**3GPP TSG-RAN WG4 Meeting #101e R4-21xxxxx**

**Online Meeting, 01 November – 12 November 2021**

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

**DRAFT Meeting Report  
for  
TSG RAN WG4  
meeting: 100-e**

**Electronic Meeting, Online, 16/08/2021 to 27/08/2021**

Report generated on Friday, 2021-08-13 12:08 UTC

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## 1 Opening of the E-meeting

The Chairman Xizeng Dai (Huawei) opened the meeting on RAN4 reflector on 16/08/2021.

Intellectual Property Rights Declaration Policy

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

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

- to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

- to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms.

Statement regarding competition law

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

Meeting arrangements

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

It have been requested that the following statement is read at the beginning of RAN4#100-e meeting:

“The FCC’s quiet period for Auction 110 (the 3.45 GHz spectrum) is currently in effect. Accordingly, no discussions or questions relating to the auction, bids, bidding strategy, or post-auction market structure will be invited or permitted today or at any time until the quiet period has ended.”

## 2 Approval of the agenda

[**R4-2111700**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111700.zip) **RAN4#99-e Meeting Report**

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

**Decision: Approved.**

[**R4-2111701**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111701.zip) **Agenda for RAN4#100-e**

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

**Decision: Approved.**

[**R4-2111702**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111702.zip) **RAN4#100-e E-Meeting Arrangements and Guidelines**

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

**Decision: Approved.**

[**R4-2114691**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114691.zip) **RAN4 Meeting Efficiency Improvements**

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

**Decision: Approved.**

## 3 Election for RAN4 vice chairs

**RAN4 Vice Chair candidates:**

|  |  |
| --- | --- |
| **Name** | **Company / Partner** |
| [Mr. Andrey Chervyakov](https://www.3gpp.org/ftp/webExtensions/elections/RAN/RAN4/Election_August_2021/RAN4_CHERVYAKOV_VC.pdf) | Intel / ATIS |
| [Mr. Haijie Qiu](https://www.3gpp.org/ftp/webExtensions/elections/RAN/RAN4/Election_August_2021/RAN4_QIU_VC.pdf) | Samsung Electronics Co., Ltd / TTA |

No ballot for RAN4 vice chairs election was carried out.

Haijie Qiu and Andrey Chervyakov were re-elected as RAN4 Vice Chairs for the second term with applause at RAN4#100-e meeting.

**1st RAN4 Vice Chair position:**

- Mr. Haijie Qiu, Samsung Electronics Co., Ltd / TTA

**2nd RAN4 Vice Chair position:**

- Mr. Andrey Chervyakov, Intel / ATIS

## 4 Letters / reports from other groups / meetings

[R4-2111703](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111703.zip) LS on 5 GHz channel access mechanism ETSI TC BRAN

[R4-2111704](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111704.zip) Reply LS on fallback applicability for FeatureSetDownLinkPerCC capability fields RAN1

[R4-2111705](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111705.zip) LS on PRS processing samples RAN1

[R4-2111706](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111706.zip) LS on joint channel estimation for PUSCH and PUCCH RAN1

[R4-2111707](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111707.zip) Reply LS on RSS based RSRQ for LTE-MTC RAN1

[R4-2111708](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111708.zip) LS on how to introduce the 52.6-71GHz frequency range RAN1

[R4-2111709](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111709.zip) LS on Beam correspondence with Small Data Transmission in Inactive State RAN1

[R4-2111710](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111710.zip) LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#105-e RAN1

[R4-2111711](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111711.zip) Reply LS on RACH procedure for HO with PSCell RAN2

[R4-2111712](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111712.zip) LS to RAN4 on power class and P-max for IAB-MT cell selection RAN2

[R4-2111713](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111713.zip) LS Reply on TCI State Update for L1/L2-Centric Inter-Cell Mobility RAN2

[R4-2111714](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111714.zip) Reply LS to RAN1 LS on TCI State Update for L1/L2-Centric Inter-Cell Mobility RAN3

