to BCS4**

*Type: other For: Approval*

*Source: Huawei*

**Discussion:**

**Decision: Return to.**

**R4-2105490 Way forward on open issues for BCS4 (other than MSD)**

*Type: other For: Approval*

*Source: T-Mobile USA*

**Discussion:**

**Decision: Return to.**

#### 7.31.1 General and Rapporteur Input (WID/TR/CR)

**R4-2105007 BCS4 discussion**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision: Noted.**

**R4-2106367 Templates for BCS4 configurations for inter-band NR CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106679 General discussion on introduction of BCS4**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107118 Further discussion on candidate methods for BCS4**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision: Noted.**

#### 7.31.2 UE RF requirements

**R4-2107327 BCS4 Progress**

*Type: discussion For: Approval  
 Source: T-Mobile USA*

**Decision: Noted.**

##### 7.31.2.1 MSD

**R4-2106677 Discussion on how to simplify MSD definition using bandwidth-agnostic approach**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107322 Impact of Large NR BW on Crossband MSD**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Decision: Noted.**

**R4-2107346 Urgency of new BCSs in the BCS4 WID**

*Type: discussion For: Approval  
 Source: T-Mobile USA Inc.*

**Decision: Noted.**

##### 7.31.2.2 Others (in case MPR/A-MPR is needed)

**R4-2106678 Discussion on MSD due to cross band isolation and counter intermodulations**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 7.31.3 Signalling

**R4-2105093 The signalling for BCS4**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106680 Discussion on UE capability for BCS4**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

### 7.32 High power UE for NR TDD intra-band carrier aggregation in frequency range FR1

**R4-2105192 Email discussion summary for [98-bis-e][119] NR\_intra\_HPUE\_UL\_MIMO\_bands**

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

**Discussion:**

**Decision: Revised to R4-2105456.**

**R4-2105456 Email discussion summary for [98-bis-e][119] NR\_intra\_HPUE\_UL\_MIMO\_bands**

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

**Discussion:**

**Decision: Return to.**

**R4-2105374 Way forward on PC2 UL MIMO for Band n40**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

#### 7.32.1 General and Rapporteur Input (WID/TR/CR)

#### 7.32.2 PC2 UE RF requirements

##### 7.32.2.1 Maximum output power

##### 7.32.2.2 A-MPR

##### 7.32.2.3 others

**R4-2107344 HPUE MPR with 1PA architecture**

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

**Abstract:**

HPUE contiguous ULCA MPR based on 1PA reference architecture.

**Decision: Noted.**

### 7.33 Additional NR bands for UL-MIMO

#### 7.33.1 General and Rapporteur Input (WID/TR/CR)

**R4-2107314 draftCR for TS 38.101-1: introduce UL MIMO configurations for band n40**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

#### 7.33.2 MPR/A-MPR requirement

#### 7.33.3 Others

### 7.34 Downlink interruption for band combinations to conduct dynamic Tx Switching

**R4-2105193 Email discussion summary for [98-bis-e][120] DL\_intrpt\_combos\_TxSW\_R17**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Revised to R4-2105457.**

**R4-2105457 Email discussion summary for [98-bis-e][120] DL\_intrpt\_combos\_TxSW\_R17**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Return to.**

#### 7.34.1 General and Rapporteur Input (WID/TR/CR)

**R4-2104801 TR 37.867 v0.2.0**

*Type: draft TR For: Approval  
 37.867 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** to be email approved

**R4-2106280 Draft CR to 38.101-1 Introduce DL interruption clarification for CA conduting Tx Switching**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision: Endorsed.**

#### 7.34.2 Determination of inter-band uplink CA and EN-DC combinations for which DL interruption is not allowed

**R4-2106281 TP to 37.867: DL interruption clarification for CA\_n1-n3-n78**

*Type: pCR For: Approval  
 37.867 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision: Return to.**

**R4-2104589 TP on update the note of DL interruption applicability for 37.867**

*Type: pCR For: Approval  
 37.867 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Revised to R4-2105375.**

**R4-2105375 TP on update the note of DL interruption applicability for 37.867**

*Type: pCR For: Approval  
 37.867 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Return to.**

**R4-2104590 TP on DL interruption applicability of CA\_n3-n40 for 37.867**

*Type: pCR For: Approval  
 37.867 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Revised to R4-2105376.**

**R4-2105376 TP on DL interruption applicability of CA\_n3-n40 for 37.867**

*Type: pCR For: Approval  
 37.867 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Return to.**

**R4-2104591 DL interruption applicability of dynamic Tx switching for different cases**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision: Noted.**

#### 7.34.3 Others

### 7.35 Simultaneous Rx/Tx band combinations for CA, SUL, MR-DC and NR-DC

**R4-2105194 Email discussion summary for [98-bis-e][121] Simultaneous\_RxTx**

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

**Discussion:**

**Decision: Revised to R4-2105458.**

**R4-2105458 Email discussion summary for [98-bis-e][121] Simultaneous\_RxTx**

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

**Discussion:**

**Decision: Return to.**

**R4-2105377 Way forward on Simultaneous Rx/Tx**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

#### 7.35.1 General and Rapporteur Input (WID/TR/CR)

**R4-2107311 TR skeleton for simultaneous Rx/Tx band combinations**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Agreed.**

#### 7.35.2 Criteria and analysis of Sim. RX/TX

**R4-2106386 Discussion on Simultaneous RxTx**

*Type: other For: Approval  
 Source: ShenZhen Zhongxing Shitong*

**Decision: Noted.**

**R4-2106553 R17 Discussion on simultaneous TxRx**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2107047 Discussion on general principle for simultaneous Rx/Tx band combinations for CA, SUL, MR-DC and NR-DC**

*Type: discussion For: Discussion  
 Source: CHTTL*

**Decision: Noted.**

**R4-2107310 On principles for deciding simultaneous Rx/Tx capability**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 7.35.3 Others

### 7.36 Support of full bandwidth combinations for inter-band EN-DC

**R4-2105195 Email discussion summary for [98-bis-e][122] Full\_BW\_Inter\_Band\_ENDC**

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

**Discussion:**

**Decision: Revised to R4-2105459.**

**R4-2105459 Email discussion summary for [98-bis-e][122] Full\_BW\_Inter\_Band\_ENDC**

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

**Discussion:**

**Decision: Return to.**

**R4-2105378 Way forward on how to handle the MSD requirements for inter-band ENDC**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

#### 7.36.1 General and Rapporteur Input (WID/TR/CR)

**R4-2106681 General discussion on support of full bandwidth combinations for inter-band EN-DC**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 7.36.2 UE RF requirements

**R4-2106682 Draft CR for 38.101-3 to introduce the missing MSD requirements (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.7.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2105379.**

**R4-2105379 Draft CR for 38.101-3 to introduce the missing MSD requirements (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.7.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

#### 7.36.3 Others

### 7.37 High-power UE operation for use cases in Band n77 and n78

**R4-2105196 Email discussion summary for [98-bis-e][123] HPUE\_PC1\_5\_n77\_n78**

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

**Discussion:**

**Decision: Revised to R4-2105460.**

**R4-2105460 Email discussion summary for [98-bis-e][123] HPUE\_PC1\_5\_n77\_n78**

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

**Discussion:**

**Decision: Return to.**

**R4-2105380 Way forward on MPR for PC 1.5**

*Type: other For: Approval*

*Source: T-Mobile USA*

**Discussion:**

**Decision: Return to.**

**R4-2105381 Way forward on UE RF requirements for PC 1.5 in Band n79**

*Type: other For: Approval*

*Source: CMCC*

**Discussion:**

**Decision: Return to.**

**R4-2105382 Way forward on RF exposure mitigation approaches for PC 1.5**

*Type: other For: Approval*

*Source: Samsung*

**Discussion:**

**Decision: Return to.**

#### 7.37.1 General

#### 7.37.2 PC1.5 UE RF requirements

**R4-2104975 MPR for PC 1.5 NR UE on n77/n78 or n79**

*Type: discussion For: Approval  
 Source: LG Electronics France*

**Abstract:**

MPR for PC1.5 n41 UL-MIMO UE will be reused for n77/n78 PC1.5 UE.

For FWA UE type, RAN4 can define different MPR/duty cycle ratio.

**Decision: Noted.**

##### 7.37.2.1 A-MPR

**R4-2107317 Discussion on PC1.5 performance for FWA**

*Type: discussion For: Discussion  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

antenna isolation assumptions of 10dB for smartphone UE used for band n41 is valid for bands n77/78 and thus current PC1.5 MPR applies. This paper discusses how these assumptions may change for WFA UEs and thus which potential MPR gains can be expected. T

**Decision: Noted.**

**R4-2107352 PC 1.5 for FWA devices**

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

**Decision: Noted.**

##### 7.37.2.2 others

**R4-2105035 MPE handling for high power FWA devices**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision: Noted.**

**R4-2107264 On the RF exposure limit for FWA PC1.5**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

### 7.38 Introduction of lower 6GHz NR unlicensed operation for Europe

**R4-2105197 Email discussion summary for [98-bis-e][124] NR\_6GHz\_unlic\_EU**

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

**Discussion:**

**Decision: Revised to R4-2105461.**

**R4-2105461 Email discussion summary for [98-bis-e][124] NR\_6GHz\_unlic\_EU**

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

**Discussion:**

**Decision: Return to.**

**R4-2105383 Way forward on introduction of lower 6GHz NR unlicensed operation for Europe**

*Type: other For: Approval*

*Source: Nokia*

**Discussion:**

**Decision: Return to.**

**R4-2105384 TP to TR 38.849 on NR-ARFCN and GSCN points**

*Type: other For: Approval*

*Source: Nokia*

**Discussion:**

**Decision: Return to.**

#### 7.38.1 General

**R4-2104882 Band plan for lower 6GHz NR unlicensed operation for Europe**

*Type: discussion For: Decision  
 Source: Apple*

**Decision: Noted.**

**R4-2106273 RF front-end supporting NRU in 6GHz EU spectrum with band n96**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In the RAN#94e, a way forward [1] was agreed that provided two options for the band definition for the 6GHz unlicensed European spectrum. In this contribution, we provide further input from [2] to justify the choice of n96 for this band definition.

**Decision: Noted.**

**R4-2107196 draft TR 38.849 v0.2.0**

*Type: draft TR For: Agreement  
 38.849 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of agreements and TPs provided at RAN4#98bis to TR 38.849

**Decision:** to be email approved

**R4-2107197 On system parameters for the lower 6GHz NR unlicensed operation**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

#### 7.38.2 UE RF requirements

**R4-2106274 A-MPR due to in-band PSD limit for 6GHz EU unlicensed spectrum**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution, base in our earlier work, we provide proposals for the A-MPR values of the cases that are limited by the in-band PSD emission requirements for European 6GHz unlicensed spectrum.

**Decision: Noted.**

**R4-2107198 On UE RF aspects for the lower 6GHz NR unlicensed operation**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2107351 A-MPR for European NR-U 6 GHz band**

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

**Decision: Noted.**

#### 7.38.3 BS RF requirements

**R4-2106604 Discussion on BS RF requirements for Europe unlicensed 6GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106659 draft CR for introduction of Europe unlicensed 6GHz**

*Type: draftCR For: (not specified)  
 38.104 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Not pursued.**

**R4-2107199 On BS RF aspects for the lower 6GHz NR unlicensed operation**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

#### 7.38.4 Others

**R4-2104883 On simultaneous low power and very low power operation**

*Type: discussion For: Decision  
 Source: Apple*

**Decision: Noted.**

### 7.39 Introduction of FR2 FWA UE with maximum TRP of 23dBm for band n259

**R4-2105198 Email discussion summary for [98-bis-e][125] NR\_FR2\_FWA\_Bn259**

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

**Discussion:**

**Decision: Revised to R4-2105462.**

**R4-2105462 Email discussion summary for [98-bis-e][125] NR\_FR2\_FWA\_Bn259**

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

**Discussion:**

**Decision: Return to.**

**R4-2105385 Way forward on PC5 requirements in n259**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

#### 7.39.1 UE RF

**R4-2104493 PC5 RF requirements in n259**

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

**Abstract:**

PC5 n259 proposals for RF requirements

**Decision: Noted.**

**R4-2104697 Views on RF requirement for FWA**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision: Noted.**

**R4-2106556 R17 n259 FWA**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2107341 PC5 RF requirements for band n259**

*Type: discussion For: Approval  
 Source: Intel Corporation*

**Decision: Noted.**

#### 7.39.3 Others

### 7.40 High power UE (power class 1.5) for NR band n79

#### 7.40.1 General

**R4-2104893 Considerations for PC1.5 with band n79**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision: Noted.**

**R4-2105010 Draft CR on PC1.5 HPUE SAR issue into Rel-16 TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v16.7.0 CR- rev Cat: A (Rel-16)  
  
 Source: CMCC*

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

**R4-2105011 Draft CR on PC1.5 HPUE SAR issue into Rel-17 TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: CMCC*

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

#### 7.40.2 PC1.5 UE RF requirements

**R4-2104957 Discussion on PC1.5 with n79**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2105012 Discussion on the PC1.5 UE RF requirements of NR n79**

*Type: discussion For: Approval  
 Source: CMCC*

**Decision: Noted.**

**R4-2105013 Draft CR on PC1.5 UE RF requirements of n79 in Rel-17 TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: CMCC*

**Decision: Not pursued.**

##### 7.40.2.1 A-MPR

**R4-2107353 PC 1.5 in Band n79**

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

**Decision: Noted.**

##### 7.40.2.2 others

### 7.41 High power UE (power class 2) for NR band n34

**R4-2105199 Email discussion summary for [98-bis-e][126] HPUE\_n79\_n34\_n39**

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

**Discussion:**

**Decision: Revised to R4-2105463.**

**R4-2105463 Email discussion summary for [98-bis-e][126] HPUE\_n79\_n34\_n39**

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

**Discussion:**

**Decision: Return to.**

**R4-2105386 Way forward on PC2 n34 and n39 for NR**

*Type: other For: Approval*

*Source: CMCC*

**Discussion:**

**Decision: Return to.**

#### 7.41.1 General

#### 7.41.2 UE RF requirements

**R4-2105014 Discussion on the PC2 UE RF requirements of NR n34**

*Type: discussion For: Approval  
 Source: CMCC*

**Decision: Noted.**

**R4-2105015 Draft CR on PC2 UE RF requirements of n34 in Rel-17 TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: CMCC*

**Decision: Not pursued.**

**R4-2106548 Discussion on HP UE for Band n34**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

#### 7.41.3 Others

### 7.42 High power UE (power class 2) for NR band n39

#### 7.42.1 General

#### 7.42.2 UE RF requirements

**R4-2105016 Discussion on the PC2 UE RF requirements of NR n39**

*Type: discussion For: Approval  
 Source: CMCC*

**Decision: Noted.**

**R4-2105017 Draft CR on PC2 UE RF requirements of n39 in Rel-17 TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: CMCC*

**Decision: Not pursued.**

**R4-2106549 Discussion on HP UE for Band n39**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

#### 7.42.3 Others

### 7.43 Introduction of 900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

**R4-2105200 Email discussion summary for [98-bis-e][127] RAIL\_900\_1900MHz**

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

**Discussion:**

**Decision: Revised to R4-2105464.**

**R4-2105464 Email discussion summary for [98-bis-e][127] RAIL\_900\_1900MHz**

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

**Discussion:**

**Decision: Return to.**

**R4-2105387 Way forward on RMR 900MHz and 1900MHz**

*Type: other For: Approval*

*Source: UIC*

**Discussion:**

**Decision: Return to.**

#### 7.43.1 General

**R4-2107312 On RMR 900MHz band**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 7.43.2 UE RF requirements

#### 7.43.3 BS RF requirements

#### 7.43.4 Others

### 7.44 Introduction of 1900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

#### 7.44.1 General

**R4-2107313 On RMR 1900MHz band**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 7.44.2 UE RF requirements

#### 7.44.3 BS RF requirements

#### 7.44.4 Others

## 8 Rel-17 non-spectrum related work items for NR

### 8.2 RF requirements enhancement for NR frequency range 1 (FR1)

#### 8.2.1 General and work plan

**R4-2105201 Email discussion summary for [98-bis-e][128] NR\_RF\_FR1\_enh\_Part\_1**

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

**Discussion:**

**Decision: Revised to R4-2105465.**

**R4-2105465 Email discussion summary for [98-bis-e][128] NR\_RF\_FR1\_enh\_Part\_1**

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

**Discussion:**

**Decision: Return to.**

**R4-2105388 Way forward on MPR/AMPR requirements for PC2 intra-band UL contiguous CA**

*Type: other For: Approval*

*Source: Skyworks*

**Discussion:**

**Decision: Return to.**

**R4-2105389 Way forward on RF architecture options handling for PC2 intra-band UL NC CA**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

**R4-2105390 Way forward on intra-band UL contiguous CA for UL MIMO**

*Type: other For: Approval*

*Source: vivo*

**Discussion:**

**Decision: Return to.**

#### 8.2.2 RF core requirements

##### 8.2.2.1 UL MIMO configuration for SUL band configurations

**R4-2104637 DraftCR to TS 38.101-1 on switching time between SUL and NUL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision: Not pursued.**

##### 8.2.2.2 2Tx switching between carrier 1 and carrier 2

**R4-2105202 Email discussion summary for [98-bis-e][129] NR\_RF\_FR1\_enh\_Part\_2**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Revised to R4-2105466.**

**R4-2105466 Email discussion summary for [98-bis-e][129] NR\_RF\_FR1\_enh\_Part\_2**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Discussion:**

**Decision: Return to.**

**R4-2104638 Further discussion on UL Tx switching in Rel-17**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision: Noted.**

**R4-2105087 MPR for 26 dBm transmissions on switched carriers**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we address MPR for 26 dBm on switched carriers for any band combination (SUL/NUL and UL CA)

**Decision: Noted.**

##### 8.2.2.3 Tx switching between 1 carrier on band A and 2 contiguous aggregated carriers on band B

**R4-2104592 Draft CR to 38.101-1 Correction on DL interruption applicability for inter-band CA**

*Type: draftCR For: Approval  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Revised to R4-2105488.**

**R4-2105488 Draft CR to 38.101-1 Correction on DL interruption applicability for inter-band CA**

*Type: draftCR For: Approval  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision: Return to.**

**R4-2104593 Discussion on DL interruption applicability**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision: Noted.**

**R4-2104639 draftCR on Rel-17 UL Tx switching time mask for 2Tx-2Tx switching between two carriers and 1Tx-2Tx/2Tx-2Tx switching between two bands in Rel-17**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision: Not pursued.**

##### 8.2.2.4 HPUE for TDD intra-band contiguous UL CA

**R4-2104655 FR1 PC2 Contiguous UL CA Simulation Results**

*Type: discussion For: Discussion  
 Source: Nokia Corporation*

**Decision: Noted.**

**R4-2104994 MPR initial simulation results for NR intra-band contiguous CA according to candidate RF architectures**

*Type: discussion For: Discussion  
 Source: LG Electronics France*

**Abstract:**

Provide MPR simulation results for PC2 Intra-band contiguous CA according to RF architecture

**Decision: Revised to R4-2105325.**

**R4-2105325 MPR initial simulation results for NR intra-band contiguous CA according to candidate RF architectures**

*Type: discussion For: Discussion  
 Source: LG Electronics France*

**Abstract:**

Provide MPR simulation results for PC2 Intra-band contiguous CA according to RF architecture

**Decision: Noted.**

**R4-2106304 PC2 Class C UL CA UE Architecture and MPR/A-MPR evaluation**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This contribution discusses the PC2 contiguous UL CA transmitter architecture and associated MPR requirements options and reuses the measured data from [2] to make proposals for PC2 class B and C UL CA MPR and NS04 A-MPR.

**Decision: Noted.**

**R4-2107260 on HPUE intra-band contiguous CA MPR**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

**R4-2107370 HPUE MPR with 1PA architecture**

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

**Decision: Noted.**

##### 8.2.2.5 HPUE for TDD intra-band non-contiguous UL CA

**R4-2104437 Potential issues on UL Intra band NC CA with 1PA/1LO assumption**

*Type: other For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia Japan*

**Abstract:**

This contribution discusses foreseeable challenges to proceed with specification development with 1LO architectures.

**Decision: Noted.**

**R4-2104819 Discussion on Transmitter Architecture for PC2 UL NC CA**

*Type: discussion For: Approval  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution, we provide a detailed analysis of the different architectures and their impact on the requirements or applicability together with some initial back-off evaluation of the different options through coupled PA measurements.

**Decision: Noted.**

**R4-2105088 Power capability and back-off for NC (and contigous) intra-band CA**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss the power capability, power prioritizations and MPR for intra-band UL CA, both contigous and non-contigous. SAR compliance and duty cycles are also treated.

**Decision: Noted.**

**R4-2106366 On PC2 intra-band non-contiguous NR CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106542 Discussion on HP UE for TDD intra-band UL CA**

*Type: other For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106543 LS on UE capability for PC2 TDD intra-band contiguous and non-contiguous CA**

*Type: LS out For: Approval  
 to RAN2  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2107261 HPUE intra-band non-contiguous CA architecture**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

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

**R4-2107282 Discussion on possible reference architecture for nc ul ca**

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

**Decision: Noted.**

##### 8.2.2.6 Intra-band UL contiguous CA for UL MIMO (n41C and n78C)

**R4-2104956 Requirements analysis for Intra-band UL contiguous CA for UL-MIMO**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2106562 R17 FR1 UL CA with MIMO**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2107274 RF requirements for intra-band UL CA for UL MIMO**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

**R4-2107278 draft CR on contiguous CA with UL MIMO for power class 3**

*Type: draftCR For: Endorsement  
 38.101-1 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Return to.**

### 8.3 NR RF requirement enhancements for frequency range 2 (FR2)

#### 8.3.1 General and work plan

**R4-2105203 Email discussion summary for [98-bis-e][130] NR\_RF\_FR2\_req\_enh2\_Part\_1**

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

**Discussion:**

**Decision: Revised to R4-2105467.**

**R4-2105467 Email discussion summary for [98-bis-e][130] NR\_RF\_FR2\_req\_enh2\_Part\_1**

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

**Discussion:**

**Decision: Return to.**

**R4-2105391 Way forward on IBM Requirements**

*Type: other For: Approval*

*Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

**Decision: Return to.**

**R4-2105392 Way forward on UE requirements for CA configurations based on CBM**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

**R4-2105393 Way forward on Inter-band UL CA**

*Type: other For: Approval*

*Source: Samsung*

**Discussion:**

**Decision: Return to.**

**R4-2104559 Add beam management type after particular band combination requirement**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal: Add “\_IBM” or “\_CBM” after particular band combination requirement directly to show the requirement is for IBM or CBM.