[R4-2111715](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111715.zip) LS on Inter-donor migration RAN3

[R4-2111716](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111716.zip) LS on FR2 Extreme temperature conditions clarifications RAN5

[R4-2111717](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111717.zip) LS on FR2 relative power tolerance RAN5

[R4-2111718](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111718.zip) Liaison Statement on CCSA progress on UE EMC CCSA TC9 WG1

[R4-2111719](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111719.zip) New blocking requirement for Band 1 BSs for protection from RMR in 1900-1910 ETSI MSG TFES

[R4-2111720](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111720.zip) LS to 3GPP on the editorial issues of 5G-NR UE specifications in TSG RAN5 & TSG RAN4 ETSI MSG TFES

[**R4-2111703**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111703.zip) **LS on 5 GHz channel access mechanism (ETSI TC BRAN)**

*Type: LS in For: Information  
 Original outgoing LS: BRAN(21)110048r2, to IEEE 802.11 WG, RAN, RAN1, RAN4, GSMA, cc -***Decision: Noted.**

[**R4-2111704**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111704.zip) **Reply LS on fallback applicability for FeatureSetDownLinkPerCC capability fields (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2106133, to RAN2, cc RAN4***Decision: Noted.**

[**R4-2111705**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111705.zip) **LS on PRS processing samples (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R102106185, to RAN4, cc -***Decision: Noted.**

[**R4-2111706**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111706.zip) **LS on joint channel estimation for PUSCH and PUCCH (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2106212, to RAN4, cc -***Decision: Noted.**

[**R4-2111707**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111707.zip) **Reply LS on RSS based RSRQ for LTE-MTC (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2106215, to RAN4, cc RAN2***Decision: Noted.**

[**R4-2111708**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111708.zip) **LS on how to introduce the 52.6-71GHz frequency range (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: -, to RAN, cc RAN2, RAN4***Decision: Noted.**

[**R4-2111709**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111709.zip) **LS on Beam correspondence with Small Data Transmission in Inactive State (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2106309, to RAN4, cc -***Decision: Noted.**

[**R4-2111710**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111710.zip) **LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#105-e (RAN1)**

*Type: LS in For: Information  
 Original outgoing LS: R1-2106345, to RAN2, RAN4, cc -***Decision: Noted.**

[**R4-2111711**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111711.zip) **Reply LS on RACH procedure for HO with PSCell (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2106674, to RAN4, cc RAN3***Decision: Noted.**

[**R4-2111712**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111712.zip) **LS to RAN4 on power class and P-max for IAB-MT cell selection (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2106726, to RAN4, cc -***Decision: Noted.**

[**R4-2111713**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111713.zip) **LS Reply on TCI State Update for L1/L2-Centric Inter-Cell Mobility (RAN2)**

*Type: LS in For: Information  
 Original outgoing LS: R2-2106787, to RAN1, cc RAN, RAN2, RAN4***Decision: Noted.**

[**R4-2111714**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111714.zip) **Reply LS to RAN1 LS on TCI State Update for L1/L2-Centric Inter-Cell Mobility (RAN3)**

*Type: LS in For: Information  
 Original outgoing LS: R3-212879, to RAN1, RAN2, RAN4, cc RAN***Decision: Noted.**

[**R4-2111715**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111715.zip) **LS on Inter-donor migration (RAN3)**

*Type: LS in For: Information  
 Original outgoing LS: R3-212981, to RAN1, RAN2, RAN4, cc -***Decision: Noted.**

[**R4-2111716**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111716.zip) **LS on FR2 Extreme temperature conditions clarifications (RAN5)**

*Type: LS in For: Information  
 Original outgoing LS: R5-213821, to RAN4, cc -***Decision: Noted.**

[**R4-2111717**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111717.zip) **LS on FR2 relative power tolerance (RAN5)**

*Type: LS in For: Information  
 Original outgoing LS: R5-214106, to RAN4, cc -***Decision: Noted.**