**Decision: Noted.**

#### 8.3.2 RF core requirements

##### 8.3.2.1 Inter-band DL CA enhancements

**R4-2106287 Discussion on RF requirements for inter-band DL CA based on CBM and IBM**

*Type: discussion For: (not specified)  
 Source: LG Electronics Polska*

**Abstract:**

It discusses RF requirements for inter-band DL CA based on CBM and IBM.

**Decision: Noted.**

###### 8.3.2.1.1 Applicability of CBM/IBM for different CA configurations

**R4-2104490 Draft CR to 38.101-2 on requirements for UEs that support inter-band CA with CBM**

*Type: draftCR For: Agreement  
 38.101-2 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Requirements based on Ue architecture study

**Decision: Return to.**

**R4-2104491 Requirement framework for Inter-band CA with CBM**

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

**Abstract:**

Requirements based on Ue architecture study

**Decision: Noted.**

**R4-2105095 Applicability of CBM/IBM for different CA configurations**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106364 Discussion on CBM&IBM for FR2 Inter-band DL CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2107108 Discussion on FR2 inter-band DL CA with CBM and IBM**

*Type: discussion For: Approval  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Google Inc.*

**Decision: Noted.**

###### 8.3.2.1.2 UE requirements for CA configurations CA\_n258A-n260A and CA\_n257A-n259A based on IBM

**R4-2104561 RIB proposal of CA\_n258A-n260A and CA\_n257A-n259A based on IBM**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal 1: The relaxation values shall be further discussed based on per band pair case by case.

Proposal 2: PC3 ?RIB of CA\_n258A-n260A and CA\_n257A-n259A based on IBM shall be defined as the table in Tdoc.

**Decision: Noted.**

**R4-2104698 UE requirements for CA based on IBM**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision: Noted.**

**R4-2104715 FR2 inter-band CA for different frequency band groups with IBM**

*Type: pCR For: Approval  
 38.851 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

TP is provided for FR2 inter-band CA for different frequency band groups with IBM

**Decision: Return to.**

**R4-2105096 Rx requirements for CA\_n258A-n260A and CA\_n257A-n259A based on IBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106346 Band specific requirements for DL CA\_n257-n259 including TP for TR 38.851**

*Type: other For: Approval  
 38.851 v CR- rev Cat: (Rel-17)  
  
 Source: NTT DOCOMO INC.*

**Decision: Return to.**

**R4-2106365 Discussion on UE requirements for CA configurations of CA\_n258-n260 and CA\_n257-n259 based on IBM**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106565 R17 FR2 Inter-band DL CA with IBM**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

###### 8.3.2.1.3 UE requirements for CA configurations within the same frequency group based on CBM

**R4-2104401 UE RF CBM requirements for CA configurations within same frequency group**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2104524 Discussion on EIS spherical coverage and Fs,inter for CBM**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2104562 Introduce Fs\_inter\_CBM as UE capability for inter-band DL CA based on CBM**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal: Introduce ‘Fs\_inter\_CBM’ as UE capability to indicate the maximum frequency span between lower edge of lowest CC and upper edge of highest CC in FR2 inter-band CA based on CBM which UE can support

**Decision: Noted.**

**R4-2104699 UE requirements for CA based on CBM**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision: Noted.**

**R4-2105097 Rx requirements for inter-band DL CA within the same frequency groups based on CBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106564 R17 FR2 Inter-band DL CA within same frequency group based on CBM**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2107262 inter-band CA DL CA with CBM**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

##### 8.3.2.2 Inter-band UL CA

**R4-2104525 Discussion on per UE concept of FR2 UL CA**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2106289 Discussion on RF requirements for inter-band UL CA based on IBM**

*Type: discussion For: (not specified)  
 Source: LG Electronics Polska*

**Abstract:**

It discusses RF requirements for inter-band UL CA based on IBM.

**Decision: Noted.**

###### 8.3.2.2.1 UE requirements for CA configuration CA\_n257A-n259A based on IBM

**R4-2104560 Proposal on inter-band UL CA requirement framework**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal 1: For inter-band UL CA, specify max EIRP as per band (i.e. Option1)

Proposal 2: For inter-band UL CA, specify min Peak EIRP as per band with 3dB relaxed requirement compared to single-CC (i.e. Option 1c)

**Decision: Noted.**

**R4-2104706 UE UL CA requirements based on IBM**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision: Noted.**

**R4-2104716 On FR2 inter-band UL CA for different frequency group based on IBM**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

EIRP requirement for FR2 UL CA for IBM different frequency gropu is discussed.

**Decision: Noted.**

**R4-2104918 Definition of Max EIRP limit for FR2 ULCA**

*Type: other For: Approval  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Provides definition for EIRP for FR2 ULCA

**Decision: Noted.**

**R4-2105098 Tx requirements for inter-band UL CA for two bands between different frequency groups based on IBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106402 UE requirements for FR2 UL Inter-band CA from the perspective of Japanese regulations**

*Type: other For: Information  
 Source: NTT DOCOMO, INC., SoftBank Corp., KDDI Corporation, Rakuten Mobile, Inc*

**Decision: Noted.**

**R4-2106563 R17 FR2 Inter-band UL CA**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

#### 8.3.3 Feasibility study

##### 8.3.3.1 Inter-band DL CA enhancements

**R4-2106290 Discussion on feasibility for inter-band DL CA**

*Type: discussion For: (not specified)  
 Source: LG Electronics Polska*

**Abstract:**

It discusses feasibility for inter-band DL CA.

**Decision: Noted.**

###### 8.3.3.1.1 Feasibility study for CA configurations within same frequency group based on IBM

**R4-2104400 UE RF IBM requirements for CA configurations within same frequency group**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2105099 The feasibility of inter-band CA within the same frequency group for IBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2107265 inter-band CA DL CA with IBM**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

###### 8.3.3.1.2 Feasibility study for CA configurations between different frequency groups based on CBM

**R4-2105042 Discussion on CBM inter-band CA**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision: Noted.**

**R4-2105100 The feasibility of inter-band CA between different frequency groups for CBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

#### 8.3.4 UL gaps for self-calibration and monitoring

**R4-2105205 Email discussion summary for [98-bis-e][132] NR\_RF\_FR2\_req\_enh2\_Part\_3**

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

**Discussion:**

**Decision: Revised to R4-2105469.**

**R4-2105469 Email discussion summary for [98-bis-e][132] NR\_RF\_FR2\_req\_enh2\_Part\_3**

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

**Discussion:**

**Decision: Return to.**

**R4-2105394 Way forward on UL gap for FR2**

*Type: other For: Approval*

*Source: Apple*

**Discussion:**

**Decision: Return to.**

##### 8.3.4.1 Gap use cases and performance evaluation

**R4-2104526 Discussion on gap for PA calibration**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2104610 the evaluation metrics for performance gain**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision: Noted.**

**R4-2104849 UL gaps for Tx power management**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision: Noted.**

**R4-2104920 Discussion on UL gap for self-calibration and monitoring**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2105089 Open issues for UL gaps for Body Proximity Sensing (BPS) and calibration**

*Type: discussion For: Discussion  
 Source: Ericsson, Sony*

**Abstract:**

Listing open issues wrt UL gaps used for body proximity sensing

**Decision: Noted.**

**R4-2106396 UE FR2 UL Gap for P-MPR/EIRP enhancements**

*Type: discussion For: Approval  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2107034 Consideration on FR2 UL gap for self-calibration**

*Type: other For: Approval  
 Source: NTT DOCOMO INC.*

**Decision: Noted.**

**R4-2107267 On FR2 UL gap for coherence calibration**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

**R4-2107269 on FR2 UL gap for transceiver calibration**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

**R4-2107279 UL calibration gap performance improvement and fall back behavior**

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

**Decision: Noted.**

##### 8.3.4.2 Others

**R4-2107280 UL cal gap types and applicability**

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

**Decision: Noted.**

#### 8.3.5 Support of contiguous downlink aggregated channel BW up to 1600 MHz

**R4-2105204 Email discussion summary for [98-bis-e][131] NR\_RF\_FR2\_req\_enh2\_Part\_2**

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

**Discussion:**

**Decision: Revised to R4-2105468.**

**R4-2105468 Email discussion summary for [98-bis-e][131] NR\_RF\_FR2\_req\_enh2\_Part\_2**

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

**Discussion:**

**Decision: Return to.**

**R4-2105395 Way forward on DC location parameters**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

**R4-2105396 Way forward on new CA BW class notation**

*Type: other For: Approval*

*Source: ZTE*

**Discussion:**

**Decision: Return to.**

**R4-2105397 Draft CR on CA BW class 1600 MHz for fallback group 2**

*Type: draftCR For: Approval  
 38.101-2 v17.1.0 CR- rev Cat: B (Rel-17)*

*Source: Xiaomi*

**Discussion:**

**Decision: Return to.**

##### 8.3.5.1 New FR2 CA BW classes

**R4-2105101 Introducing new bandwidth classes for FR2 CA**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106907 New FR2 CA BW classes**

*Type: other For: Approval  
 Source: Apple*

**Decision: Noted.**

**R4-2107266 on FR2 CA bandwidth class**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

##### 8.3.5.2 UE Rx requirements

**R4-2105102 Rx requirements for new bandwidth classes**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

#### 8.3.6 DC location reporting scheme for intra-band UL CA with more than 2 CCs for both FR2 and FR1

**R4-2106566 R17 DC reporting for more than 2CCs**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2106910 DC location for intra-band UL CA with more than 2 CCs**

*Type: other For: Discussion  
 Source: Apple*

**Decision: Noted.**

**R4-2107257 Further study on DC location reporting**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

**R4-2107281 DC location for greater than 2CC**

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

**Decision: Noted.**

### 8.7 NR support for high speed train scenario in FR2

#### 8.7.1 General and work plan

**R4-2105206 Email discussion summary for [98-bis-e][133] NR\_HST\_FR2\_enh**

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

**Discussion:**

**Decision: Revised to R4-2105470.**

**R4-2105470 Email discussion summary for [98-bis-e][133] NR\_HST\_FR2\_enh**

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

**Discussion:**

**Decision: Return to.**

**R4-2105398 Way forward on UE RF requirement for FR2 HST**

*Type: other For: Approval*

*Source: Samsung*

**Discussion:**

**Decision: Return to.**

**R4-2106397 TR for FR2 HST**

*Type: draft TR For: Endorsement  
 38.854 v0.0.2 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Samsung*

**Decision: Revised to R4-2105399.**

**R4-2105399 TR for FR2 HST**

*Type: draft TR For: Endorsement  
 38.854 v0.0.2 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Samsung*

**Decision: Return to.**

#### 8.7.3 UE RF core requirements

**R4-2104906 FR2 HST RF discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision: Noted.**

##### 8.7.3.1 Baseline power class and UE RF requirement

**R4-2104585 Consideration on UE beam and pwr requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Ericsson France S.A.S*

**Abstract:**

Further discussion on the need for beams and UE pwr requirements

**Decision: Noted.**

**R4-2104719 UE power class for FR2 HST**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

spherical coverage aspect of rooftop mounted antenna is discussed.

**Decision: Noted.**

**R4-2105026 On baseline power class and UE RF requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision: Noted.**

##### 8.7.3.2 Beam correspondence

**R4-2104586 Considerations on Beam correspondance for HST FR2 Ues**

*Type: discussion For: Discussion  
 Source: Ericsson France S.A.S*

**Abstract:**

Considerations on Beam correspondance for HST FR2 Ues

**Decision: Noted.**

**R4-2104720 UE beam correspondence for FR2 HST**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Beam correspondencd tolerance shall not be requried for FR2 HST.