[**R4-2111718**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111718.zip) **Liaison Statement on CCSA progress on UE EMC (CCSA TC9 WG1)**

*Type: LS in For: Information  
 Original outgoing LS: TC9WG157\_019, to RAN4, cc -***Decision: Noted.**

[**R4-2111719**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111719.zip) **New blocking requirement for Band 1 BSs for protection from RMR in 1900-1910 (ETSI MSG TFES)**

*Type: LS in For: Information  
 Original outgoing LS: TFES(21)000058r1, to RAN4, cc ETSI TC RT***Decision: Noted.**

[**R4-2111720**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111720.zip) **LS to 3GPP on the editorial issues of 5G-NR UE specifications in TSG RAN WG5 & TSG RAN WG4 (ETSI MSG TFES)**

Type: LS in For: Information  
 Original outgoing LS: TFES(21)069022r1, to RAN, RAN4, RAN5, cc TC ERM

**Decision: Noted.**

## 5 Rel-15 and previous release maintenance

### 5.1 Rel-15 New radio access technology

#### 5.1.1 System Parameters Maintenance

#### 5.1.2 UE RF requirements maintenance

**Email discussion summary of [100-e][101] NR\_Maintenance\_R15\_Part\_1, AI 5.1.2, AI 5.1.2.1 – Aijun Cao**

[**R4-2114701**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114701.zip) **Email discussion summary for [100-e][101] NR\_Maintenance\_R15\_Part\_1**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

##### 5.1.2.1 [FR1] Maintenance for 38.101-1

[**R4-2112589**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112589.zip) **Views on** [**R4-2109437**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2109437.zip)**- 2UL CA/DC additional requirements**

*Type: other For: Approval  
 Source: SoftBank Corp.*

**Abstract:**

Further views of a contribution last time [R4-2109437](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2109437.zip)) are shown.

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

[**R4-2111723**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111723.zip) **Generalization of band edge relaxation for UL band configurations**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2111724**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111724.zip) **Generalization of band edge relaxation for UL band configurations**

*Type: CR For: Agreement  
 38.101-1 v15.14.0 CR-0876 rev Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2111725**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111725.zip) **Generalization of band edge relaxation for UL band configurations**

*Type: CR For: Agreement  
 38.101-1 v16.8.0 CR-0877 rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2111726**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111726.zip) **Generalization of band edge relaxation for UL band configurations**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0878 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2111736**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111736.zip) **CR CatF n74 NS\_39 Coexistence**

*Type: CR For: Agreement  
 38.101-1 v15.14.0 CR-0881 rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2111737**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111737.zip) **CR CatA n74 NS\_39 Coexistence**

*Type: CR For: Agreement  
 38.101-1 v16.8.0 CR-0882 rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2111738**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111738.zip) **CR CatA n74 NS\_39 Coexistence**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0883 rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2111739**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111739.zip) **n74 NS\_39 Coexistence Issue**

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

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

[**R4-2111762**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111762.zip) **Generalization of band edge relaxation for UL band configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2111763**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111763.zip) **Generalization of band edge relaxation for UL band configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This CR for Rel-16 is a kind of a Category A CR of [R4-2111762](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111762.zip) for Rel-15, but some details are different between them so that this CR is submitted as Category F CR in this AI.

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

[**R4-2111764**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111764.zip) **Generalization of band edge relaxation for UL band configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This CR for Rel-17 is a kind of a Category A CR of [R4-2111762](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111762.zip) for Rel-15, but some details are different between them so that this CR is submitted as Category F CR in this AI.

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

[**R4-2111767**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111767.zip) **Clarification on delta\_TRxSRS to Configured transmitted power**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2111906**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111906.zip) **dCR to 38.101-1: UL MIMO requirements update**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated, Lenovo, Motorola Mobility*

**Abstract:**

Make 2L EVM requirement consistent with RAN1 design and TxDiv

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

[**R4-2111907**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111907.zip) **dCR to 38.101-1: UL MIMO requirements update**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated, Lenovo, Motorola Mobility*

**Abstract:**

Make 2L EVM requirement consistent with RAN1 design and TxDiv

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

[**R4-2111908**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111908.zip) **dCR to 38.101-1: UL MIMO requirements update**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated, Lenovo, Motorola Mobility*

**Abstract:**

Make 2L EVM requirement consistent with RAN1 design and TxDiv

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

[**R4-2111909**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111909.zip) **On the FR1 UE's EVM requirement for 2L UL**

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

**Abstract:**

the ‘per connector’ EVM specification for 2L UL curtails the same design freedom that enable Tx diversity, and therefore not consistent

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

[**R4-2112220**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112220.zip) **Evaluation of FR1 UL MIMO EVM measurement method**

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

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

[**R4-2112253**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112253.zip) **FR1 UL MIMO EVM**

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

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

[**R4-2112329**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112329.zip) **Draft CR on TS 38.101-1 on Asymmetric channel bandwidth**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: ZTE Wistron Telecom AB*

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

[**R4-2112330**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112330.zip) **Draft CR on TS 38.101-1 on Asymmetric channel bandwidth**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: ZTE Wistron Telecom AB*

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

[**R4-2112331**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112331.zip) **Draft CR on TS 38.101-1 on Asymmetric channel bandwidth**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

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

[**R4-2112351**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112351.zip) **On additional emission requirement issues for CA/DC**

*Type: discussion For: Decision  
 Source: Apple*

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

[**R4-2112518**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112518.zip) **Clarifications on additional UE co-ex requirements for 2 Band UL CA/DC for Japan(R15)**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: SoftBank Corp.*

**Abstract:**

Applicability of additional UE co-ex requirements for 2 band CA/DC is clarified.

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

[**R4-2112571**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112571.zip) **Clarifications on additional UE co-ex requirements for 2 Band UL CA/DC for Japan(R16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: SoftBank Corp.*

**Abstract:**

Basically the same content as R15 but new combos were added. (Cat.F)

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

[**R4-2112578**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112578.zip) **Clarifications on additional UE co-ex requirements for 2 Band UL CA/DC for Japan(R17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: SoftBank Corp.*

**Abstract:**

Basically the same content as R15 but new combos were added.(Cat.F)

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

[**R4-2112776**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112776.zip) **Reply LS on ambiguity in deciding TL,C**

*Type: LS out For: Approval  
 to RAN5  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2112777**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112777.zip) **CR on ambiguity in deciding TL,C R15 CATF**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated*

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

[**R4-2112778**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112778.zip) **CR on ambiguity in deciding TL,C R16 CATA**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated*

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

[**R4-2112779**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112779.zip) **CR on ambiguity in deciding TL,C R17 CATA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated*

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

[**R4-2112897**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112897.zip) **CR to TS 38.307 on the definition of the duplex-mode for the band configurations**

*Type: CR For: Agreement  
 38.307 v15.8.0 CR-0069 rev Cat: F (Rel-15)  
  
 Source: ZTE Corporation, CHTTL*

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

[**R4-2112898**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112898.zip) **CR to TS 38.307 on the definition of the duplex-mode for the band configurations**

*Type: CR For: Agreement  
 38.307 v16.7.0 CR-0070 rev Cat: A (Rel-16)  
  
 Source: ZTE Corporation, CHTTL*

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

[**R4-2112899**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112899.zip) **CR to TS 38.307 on the definition of the duplex-mode for the band configurations**

*Type: CR For: Agreement  
 38.307 v17.2.0 CR-0071 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation, CHTTL*

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

[**R4-2112904**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112904.zip) **Discussion on inter-band CA Tx RF requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

[**R4-2112905**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112905.zip) **Draft CR to TS38.101-1: Inter-band NR CA Tx requirement including single carrier UL configuration.**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

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

[**R4-2112906**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112906.zip) **Draft CR to TS38.101-1: Inter-band NR CA Tx requirement including single carrier UL configuration.**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