**Decision: Noted.**

**R4-2106333 On Beam Correspondence Requirement for FR2 HST UE**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision: Noted.**

##### 8.7.3.3 Others

### 8.10 NR Sidelink enhancement

#### 8.10.1 General and work plan

**R4-2105207 Email discussion summary for [98-bis-e][134] NRSL\_enh\_Part\_1**

*Type: other For: Information  
 Source: Moderator (LG Electronics)*

**Discussion:**

**Decision: Revised to R4-2105471.**

**R4-2105471 Email discussion summary for [98-bis-e][134] NRSL\_enh\_Part\_1**

*Type: other For: Information  
 Source: Moderator (LG Electronics)*

**Discussion:**

**Decision: Return to.**

**R4-2105400 Way forward on general principle for SL enhancements**

*Type: other For: Approval*

*Source: LG Electronics*

**Discussion:**

**Decision: Return to.**

**R4-2104528 General discussions on operating bands for SL transmission**

*Type: discussion For: Approval  
 Source: vivo*

**Abstract:**

1.Use more technically term ’intra-band concurrent operation’ instead of ‘licensed bands partially used for SL’.

2. Release independent issues for SL bands.

**Decision: Noted.**

**R4-2104533 TP for SL enhancements**

*Type: other For: Approval  
 Source: vivo*

**Abstract:**

Introducing operating bands and system parameters for SL;

**Decision: Noted.**

**R4-2104969 TR38.xxx v0.1.0 TR Update for SL enhancement in Rel-17**

*Type: other For: Endorsement  
 Source: LG Electronics France*

**Abstract:**

Draft TR to capture approved TPs for SL enhancement WI in this meeting

**Decision:** to be email approved

**R4-2106676 Discussion on Rel-16 NR V2X AMPR value for both NS\_33 and NS\_52**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

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

#### 8.10.2 Spectrum request for SL operation

#### 8.10.3 System parameters (numerologies, rasters, CBW, etc)

**R4-2104529 Discussion on system parameters for newly introduced SL bands**

*Type: discussion For: Approval  
 Source: vivo*

**Abstract:**

1. Channel raster for n14;

2. Frequency rater shift for n14..

**Decision: Noted.**

**R4-2104775 TP on CBW and system parameters for newly introduced SL bands**

*Type: other For: Approval  
 Source: CATT*

**Decision: Revised to R4-2105401.**

**R4-2105401 TP on CBW and system parameters for newly introduced SL bands**

*Type: other For: Approval  
 Source: CATT*

**Decision: Return to.**

**R4-2107305 On CBW for licensed band supporting NR V2X**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 8.10.4 UE RF requirements for NR SL enhancement

**R4-2104971 TP on operating scenarios for NR SL enhancements in Rel-17**

*Type: other For: Approval  
 Source: LG Electronics France*

**Abstract:**

propose TP to add operating scenarios for NR SL enhancement in Rel-17

**Decision: Revised to R4-2105402.**

**R4-2105402 TP on operating scenarios for NR SL enhancements in Rel-17**

*Type: other For: Approval  
 Source: LG Electronics France*

**Abstract:**

propose TP to add operating scenarios for NR SL enhancement in Rel-17

**Decision: Return to.**

**R4-2106291 CR for TS 38.101-3 switching period for V2X con-current operation**

*Type: CR For: (not specified)  
 38.101-3 v16.7.0 CR-0512 rev Cat: F (Rel-16)  
  
 Source: Xiaomi*

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

**R4-2106292 CR for TS 38.101-3 switching period for V2X con-current operation**

*Type: CR For: (not specified)  
 38.101-3 v17.1.0 CR-0513 rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

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

**R4-2106297 on switching period**

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

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

##### 8.10.4.1 TX requirements

##### 8.10.4.2 RX requirements

**R4-2104776 TP on UE Rx RF requirement for NR SL enhancement**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

#### 8.10.5 Partially used SL operation with NR Uu operating bands

**R4-2105208 Email discussion summary for [98-bis-e][135] NRSL\_enh\_Part\_2**

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

**Discussion:**

**Decision: Revised to R4-2105326.**

**R4-2105326 Email discussion summary for [98-bis-e][135] NRSL\_enh\_Part\_2**

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

**Discussion:**

**Decision: Revised to R4-2105472.**

**R4-2105472 Email discussion summary for [98-bis-e][135] NRSL\_enh\_Part\_2**

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

**Discussion:**

**Decision: Return to.**

**R4-2105403 Way forward on operating scenarios for SL and Uu operated in the same licensed band**

*Type: other For: Approval*

*Source: CATT*

**Discussion:**

**Decision: Return to.**

**R4-2105404 Way forward on synchronization issue for SL and Uu operated in the same licensed band**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

**R4-2104970 RF requirements for partial used licensed band bewteen NR Uu and NR SL operation**

*Type: other For: Approval  
 Source: LG Electronics France*

**Abstract:**

provide our view on TDM operation and FDM operation for partial usage between NR V2X and NR Uu operation in licensed band.

**Decision: Noted.**

**R4-2104972 TP on MPR/coexistence simulation assumptions for leftover issues**

*Type: other For: Approval  
 Source: LG Electronics France*

**Abstract:**

TP to add MPR/A-MPR simulation assumptions for leftover issues

**Decision: Revised to R4-2105405.**

**R4-2105405 TP on MPR/coexistence simulation assumptions for leftover issues**

*Type: other For: Approval  
 Source: LG Electronics France*

**Abstract:**

TP to add MPR/A-MPR simulation assumptions for leftover issues

**Decision: Return to.**

**R4-2106301 MPR for NR V2X intra-band con-current operation with Uu**

*Type: discussion For: (not specified)  
 Source: LG Electronics Polska*

**Abstract:**

It discusses MPR for NR V2X intra-band con-current operation with Uu based on simulation results.

**Decision: Noted.**

##### 8.10.5.1 FDM operation

**R4-2104530 Further discussion on operation mode and core requirements for licensed bands partially used for SL**

*Type: discussion For: Approval  
 Source: vivo*

**Abstract:**

1.TDM/FDM operation for intra-band concurrent opertion.

2.Core requirements for TDM/FDM operation.

**Decision: Noted.**

**R4-2104778 Discussion on FDM operation between SL and Uu**

*Type: discussion For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2106293 on FDM operation for partially used SL operation**

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

**Decision: Noted.**

**R4-2106554 R17 V2X FDM operation**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2107241 FDM operation for partially used SL operation in licensed band**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the FDM operation remaining issues

**Decision: Noted.**

**R4-2107303 On FDM operation for SL and Uu in licensed bands**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

##### 8.10.5.2 TDM operation

**R4-2104777 Discussion on TDM operation between SL and Uu**

*Type: discussion For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2106298 on TDM operation for partially used SL operation**

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

**Decision: Noted.**

**R4-2107304 On TDM operation for SL and Uu in licensed bands**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

##### 8.10.5.3 Synchronous operation between NR Uu and NR SL in a TDD band

**R4-2104779 Discussion on synchronous operation between SL and Uu**

*Type: discussion For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2104919 Synchronization and timing reference for NR SL and general issues on SL enhancements**

*Type: other For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Discusses synchronization and timing reference for NR SL

**Decision: Noted.**

**R4-2106299 synchronous operation between NR Uu and NR SL in an operating band**

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

**Decision: Noted.**

**R4-2106555 R17 V2X synchronization**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

**R4-2107243 SL UE synchronization issue for licensed operation**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on synchronization issue in licensed band operation

**Decision: Noted.**

**R4-2107302 On synchronous operation between Uu and SL**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

##### 8.10.5.4 Others

**R4-2104780 LS on synchronous operation between Uu and SL in licensed band**

*Type: LS out For: Agreement  
 to RAN1  
 Source: CATT*

**Decision: Revised to R4-2105406.**

**R4-2105406 LS on synchronous operation between Uu and SL in licensed band**

*Type: LS out For: Agreement  
 to RAN1  
 Source: CATT*

**Decision: Return to.**

#### 8.10.6 High power UE(PC2) for SL

**R4-2105209 Email discussion summary for [98-bis-e][136] NRSL\_enh\_Part\_3**

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

**Discussion:**

**Decision: Revised to R4-2105329.**

**R4-2105329 Email discussion summary for [98-bis-e][136] NRSL\_enh\_Part\_3**

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

**Discussion:**

**Decision: Revised to R4-2105473.**

**R4-2105473 Email discussion summary for [98-bis-e][136] NRSL\_enh\_Part\_3**

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

**Discussion:**

**Decision: Return to.**

**R4-2105407 Way forward on PC2 NR V2X**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

##### 8.10.6.1 TX requirements

**R4-2104531 Further discussion on HPUE for SL enhancements**

*Type: discussion For: Approval  
 Source: vivo*

**Abstract:**

HPUE for inter-band con-current and related RF requirements.

**Decision: Noted.**

**R4-2105000 NR V2X PC2 UE MPR and A-MPR simulation results for PSCCH/PSSCH in n47**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Decision: Noted.**

**R4-2106295 on HPUE for V2X RF requirements**

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

**Decision: Noted.**

**R4-2106673 Discussion on n47 PC2 MPR simulation results**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

##### 8.10.6.2 Coexistence study

**R4-2104532 Initial results for coexistence evaluation in n38**

*Type: other For: Information  
 Source: vivo*

**Abstract:**

Provide initial results for intra-band concurrent opertion in n38.

**Decision: Revised to R4-2105408.**

**R4-2105408 Initial results for coexistence evaluation in n38**

*Type: other For: Information  
 Source: vivo*

**Abstract:**

Provide initial results for intra-band concurrent opertion in n38.

**Decision: Return to.**

**R4-2106675 Discussion on the SL adjacent coexistence simulation results for PC2**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

##### 8.10.6.3 Others

**R4-2106296 on HPUE signalling issue**

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

**Decision: Noted.**

**R4-2106674 Discussion on n47 PC2 AMPR simulation results**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107242 On PC2 power class V2X UE**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our views on PC2 V2X UE in n38 from the regulatory/co-existence aspect

**Decision: Noted.**

#### 8.10.7 Other RF/general requirements for New SL enhancement

### 8.12 Extending current NR operation to 71GHz

#### 8.12.1 General and work plan

**R4-2105210 Email discussion summary for [98-bis-e][137] NR\_ext\_to\_71GHz\_Part\_1\_NWM**

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

**Discussion:**

**Decision: Revised to R4-2105328.**

**R4-2105328 Email discussion summary for [98-bis-e][137] NR\_ext\_to\_71GHz\_Part\_1\_NWM**

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

**Discussion:**

**Decision: Revised to R4-2105474.**

**R4-2105474 Email discussion summary for [98-bis-e][137] NR\_ext\_to\_71GHz\_Part\_1\_NWM**

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

**Discussion:**

**Decision: Return to.**

**R4-2105410 Way forward on WF on [137] NR\_ext\_to\_71GHz\_Part1**

*Type: other For: Approval*

*Source: Intel*

**Discussion:**

**Decision: Return to.**

**R4-2105411 Reply LS to RAN1 on max/min CBW and channelization for NR operation in 52.6 - 71 GHz**

*Type: LS out For: Approval*

*Source: Intel*

**Discussion:**

**Decision: Return to.**

**R4-2104535 Further discussion on the minimum and maximum channel bandwidths for B52.6G**

*Type: discussion For: Approval  
 Source: vivo*

**Abstract:**

1.Based on LS from RAN1, dicuss the channel bandwidths for B52.6G.

**Decision: Noted.**

**R4-2104537 Draft Reply LS on bandwidth and channelization**

*Type: LS out For: Approval  
 to RAN1  
 Source: vivo*

**Abstract:**

Reply LS to RAN1.

**Decision: Noted.**

**R4-2104895 Testability aspects for the 52.6 GHz to 71 GHz frequency range**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision: Noted.**

**R4-2106300 work plan of extending NR to 71GHz**

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

**Decision: Noted.**

**R4-2106464 NR 52.6 - 71 GHz work plan**

*Type: Work Plan For: Approval  
 Source: Intel Corporation*

**Decision: Revised to R4-2105412.**

**R4-2105412 NR 52.6 - 71 GHz work plan**

*Type: Work Plan For: Approval  
 Source: Intel Corporation*

**Decision: Return to.**

**R4-2106665 Work plan considerations for NR extension to 71 GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2106692 On 52.6 to 71 GHz minimum/maximum channel bandwidth, draft LS to RAN1**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

Discussion on minimum and maximum channel bandwidths with draft reply to RAN1

**Decision: Noted.**

#### 8.12.2 Band plans and regulatory requirements

**R4-2104534 Discussion on band plan for B52.6GHz**

*Type: discussion For: Approval  
 Source: vivo*

**Abstract:**

1.Band definition based on regulatory requirements for 60GHz.

2.How to handle ITS 63~64G.

**Decision: Noted.**

**R4-2104802 Discussion on the band plan of 52.6-71 GHz**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2104885 Regulatory status for the frequency range 52.6 GHz to 71 GHz and potential band plan**

*Type: discussion For: Decision  
 Source: Apple*

**Decision: Noted.**

**R4-2106465 On spectrum situation and band plan for 52.6 - 71 GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision: Noted.**

**R4-2106587 Discussion on band plan for 52.6-71GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2107076 bandplan for 52-71GHz frequency range**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Proposal on bandplan for 52-71GHz frequency range

**Decision: Noted.**

**R4-2107189 Bandplan for a NR band in the range 52.6GHz – 71GHz**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

#### 8.12.3 System parameters (numerologies, rasters, CBW, etc)

**R4-2104536 General discussion on channel raster and sync raster for B52.6G**

*Type: discussion For: Approval  
 Source: vivo*

**Abstract:**

Channel/Sync raster design for B52.6G.

**Decision: Noted.**

**R4-2104594 Discussion on system parameters for NR in 52.6GHz ~ 71GHz**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision: Noted.**

**R4-2104804 Discussion on the reply LS on the CBW and channelization**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2104821 Discussion on system parameters for NR operation in 52.6GHz - 71GHz**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision: Noted.**

**R4-2106305 Discussion on minimum and maximum bandwidth for NR 52.6 to 71 GHz**

*Type: discussion For: Discussion  
 Source: LG Electronics Finland*

**Abstract:**

This contribution compares the status and open items in RAN1 and RAN4 discussions for minimum and maximum channel bandwidth and proposes a way forward and inputs to response LS to RAN1.

**Decision: Noted.**

**R4-2106466 On system parameters for NR 52.6 - 71 GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision: Noted.**

**R4-2106588 Discussion on system parameters for 52.6-71GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106691 52.6-71 GHz system parameters**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

As the WI starts for extending current NR operation to 71 GHz the fundamental system parameters are required to be studied and agreed within RAN4 as it is a dependency on BS or UE requirements. The focus on this contribution is discussion on raster, cha

**Decision: Noted.**

**R4-2107190 System parameters for a NR band in the range 52.6GHz – 71GHz**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2107286 on channel bandwidth for >52.6GHz Band**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

#### 8.12.4 UE RF requirements

**R4-2105211 Email discussion summary for [98-bis-e][138] NR\_ext\_to\_71GHz\_Part\_2**

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

**Discussion:**

**Decision: Revised to R4-2105475.**

**R4-2105475 Email discussion summary for [98-bis-e][138] NR\_ext\_to\_71GHz\_Part\_2**

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

**Discussion:**

**Decision: Return to.**

**R4-2105413 Way forward on 60GHz beam switching**

*Type: other For: Approval*

*Source: Apple*

**Discussion:**

**Decision: Return to.**

**R4-2105414 LS out on 60GHz beam switching**

*Type: LS out For: Approval*

*To RAN1*

*Source: Apple*

**Discussion:**

**Decision: Return to.**

**R4-2105415 Way forward on system simulations for 60 GHz**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

##### 8.12.4.1 TX requirements

**R4-2105090 On UE TX requirements for operations up to 71 GHz**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we consider the UE power capability, unwanted emissions and spectrum utilization for operations in 57-71 GHz.

**Decision: Noted.**

**R4-2106909 On open loop TPC and transient requirements for NR in the 52.6 - 71 GHz frequency range**

*Type: discussion For: Approval  
 Source: Apple*

**Decision: Noted.**

**R4-2107191 On UE Tx RF aspects for a NR band in the range 52.6GHz – 71GHz**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2107211 60 GHz UE TX EVM**

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

**Abstract:**

Measurements of transmitter EVM vs output power

**Decision: Noted.**

**R4-2107342 UE Tx requirements for NR extension to 71GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision: Noted.**

##### 8.12.4.2 RX requirements

**R4-2107192 On UE Rx RF aspects for a NR band in the range 52.6GHz – 71GHz**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2107343 UE Rx requirements for NR extension to 71GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision: Noted.**

#### 8.12.6 Others

**R4-2104806 Discussion on the co-exit simulation assumption**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2104439 Simulation results for NR coexistence study indoor deployment at 60GHz**

*Type: other For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

In this contribution we present preliminary simulation results for NR adjacent channel coexistence study at 60GHz for downlink and uplink transmissions.

**Decision: Revised to R4-2105172.**

**R4-2105172 Simulation results for NR coexistence study indoor deployment at 60GHz**

*Type: other For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

In this contribution we present preliminary simulation results for NR adjacent channel coexistence study at 60GHz for downlink and uplink transmissions.

**Decision: Noted.**

**R4-2104441 Simulation results for NR coexistence study: dense urban micro deployment at 60GHz**

*Type: other For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

In this contribution we present preliminary simulation results for NR adjacent channel coexistence study at 60GHz. This paper addresses dense urban micro deployment for both uplink (UL) and downlink (DL) cases.

**Decision: Revised to R4-2105173.**

**R4-2105173 Simulation results for NR coexistence study: dense urban micro deployment at 60GHz**

*Type: other For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

In this contribution we present preliminary simulation results for NR adjacent channel coexistence study at 60GHz. This paper addresses dense urban micro deployment for both uplink (UL) and downlink (DL) cases.

**Decision: Noted.**

**R4-2104588 On extension of FR2 or new Frequency Range (FR3) to introduce 52.6-71 GHz**

*Type: discussion For: Discussion  
 Source: Ericsson France S.A.S*

**Decision: Noted.**

**R4-2104595 Discussion on frequency range terminology for 52.6GHz ~ 71GHz**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision: Noted.**

**R4-2104803 Discussion on the frequency range of 52.6-71 GHz**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2104835 On frequency range definition between 52.6GHz and 71GHz**

*Type: discussion For: Agreement  
 Source: Apple*

**Decision: Noted.**

**R4-2105138 Reply LS to RAN1: LS on beam switching gap for 60 GHz band**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson*

**Abstract:**

Draft Reply LS to RAN1 regarding Beam Switching and Switching from DL to UL.

**Decision: Noted.**

**R4-2106294 on frequency range definition for NR 52\_71GHz**

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

**Decision: Noted.**

**R4-2106467 On frequency range definition on 52.6 - 71 GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision: Noted.**

**R4-2106591 Discussion on switching delay for 52.6-71GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106592 Discussion on frequency range definition for 52.6-71GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106666 On frequency range definition for 52.6 – 71 GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2107316 Discussion on frequency range definition for 52-71GHz**

*Type: discussion For: Discussion  
 38.101-2 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

With the support of NR in the frequency range of 52.6 to 71GHz, the question on whether a new frequency range should be introduced or the FR2 range extended should be decided in RAN4. Regardless of the choice some coexistence aspects should be handled and

**Decision: Noted.**

**R4-2107271 On beam switching for 60GHz Band**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

**R4-2104805 Discussion on the reply LS on beam switching gap**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2107210 60 GHz UE switching times**

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

**Abstract:**

Proposed reply LS for UE aspects of switching times

**Decision: Noted.**

### 8.15 Introduction of DL 1024QAM for NR FR1

#### 8.15.1 General and work plan

**R4-2105212 Email discussion summary for [98-bis-e][139] NR\_DL1024QAM\_FR1**

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

**Discussion:**

**Decision: Revised to R4-2105476.**

**R4-2105476 Email discussion summary for [98-bis-e][139] NR\_DL1024QAM\_FR1**

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

**Discussion:**

**Decision: Return to.**

**R4-2105416 Way forward on UE RF requirements for DL1024QAM**

*Type: other For: Approval*

*Source: Ericsson*

**Discussion:**

**Decision: Return to.**

**R4-2104726 Link level simulation results for 1024QAM for NR FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2104727 System level simulation results for 1024QAM for NR FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2106487 Scenarios for support of 1024QAM**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, CMCC, China Unicom*

**Decision: Noted.**

**R4-2106858 Work plan for DL 1024QAM for NR FR1**

*Type: discussion For: Approval  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution proposes the RAN4 work plan for DL 1024QAM for NR FR1

**Decision: Return to.**

#### 8.15.3 UE RX RF requirements

**R4-2104729 Discussion on UE RX RF requirements for 1024QAM for NR FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision: Noted.**

**R4-2106489 RX EVM for support of 1024QAM**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, CMCC, China Unicom*

**Decision: Noted.**

**R4-2106688 UE Requirement Overview and Impact for 1024 QAM**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution the affected RF (and demod) requirements for UE are described. Possible work split for impacted specifications also described.