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

[**R4-2112907**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112907.zip) **Draft CR to TS38.101-1: Inter-band NR CA Tx requirement including single carrier UL configuration.**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113021**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113021.zip) **Correction on hanging paragraph for Output power dynamics for CA for Rel-15**

*Type: draftCR For: Approval  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: vivo*

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

[**R4-2113022**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113022.zip) **Correction on hanging paragraph and missing title for Output power dynamics for CA for Rel-16**

*Type: draftCR For: Approval  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

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

[**R4-2113023**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113023.zip) **Correction on hanging paragraph and missing title for Output power dynamics for CA for Rel-17**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

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

[**R4-2113179**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113179.zip) **Correction on SRS antenna switching requirement in TS38.101-1**

*Type: discussion For: Approval  
 Source: Samsung*

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

[**R4-2113180**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113180.zip) **draftCR to TS38.101-1 for the corrections on configured power requirement for SRS antenna switching**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Samsung*

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

[**R4-2113181**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113181.zip) **draftCR to TS38.101-1 for the corrections on configured power requirement for SRS antenna switching**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Samsung*

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

[**R4-2113182**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113182.zip) **draftCR to TS38.101-1 for the corrections on configured power requirement for SRS antenna switching**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Samsung*

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

[**R4-2113298**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113298.zip) **Draft CR for 38.101-1 Rel15 corrections on power tolerance and UE additional maximum output power reduction**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Xiaomi*

**Abstract:**

1.Revise the UE power class lower tolerance in Table 6.2.1-1 from ±2/-2.5 to +2/-2.5 dB for Band n83.

2.Adding NS\_10 for n82 in the section of UE additional maximum output power reduction

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

[**R4-2113299**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113299.zip) **Draft CR for 38.101-1 Rel15 corrections on power tolerance and UE additional maximum output power reduction**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Xiaomi*

**Abstract:**

1.Revise the UE power class lower tolerance in Table 6.2.1-1 from ±2/-2.5 to +2/-2.5 dB for Band n83.

2.Adding NS\_10 for n82 in the section of UE additional maximum output power reduction

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

[**R4-2113300**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113300.zip) **Draft CR for 38.101-1 Rel15 corrections on power tolerance and UE additional maximum output power reduction**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

**Abstract:**

1.Revise the UE power class lower tolerance in Table 6.2.1-1 from ±2/-2.5 to +2/-2.5 dB for Band n83.

2.Adding NS\_10 for n82 in the section of UE additional maximum output power reduction

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

[**R4-2113398**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113398.zip) **Discussion and draft Reply LS on ambiguity in deciding TL,C**

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

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

[**R4-2113399**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113399.zip) **Draft CR for 38.101-1 clarification on the lower limit of Pumax(Rel-15)**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113400**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113400.zip) **Draft CR for 38.101-1 clarification on the lower limit of Pumax(Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113401**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113401.zip) **Draft CR for 38.101-1 clarification on the lower limit of Pumax(Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113417**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113417.zip) **CR for 38.307 to modify information "duplex mode" for band combinations(Rel-15)**

*Type: CR For: Agreement  
 38.307 v15.8.0 CR-0072 rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113418**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113418.zip) **CR for 38.307 to modify information "duplex mode" for band combinations(Rel-16)**

*Type: CR For: Agreement  
 38.307 v16.7.0 CR-0073 rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113419**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113419.zip) **CR for 38.307 to modify information "duplex mode" for band combinations(Rel-17)**

*Type: CR For: Agreement  
 38.307 v17.2.0 CR-0074 rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114497**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114497.zip) **On UL MIMO Tx EVM requirement**

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

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

##### 5.1.2.2 [FR2] Maintenance for 38.101-2

**Email discussion summary of [100-e][102] NR\_Maintenance\_R15\_Part\_2, AI 5.1.2.2, AI 5.1.2.3 –Hisashi Onozawa**

[**R4-2114702**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114702.zip) **Email discussion summary for [100-e][102] NR\_Maintenance\_R15\_Part\_2**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