**Decision: Noted.**

### 8.16 NR coverage enhancements

#### 8.16.1 Phase continuity and power consistency for PUSCH and PUCCH repetition

**R4-2105213 Email discussion summary for [98-bis-e][140] NR\_cov\_enh**

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

**Discussion:**

**Decision: Revised to R4-2105477.**

**R4-2105477 Email discussion summary for [98-bis-e][140] NR\_cov\_enh**

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

**Discussion:**

**Decision: Return to.**

**R4-2105417 Reply LS on PUCCH and PUSCH repetition**

*Type: LS out For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

**R4-2105418 Way forward on phase continuity and power consistency for PUCCH and PUSCH repetition**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

**R4-2104580 Discussion on phase continuity and power consistency for UL repetition**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision: Noted.**

**R4-2104955 On non-zero gap between adjacent transmissions for PUCCH and PUSCH repetition**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision: Noted.**

**R4-2106918 Discussion on phase continuity for PUSCH and PUCCH repetitions**

*Type: other For: Approval  
 Source: InterDigital Communications*

**Abstract:**

In this contribution we are proposing to study not only the phase continuity tolerance under normal conditions, but also a possible mitigation for phase continuity issue that would help the coherent reception and DMRS over both contiguous and non-contiguo

**Decision: Noted.**

**R4-2107273 on phase continuty for multiple transmissions**

*Type: other For: Approval  
 Source: HiSilicon Technologies Co. Ltd*

**Decision: Noted.**

**R4-2107284 Phase continuity over the gap in tx**

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

**Decision:** The document was **withdrawn**.

**R4-2107366 Phase continuity over the gap in tx**

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

**Decision: Noted.**

**R4-2104702 UE configuration for enhanced Joint Channel Estimation in TDD**

*Type: other For: Discussion  
 Source: Sony*

**Decision: Noted.**

## 9 Rel-17 Study Items for NR

### 9.2 Study on Efficient utilization of licensed spectrum that is not aligned with existing NR channel bandwidths

**R4-2105214 Email discussion summary for [98-bis-e][141] FS\_NR\_eff\_BW\_util**

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

**Discussion:**

**Decision: Revised to R4-2105478.**

**R4-2105478 Email discussion summary for [98-bis-e][141] FS\_NR\_eff\_BW\_util**

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

**Discussion:**

**Decision: Return to.**

**R4-2105419 Way forward on Evaluation of Irregular BW Approaches**

*Type: other For: Approval*

*Source: Ericsson*

**Discussion:**

**Decision: Return to.**

#### 9.2.1 General and work plan

**R4-2106690 TP to the TR 38.844: Terminology**

*Type: draftCR For: Endorsement  
 38.844 v0.0.2 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we provide an update to the TP to the TR 38.844. Based upon 2 WFs [1, 2] a focus of both agreed documents provided terminology to facilitate discussions on different approaches which have been discussed thus far. The intention of thi

**Decision: Revised to R4-2105420.**

**R4-2105420 TP to the TR 38.844: Terminology**

*Type: draftCR For: Endorsement  
 38.844 v0.0.2 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we provide an update to the TP to the TR 38.844. Based upon 2 WFs [1, 2] a focus of both agreed documents provided terminology to facilitate discussions on different approaches which have been discussed thus far. The intention of thi

**Decision: Return to.**

#### 9.2.2 Evaluation of use of larger channel bandwidths than operator licensed bandwidth

**R4-2104587 Further input on the blanking approach for irregular BWs**

*Type: discussion For: Approval  
 Source: Ericsson France S.A.S*

**Decision: Noted.**

**R4-2104600 Discussion on use of larger channel bandwidth**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision: Noted.**

**R4-2104886 Non-standard spectrum allocations for NR bands (larger channel)**

*Type: discussion For: Decision  
 Source: Apple*

**Decision: Noted.**

**R4-2106485 Consideration on use of larger channel bandwidth**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107253 Support of irregular channel bandwidth with larger or overlapped BW**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

this contribution discusses the different cases supporting irregular channel bandwidths with wider bandwidth or with overlapped bandwidth from a Network and UE prospective and provides an analysis of potential solutions and their related constraints. This

**Decision: Noted.**

**R4-2107328 TP for TR 38.844: 6 MHz for n85 with larger CHBW**

*Type: pCR For: Approval  
 38.844 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Noted.**

#### 9.2.3 Evaluation of use of overlapping UE channel bandwidths

**R4-2104599 Discussion on overlapping channel bandwidths**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision: Noted.**

**R4-2104707 Handling of Channel Bandwidths That Are Not Multiples of 5MHz**

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

**Decision: Noted.**

**R4-2104887 Non-standard spectrum allocations for NR bands (overlapping channel)**

*Type: discussion For: Decision  
 Source: Apple*

**Decision: Noted.**

**R4-2106486 Consideration for overlapping UE channel bandwidths**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2106689 Overlapping UE Channel Bandwidth Approach**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution the focus will be discussing overlapping bandwidth approaches. A companion paper [xx] will cover the aspects relating to using next larger channel bandwidth approach.

**Decision: Noted.**

**R4-2107040 On the use of overlapping channel bandwidths from UE perspective**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Noted.**

**R4-2107319 On SU for overlapping channel bandwidth**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision: Noted.**

**R4-2107329 TP for TR 38.844: 6 MHz for n85 with overlapping CHBW**

*Type: pCR For: Approval  
 38.844 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision: Noted.**

#### 9.2.4 Others

### 9.3 Study on extended 600MHz NR band

**R4-2105215 Email discussion summary for [98-bis-e][142] FS\_NR\_600MHz\_ext**

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

**Discussion:**

**Decision: Revised to R4-2105479.**

**R4-2105479 Email discussion summary for [98-bis-e][142] FS\_NR\_600MHz\_ext**

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

**Discussion:**

**Decision: Return to.**

**R4-2105421 Way forward on Coexistence with Other Services**

*Type: other For: Approval*

*Source: Ericsson*

**Discussion:**

**Decision: Return to.**

**R4-2105422 Way forward on Frequency arrangements for further study and corresponding UE filter configurations**

*Type: other For: Approval*

*Source: Qualcomm*

**Discussion:**

**Decision: Return to.**

**R4-2105423 Updated TR for extended 600MHz NR band**

*Type: draft TR For: Agreement*

*Source: Spark*

**Discussion:**

**Decision:** to be email approved

#### 9.3.1 General

#### 9.3.2 Regulatory study

#### 9.3.3 Coexistence study

**R4-2104717 Coexistence for APT 600 MHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

coexistence with band 28 and own DL band protection is discussed.

**Decision: Noted.**

**R4-2104931 Coexistence study for extended 600 MHz NR frequency band**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision: Noted.**

#### 9.3.4 Study on frequency arrangements (such as options B1 and B2)

**R4-2104495 Option B2 for Extended 600MHz NR band**

*Type: discussion For: Discussion  
 Source: Spark NZ Ltd*

**Abstract:**

This contribution provides two variants of option B2 to be discussed in the meeting

**Decision: Noted.**

**R4-2104718 Frequency arrangements for APT 600 MHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Option B2 shall be further studied.

**Decision: Noted.**

**R4-2104817 Discussion on Extended 600MHz Band Implementation Options**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

the feasibility of the different duplexers and their impact on performance are provided. Impact to n71 performance and extended 600MHz band are discussed including coexistence with surrounding bands.

**Decision: Noted.**

**R4-2104891 TP on band plan for 600 MHz**

*Type: other For: Approval  
 Source: Apple*

**Decision: Noted.**

**R4-2105094 Further discussion on frequency arrangement for extended 600MHz NR Band**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106593 Discussions on Option B1 and B2 for extended 600MHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106891 Extended 600MHz band - Band and duplexer arrangement**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution is proposing duplexer arrangement for the two proposed options

**Decision: Noted.**

**R4-2107301 Feasibility analysis of 600MHz duplexer**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107348 Filtering for extended 600 MHz band**

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

**Decision: Noted.**

#### 9.3.5 Others

### 9.4 Study on high power UE (power class 2) for one NR FDD band

**R4-2105216 Email discussion summary for [98-bis-e][143] FS\_NR\_PC2\_UE\_FDD**

*Type: other For: Information  
 Source: Moderator (China Unicom)*

**Discussion:**

**Decision: Revised to R4-2105480.**

**R4-2105480 Email discussion summary for [98-bis-e][143] FS\_NR\_PC2\_UE\_FDD**

*Type: other For: Information  
 Source: Moderator (China Unicom)*

**Discussion:**

**Decision: Return to.**

**R4-2105424 Way forward on PC2 for NR FDD band**

*Type: other For: Approval*

*Source: China Unicom*

**Discussion:**

**Decision: Return to.**

**R4-2105425 Way forward on initial agreements on system performance evaluation**

*Type: other For: Approval*

*Source: China Unicom*

**Discussion:**

**Decision: Return to.**

#### 9.4.1 General

**R4-2104540 Discussion on HPUE in NR FDD band**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2106550 Discussion on HP UE for FDD bands**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106912 TR skeleton for Study on high power UE (power class 2) for one NR FDD band**

*Type: discussion For: Approval  
 Source: China Unicom*

**Decision: Agreed.**

#### 9.4.2 Scheme(s) to comply with the SAR limits

**R4-2104509 Clarification on testing assumptions of FDD-PC2**

*Type: discussion For: Discussion  
 Source: SoftBank Corp.*

**Abstract:**

This paper is intended to request clarifications on a testing aspect of FDD-PC2 UEs.

**Decision: Noted.**

**R4-2106362 Discussion on HPUE FDD band**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2106560 R17 FDD HPUE**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision: Noted.**

#### 9.4.3 Interference issues

**R4-2104997 Receiver sensitivity degradation for PC2 UE in FDD band**

*Type: other For: Approval  
 Source: LG Electronics France*

**Abstract:**

sensitivity degradation levels are provided according to dorminant fartor for receiver sensitivity by PC2 UE in FDD band

**Decision: Noted.**

**R4-2107298 REFSENS analysis for FDD HPUE**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 9.4.4 UE implementation issues

**R4-2107299 On feasibility of RF component to support FDD HPUE**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107354 UE related considerations for PC2 FDD**

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

**Decision: Noted.**

#### 9.4.5 System performance evaluations

**R4-2104541 Initial evaulation results of PC2 UE for NR FDD**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2104922 System performance evaluation on FDD HPUE**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2107119 FDD PC2 system performance evaluations**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision: Noted.**

**R4-2107300 System performance evaluation of FDD HPUE**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

### 9.6 Study on band combination handling in RAN4

**R4-2105217 Email discussion summary for [98-bis-e][144] FS\_BC\_handling**

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

**Discussion:**

**Decision: Revised to R4-2105481.**

**R4-2105481 Email discussion summary for [98-bis-e][144] FS\_BC\_handling**

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

**Discussion:**

**Decision: Return to.**

**R4-2105426 Way forward on Handling of SDL related EN-DC combinations**

*Type: other For: Approval*

*Source: CHTTL*

**Discussion:**

**Decision: Return to.**

**R4-2105427 Way forward on Optimization to the tables of delta TIB and RIB**

*Type: other For: Approval*

*Source: ZTE*

**Discussion:**

**Decision: Return to.**

#### 9.6.1 General and TR

**R4-2104865 On band combination handling**

*Type: discussion For: Approval  
 Source: ZTE Corporation*

**Abstract:**

In this paper, we’d like to share our views on the SI and provide suggestions on the timetable for applying the simplification rules.

**Decision: Noted.**

**R4-2104874 TR skeleton 38.xxx v001 Band combination handling**

*Type: other For: Endorsement  
 Source: ZTE Corporation*

**Abstract:**

TR skeleton 38.xxx v001 Band combination handling

**Decision: Revised to R4-2105431.**

**R4-2105431 TR skeleton 38.xxx v001 Band combination handling**

*Type: other For: Endorsement  
 Source: ZTE Corporation*

**Abstract:**

TR skeleton 38.xxx v001 Band combination handling

**Decision: Return to.**

#### 9.6.2 How to introduce band combinations including TP format

**R4-2106683 Discussion on Band combination handling**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 9.6.3 Rules and guidelines of specifying band combinations including notations of CA/DC combinations

**R4-2104864 Further considerations on delta TIB and RIB simplification for band combinations**

*Type: discussion For: Approval  
 Source: ZTE Corporation*

**Abstract:**

In this paper, we’d like to share our views on the simplifications for reference sensitivity and maximum configured output power relaxation due to support for CA or DC configurations.

**Decision: Noted.**

**R4-2104892 TP on rules and guidelines for specifying band combinations**

*Type: other For: Approval  
 Source: Apple*

**Decision: Revised to R4-2105430.**

**R4-2105430 TP on rules and guidelines for specifying band combinations**

*Type: other For: Approval  
 Source: Apple*

**Decision: Return to.**

**R4-2107045 Discussion on guidelines for handling SDL related EN-DC combinations**

*Type: discussion For: Discussion  
 Source: CHTTL*

**Decision: Noted.**

#### 9.6.4 Improving RAN4 specification structures and reducing redundant contents

**R4-2104866 CR to TS 38.101-1 on optimization to channel bandwidth per operating band (Rel-16)**

*Type: CR For: Approval  
 38.101-1 v16.7.0 CR-0721 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.101-1 on optimization to channel bandwidth per operating band (Rel-16)

**Decision:** The document was **withdrawn**.

**R4-2104867 CR to TS 38.101-1 on optimization to channel bandwidth per operating band (Rel-17)**

*Type: CR For: Approval  
 38.101-1 v17.1.0 CR-0722 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.101-1 on optimization to channel bandwidth per operating band (Rel-17)

**Decision:** The document was **withdrawn**.

**R4-2104868 CR to TS 38.101-2 on optimization to channel bandwidth per operating band (Rel-16)**

*Type: CR For: Approval  
 38.101-2 v16.7.0 CR-0348 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.101-2 on optimization to channel bandwidth per operating band (Rel-16)

**Decision:** The document was **withdrawn**.

**R4-2104869 CR to TS 38.101-2 on optimization to channel bandwidth per operating band (Rel-17)**

*Type: CR For: Approval  
 38.101-2 v17.1.0 CR-0349 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.101-2 on optimization to channel bandwidth per operating band (Rel-17)

**Decision:** The document was **withdrawn**.

**R4-2104870 CR to TS 38.104 on optimization to BS channel bandwidths and SCS per operating band (Rel-16)**

*Type: CR For: Approval  
 38.104 v16.7.0 CR-0301 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.104 on optimization to BS channel bandwidths and SCS per operating band (Rel-16)

**Decision:** The document was **withdrawn**.

**R4-2104871 CR to TS 38.104 on optimization to BS channel bandwidths and SCS per operating band (Rel-17)**

*Type: CR For: Approval  
 38.104 v17.1.0 CR-0302 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

CR to TS 38.104 on optimization to BS channel bandwidths and SCS per operating band (Rel-17)

**Decision:** The document was **withdrawn**.

**R4-2104875 draft CR to TS 38.101-1 on optimization to channel bandwidth per operating band (Rel-16)**

*Type: CR For: Approval  
 38.101-1 v16.7.0 CR-0723 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

draft CR to TS 38.101-1 on optimization to channel bandwidth per operating band (Rel-16)

**Decision: Return to.**

**R4-2104876 draft CR to TS 38.101-2 on optimization to channel bandwidth per operating band (Rel-16)**

*Type: CR For: Approval  
 38.101-2 v16.7.0 CR-0350 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

draft CR to TS 38.101-2 on optimization to channel bandwidth per operating band (Rel-16)

**Decision: Return to.**

**R4-2104877 draft CR to TS 38.104 on optimization to BS channel bandwidths and SCS per operating band (Rel-16)**

*Type: CR For: Approval  
 38.104 v16.7.0 CR-0303 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

draft CR to TS 38.104 on optimization to BS channel bandwidths and SCS per operating band (Rel-16)

**Decision: Return to.**

#### 9.6.5 Others

## 10 Rel-17 Work Items for LTE

### 10.1 LTE inter-band Carrier Aggregation for 2 bands DL with 1 band UL

**R4-2105218 Email discussion summary for [98-bis-e][145] LTE\_Baskets**

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

**Discussion:**

**Decision: Noted.**

#### 10.1.1 Rapporteur Input (WID/TR/CR)

**R4-2107114 Revised WID: Rel17 LTE inter-band CA for 2 bands DL with 1 band UL**

*Type: WID revised For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision: Withdrawn.**

**R4-2107115 TR 36.717-02-01 Rel-17 LTE inter-band CA for 2 bands DL and 1 band UL CA**

*Type: draft TR For: (not specified)  
 36.717-02-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision: Withdrawn.**

#### 10.1.2 UE RF with harmonic, close proximity and isolation issues

#### 10.1.3 UE RF without specific issues

### 10.2 LTE inter-band Carrier Aggregation for 3 bands DL with 1 band UL

#### 10.2.1 Rapporteur Input (WID/TR/CR)

#### 10.2.2 UE RF with harmonic, close proximity and isolation issues

#### 10.2.3 UE RF without specific issues

### 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)

**R4-2107036 TR 36.717-04-01 v0.4.0**

*Type: draft TR For: Approval  
 36.717-04-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Agreed.**

#### 10.3.2 UE RF with 4 LTE bands CA

#### 10.3.3 UE RF with 5 LTE bands CA

### 10.4 LTE inter-band Carrier Aggregation for 2 bands DL with 2 band UL

#### 10.4.1 Rapporteur Input (WID/TR/CR)

#### 10.4.2 UE RF with harmonic, close proximity and isolation issues

**R4-2104647 TP for TR 36.717-02-02 to add UL configuration CA\_8A-20A for CA\_8A-20A**

*Type: pCR For: Approval  
 36.717-02-02 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

**R4-2104649 TP for TR 36.717-02-02 to add UL configuration CA\_8A-28A for CA\_8A-28A**

*Type: pCR For: Approval  
 36.717-02-02 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Revised to R4-2105226.**

**R4-2105226 TP for TR 36.717-02-02 to add UL configuration CA\_8A-28A for CA\_8A-28A**

*Type: pCR For: Approval  
 36.717-02-02 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Decision: Approved.**

#### 10.4.3 UE RF without specific issues

### 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)

**R4-2104962 TR 36.717-03-02 v0.3.0 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: Endorsement  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

update TR to capture approved TPs in RAN4 #98BIS-e meeting

**Decision:** To be email approved

**R4-2104964 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 France*

**Abstract:**

Provide revised WID to update status each CA band combos and add new LTE-A CA band combos in this meeting

**Decision: Withdrawn.**

#### 10.5.2 UE RF with MSD

**R4-2105157 TP for TR 36.717-03-02: to add UL configuration CA\_1A-8A for CA\_1A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105162 TP for TR 36.717-03-02: to add UL configuration CA\_3A-8A for CA\_3A-8A-20A and CA\_3C-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Revised to R4-2105231.**

**R4-2105231 TP for TR 36.717-03-02: to add UL configuration CA\_3A-8A for CA\_3A-8A-20A and CA\_3C-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

#### 10.5.3 UE RF without MSD

**R4-2104963 TP on summary of self-interference analysis for new x bands (x=3,4,5) DL with 2 bands UL CA**

*Type: pCR For: Approval  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

Add coexistence analysis results for new LTE-A CA band combos

**Decision: Approved.**

**R4-2105144 Draft CR to 36.101 to add UL configuration CA\_1A-3A for CA\_1A-3C-20A**

*Type: draftCR For: Endorsement  
 36.101 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Endorsed.**

**R4-2105145 Draft CR to 36.101 to add UL configuration CA\_1A-3A,CA\_1A-8A and CA\_3A-8A for CA\_1A-3C-8A-20A**

*Type: draftCR For: Endorsement  
 36.101 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision:** The document was **withdrawn**.

**R4-2105146 Draft CR to 36.101 to add UL configuration CA\_1A-8A and CA\_3A-8A for CA\_1A-3C-7A-8A**

*Type: draftCR For: Endorsement  
 36.101 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Endorsed.**

**R4-2105147 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-20A-38A and CA\_1A-3C-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105148 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-7A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105149 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-7A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Revised to R4-2105227.**

**R4-2105227 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-7A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105150 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-8A-20A and CA\_1A-3C-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Revised to R4-2105228.**

**R4-2105228 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-8A-20A and CA\_1A-3C-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105151 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Revised to R4-2105229.**

**R4-2105229 TP for TR 36.717-03-02: to add UL configuration CA\_1A-3A for CA\_1A-3A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105152 TP for TR 36.717-03-02: to add UL configuration CA\_1A-8A for CA\_1A-3A-7A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Noted.**

**R4-2105153 TP for TR 36.717-03-02: to add UL configuration CA\_1A-8A for CA\_1A-3A-8A-20A and CA\_1A-3C-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Noted.**

**R4-2105154 TP for TR 36.717-03-02: to add UL configuration CA\_1A-8A for CA\_1A-3A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Noted.**

**R4-2105155 TP for TR 36.717-03-02: to add UL configuration CA\_1A-8A for CA\_1A-7A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105156 TP for TR 36.717-03-02: to add UL configuration CA\_1A-8A for CA\_1A-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Revised to R4-2105230.**

**R4-2105230 TP for TR 36.717-03-02: to add UL configuration CA\_1A-8A for CA\_1A-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105158 TP for TR 36.717-03-02: to add UL configuration CA\_3A-8A for CA\_1A-3A-7A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Noted.**

**R4-2105159 TP for TR 36.717-03-02: to add UL configuration CA\_3A-8A for CA\_1A-3A-8A-20A and CA\_1A-3C-8A-20A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Noted.**

**R4-2105160 TP for TR 36.717-03-02: to add UL configuration CA\_3A-8A for CA\_1A-3A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Noted.**

**R4-2105161 TP for TR 36.717-03-02: to add UL configuration CA\_3A-8A for CA\_3A-7A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105163 TP for TR 36.717-03-02: to add UL configuration CA\_3A-8A for CA\_3A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Approved.**

**R4-2105971 Draft CR to 36.101 to add UL configuration CA\_1A-8A and CA\_3A-8A for CA\_1A-3C-8A-38A**

*Type: draftCR For: Endorsement  
 36.101 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

DT's new band combination

**Decision: Endorsed.**

**R4-2106375 TP for TR 36.717-03-02\_CA\_1A-3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2105232 TP for TR 36.717-03-02\_CA\_1A-3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Withdrawn.**

**R4-2106376 TP for TR 36.717-03-02\_CA\_1A-3A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Approved.**

**R4-2105233 TP for TR 36.717-03-02\_CA\_1A-3A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Withdrawn.**

**R4-2106377 TP for TR 36.717-03-02\_CA\_3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Noted.**

**R4-2105234 TP for TR 36.717-03-02\_CA\_3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Withdrawn.**

### 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

**R4-2105219 Email discussion summary for [98-bis-e][146] LTE\_bands\_R17\_M1\_M2\_NB1\_NB2**

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

**Discussion:**

**Decision: Noted.**

#### 10.7.1 Rapporteur Input (WID/TR/CR)

#### 10.7.2 RF

**R4-2107247 On B24 A-MPR for CAT-M1/M2**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

in this paper, we present our view on A-MPR for the LTE Cat-M1/M2 device

**Decision: Noted.**

#### 10.7.3 Others

### 10.8 Modification of LTE Band 24 specifications to comply with updated regulatory emission limits

#### 10.8.1 General and rapporteur input

#### 10.8.2 UE RF

#### 10.8.3 BS RF

#### 10.8.4 RRM and others

### 10.9 Additional enhancements for NB-IoT and LTE-MTC

**R4-2105220 Email discussion summary for [98-bis-e][147] NB\_IOTenh4\_LTE\_eMTC6**

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

**Discussion:**

**Decision: Revised to R4-2105482.**

**R4-2105482 Email discussion summary for [98-bis-e][147] NB\_IOTenh4\_LTE\_eMTC6**

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

**Discussion:**

**Decision: Return to.**

**R4-2105432 Way forward on BS RF requirements for R17 NB-IoT 16QAM**

*Type: other For: Approval*

*Source: Huawei, HiSilicon*

**Discussion:**

**Decision: Return to.**

**R4-2105433 Way forward on UE RF requirements for R17 NB-IoT 16QAM**

*Type: other For: Approval*

*Source: Nokia*

**Discussion:**

**Decision: Return to.**

#### 10.9.1 General and work plan

**R4-2107255 Work plan of Rel-17 enhancements for NB-IoT and LTE-MTC**

*Type: Work Plan For: Approval  
 Source: Huawei, HiSilicon, Ericsson*

**Decision: Approved.**

#### 10.9.2 Support of 16QAM in NB-IoT

##### 10.9.2.1 BS RF requirements

**R4-2104458 Proposals on BS RF requirements for support of 16QAM in NB-IoT**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides proposals on BS RF requirements for support 16-QAM in NB-IoT unicast in UL and DL according to the agreements in RAN1.

**Decision: Noted.**

**R4-2107245 BS RF impact analysis on R17 NB\_IoT**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the BS RF impact on NB-IoT for this objective.

**Decision: Noted.**

##### 10.9.2.2 UE RF requirements

**R4-2104651 MPR for NB-IoT 16-QAM**

*Type: discussion For: Discussion  
 Source: Nokia Corporation*

**Decision: Noted.**

**R4-2107246 UE RF impact analysis on R17 NB\_IoT**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the UE RF impact on NB-IoT for this objective.

**Decision: Noted.**

**R4-2107258 MPR Simulation Assumptions for 16QAM NB-IoT Uplink**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

#### 10.9.3 Support of power reduction for PRACH, PUCCH, and full-PRB PUSCH in MTC

##### 10.9.3.1 UE RF requirements

**R4-2107244 RF impact analysis on Rel-17 eMTC WID**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the RF impact for the Rel-17 eMTC.

**Decision: Noted.**

#### 10.9.4 Others

## 11 Rel-17 Study Items for LTE

### 11.1 High-power UE operation for fixed-wireless/vehicle-mounted use cases in LTE bands 5 and 12 and NR band n71

**R4-2105221 Email discussion summary for [98-bis-e][148] FS\_LTE\_NR\_HPUE\_FWVM**

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

**Discussion:**

**Decision: Revised to R4-2105483.**

**R4-2105483 Email discussion summary for [98-bis-e][148] FS\_LTE\_NR\_HPUE\_FWVM**

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

**Discussion:**

**Decision: Return to.**

#### 11.1.1 General

**R4-2104459 TR 37.880 V1.0.0: High-power UE operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, and Band n71**

*Type: draft TR For: Information  
 37.880 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

TR submitted to RAN#91-e for information

**Decision: Postponed.**

#### 11.1.2 Coexistence study

**R4-2104460 TP to TR 37.880: Coexistence Simulation Results for High-power UE Vs NB-IoT in-band operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, and Band n71**

*Type: pCR For: Approval  
 37.880 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides the coexistence simulation results for this scenario according to the agreed assumptions and a text proposal for approval to record the simulation results and observations into TR 37.880.

**Decision: Revised to R4-2105434.**

**R4-2105434 TP to TR 37.880: Coexistence Simulation Results for High-power UE Vs NB-IoT in-band operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, and Band n71**

*Type: pCR For: Approval  
 37.880 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides the coexistence simulation results for this scenario according to the agreed assumptions and a text proposal for approval to record the simulation results and observations into TR 37.880.

**Decision: Return to.**

#### 11.1.3 UE RF

**R4-2104461 TP to TR 37.880: BS receiver blocking for High-power UE operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, and Band n71**

*Type: pCR For: Approval  
 37.880 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides a text proposal for approval to complete the corresponding clause in TR 37.880.

**Decision: Approved.**

## 12 Liaison and output to other groups

**R4-2104705 Draft LS reply on simultaneous Rx/Tx capability**

*Type: LS out For: Approval  
 to RAN2, cc RAN3  
 Source: Qualcomm Incorporated*

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

### 12.1 R17 related

**R4-2105222 Email discussion summary for [98-bis-e][149] NR\_reply\_LS\_Part\_1**

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

**Discussion:**

**Decision: Revised to R4-2105484.**

**R4-2105484 Email discussion summary for [98-bis-e][149] NR\_reply\_LS\_Part\_1**

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

**Discussion:**

**Decision: Return to.**

**R4-2105435 Way forward on transition time for Type A HD-FDD UE**

*Type: other For: Approval*

*Source: Ericsson*

**Discussion:**

**Decision: Return to.**

**R4-2104542 Discussion and reply LS on Half-duplex FDD switching time for RedCap UE**

*Type: discussion For: Approval  
 Source: vivo*

**Decision: Noted.**

**R4-2106671 Discussion and draft Reply LS on Half-duplex FDD switching time for RedCap UE**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision: Noted.**

**R4-2107186 Discussion on HD-FDD switching times for RedCap UE**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on incoming LS from RAN1 and draft reply LS

**Decision: Noted.**

**R4-2107248 Reply LS to Half-duplex FDD switching for RedCap UE**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson*

**Abstract:**

In this paper, the questions in by RAN1 is discussed and proposal of LS is followed

**Decision: Noted.**

**R4-2107340 Type-A Half-duplex FDD switching time for RedCap UE**

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

**Abstract:**

Reply to the LS on half duplex FDD switching time for RedCap UE

**Decision: Noted.**

**R4-2105223 Email discussion summary for [98-bis-e][150] NR\_reply\_LS\_Part\_2**

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

**Discussion:**

**Decision: Revised to R4-2105485.**

**R4-2105485 Email discussion summary for [98-bis-e][150] NR\_reply\_LS\_Part\_2**

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

**Discussion:**

**Decision: Return to.**

**R4-2105436 Second reply LS on Beam switching gaps for Multi-TRP UL transmission**

*Type: LS out For: Approval*

*To: RAN 1*

*Source: Nokia*

**Discussion:**

**Decision: Return to.**

**R4-2104563 Beam switching gaps for Multi-TRP UL transmission**

*Type: other For: Approval  
 Source: Nokia Japan*

**Abstract:**

This contribution addresses to the remaining issues for beam switching gaps.

**Decision: Noted.**

**R4-2105224 Email discussion summary for [98-bis-e][151] NR\_reply\_LS\_Part\_3**

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

**Discussion:**

**Decision: Revised to R4-2105486.**

**R4-2105486 Email discussion summary for [98-bis-e][151] NR\_reply\_LS\_Part\_3**

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

**Discussion:**

**Decision: Return to.**

**R4-2105437 Reply LS On minimum requirements for Transmit ON/OFF time mask in UL MIMO FR1**

*Type: LS out For: Approval*

*To: RAN5*

*Source: vivo*

**Discussion:**

**Decision: Return to.**

**R4-2105438 Way forward on exception requirements for Intermodulation due to Dual uplink (IMD)**

*Type: other For: Approval*

*Source: Xiaomi*

**Discussion:**

**Decision: Return to.**

**R4-2104520 Discussion and reply LS on Clarification on exception requirements for Intermodulation due to Dual uplink (IMD)**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision: Noted.**

**R4-2104543 Discussion and reply LS On minimum requirements for Transmit ON/OFF time mask in UL MIMO FR1**

*Type: discussion For: Approval  
 Source: vivo*

**Decision: Noted.**

**R4-2106551 Discussion on reply LS on Clarification on exception requirements for Intermodulation due to Dual uplink (IMD)**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision: Noted.**

**R4-2106776 draft LS reply to R5-211609 about IMD exceptions**

*Type: LS out For: Endorsement  
 to TSG RAN WG5  
 Source: Ericsson*

**Abstract:**

draft LS reply to R5-211609 about IMD exceptions

**Decision: Noted.**

**R4-2104703 Discussion on LS on questions to RAN WGs on dual Radio UE (2Rx/2Tx or 2Rx/1Tx) support for simultaneous communication with both SNPN and PLMN**

*Type: other For: Approval  
 Source: Sony*

**Decision: Noted.**

**R4-2105332 LS on questions to RAN WGs on dual Radio UE (2Rx/2Tx or 2Rx/1Tx) support for simultaneous communication with both SNPN and PLMN**

*Type: LS out For: Approval*

*Source:Sony*

**Discussion:**

**Decision: Return to.**

### 12.2 Others

**R4-2104402 RAN2 LS on addition of 400 and 600 MHz Fs**

*Type: LS out For: Approval  
 to RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision: Approved.**

**R4-2104894 Discussion and draft reply LS on simultaneous Rx/Tx capability**

*Type: discussion For: Decision  
 Source: Apple*

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

**R4-2106552 Discussion on Frequency Bands for testing of A-GNSS Sensitivity requirements in NR and LTE**

*Type: discussion For: Approval  
 Source: Xiaomi*

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

## 13 Revision of the Work Plan

### 13.1 R17 new proposals

#### 13.1.1 Spectrum related

**R4-2104484 Co-existence challenges with NR-U 100MHz channel bandwidth and other technologies**

*Type: Work Plan For: Approval  
 Source: Charter Communications, Inc*

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

**R4-2104494 NR-U Punctured Channel SEM for 100 MHz Bandwidth**

*Type: discussion For: Approval  
 Source: CableLabs*

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

**R4-2104884 Supporting the 6GHz band in other countries/regions**

*Type: discussion For: Information  
 Source: Apple*

**Abstract:**

For information only. The paper outlines other countries/regions where 6GHz band was opened by local regulators and asks for the RAN guidance how to proceed.

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

**R4-2105021 Motivation for new WI on air-to-ground network for NR**

*Type: WID new For: Information  
 Source: CMCC*

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

**R4-2105022 New WID on air-to-ground network for NR**

*Type: WID new For: Information  
 Source: CMCC*

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

#### 13.1.2 Non-spectrum related

### 13.2 Others

## 14 Any other business

**R4-2105225 Email discussion summary for [98-bis-e][152] US\_n77**

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

**Discussion:**

**Decision: Revised to R4-2105487.**

**R4-2105487 Email discussion summary for [98-bis-e][152] US\_n77**

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

**Discussion:**

**Decision: Return to.**

**R4-2105439 Way forward on Enabling US 3.45 – 3.55GHz in Band n77**

*Type: other For: Approval*

*Source: Apple*

**Discussion:**

**Decision: Return to.**

**R4-2104496 Draft CR to TS 38.104: Additional of FCC emission limits on US 3.45-3.55 GHz band**

*Type: draftCR For: Endorsement  
 38.104 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Specify the FCC emission limits in US 3.45-3.55 GHz band as additional regional operating band unwanted emissions requirements for Band n77.

**Decision: Not pursued.**

**R4-2104497 Draft CR to TS 38.104: Additional of FCC emission limits on US 3.45-3.55 GHz band**

*Type: draftCR For: Endorsement  
 38.141-1 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Specify the FCC emission limits in US 3.45-3.55 GHz band as additional regional operating band unwanted emissions requirements for Band n77.

**Decision: Not pursued.**

**R4-2107109 Band n77 usage in the US for 3.45 to 3.55 GHz**

*Type: discussion For: Approval  
 Source: Apple*

**Decision: Noted.**

**R4-2107349 Enabling US 3.45 – 3.55 GHz with Band n77**

*Type: discussion For: Approval  
 Source: Qualcomm Incorporated, AT&T*

**Decision: Noted.**

**R4-2107350 Addition of new spectrum in Band n77 for US**

*Type: draftCR For: Endorsement  
 38.101-1 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, AT&T, Nokia*

**Decision: Not pursued.**

**R4-2107330 NB-IoT Testing**

*Type: discussion For: Information  
 Source: T-Mobile USA, Qualcomm*

**Decision: Noted.**

## 15 Close of the E-meeting

## BACKUP

**R4-21AAAAA Way forward on XXXX**

*Type: other For: Approval*

*Source:*

**Discussion:**

**Decision: Return to.**