-------------------------------------------------------------------------------------------------------------

[**R4-2111816**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111816.zip) **draft CR for EESS protection for FR2 NR bands in TR 38.817-01**

*Type: draftCR For: Endorsement  
 38.817-01 v15.6.0 CR- rev Cat: F (Rel-15)  
  
 Source: NTT DOCOMO INC.*

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

[**R4-2112025**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112025.zip) **CR to 38.101-2 on handling of fallbacks for FR2 CA**

*Type: CR For: Agreement  
 38.101-2 v15.14.0 CR-0311 rev 3 Cat: F (Rel-15)  
  
 Source: Apple, Qualcomm Incorporated, Ericsson*

(Replaces RP-202915)

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

[**R4-2112026**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112026.zip) **CR to 38.101-2 on handling of fallbacks for FR2 CA**

*Type: CR For: Agreement  
 38.101-2 v16.8.0 CR-0312 rev 3 Cat: A (Rel-16)  
  
 Source: Apple, Qualcomm Incorporated, Ericsson*

(Replaces RP-202916)

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

[**R4-2112027**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112027.zip) **CR to 38.101-2 on handling of fallbacks for FR2 CA**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0410 rev Cat: A (Rel-17)  
  
 Source: Apple, Qualcomm Incorporated, Ericsson*

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

[**R4-2112139**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112139.zip) **Clarification of FR2 UE configured transmitted power**

*Type: discussion For: Discussion  
 Source: Apple*

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

[**R4-2112140**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112140.zip) **Correction of FR2 UE configured transmitted power**

*Type: draftCR For: Endorsement  
 38.101-2 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

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

[**R4-2112141**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112141.zip) **Correction of FR2 UE configured transmitted power**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

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

[**R4-2112142**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112142.zip) **Correction of FR2 UE configured transmitted power**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112216**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112216.zip) **Update of FR2 UL MIMO transmit signal quality requirements**

*Type: draftCR For: Endorsement  
 38.101-2 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Rohde & Schwarz*

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

[**R4-2112217**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112217.zip) **Update of FR2 UL MIMO transmit signal quality requirements**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Rohde & Schwarz*

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

[**R4-2112218**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112218.zip) **Update of FR2 UL MIMO transmit signal quality requirements**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Rohde & Schwarz*

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

[**R4-2112219**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112219.zip) **Discussion on FR2 transmit signal quality for UL MIMO**

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

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

[**R4-2112366**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112366.zip) **draftCR to 38.101-2 on side conditions for beam correspondence based on SSB and CSI-RS for n257, n258, n260, n261**

*Type: draftCR For: Endorsement  
 38.101-2 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

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

[**R4-2112367**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112367.zip) **draftCR to 38.101-2 on side conditions for beam correspondence based on SSB and CSI-RS for n257, n258, n260, n261**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

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

[**R4-2112368**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112368.zip) **draftCR to 38.101-2 on side conditions for beam correspondence based on SSB and CSI-RS for n257, n258, n260, n261**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112582**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112582.zip) **CR to 38.101-2: P\_min requirements update**

*Type: CR For: Agreement  
 38.101-2 v15.14.0 CR-0411 rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated, Apple Inc.*

**Abstract:**

Make 2L EVM requirement consistent with RAN1

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

[**R4-2112583**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112583.zip) **CR to 38.101-2: P\_min requirements update**

*Type: CR For: Agreement  
 38.101-2 v16.8.0 CR-0412 rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated, Apple Inc.*

**Abstract:**

Make 2L EVM requirement consistent with RAN1

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

[**R4-2112584**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112584.zip) **CR to 38.101-2: P\_min requirements update**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0413 rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated, Apple Inc.*

**Abstract:**

Make 2L EVM requirement consistent with RAN1

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

[**R4-2112731**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112731.zip) **draft CR for EESS protection for FR2 NR bands in TR 38.817-01**

*Type: draftCR For: Endorsement  
 38.817-01 v16.2.0 CR- rev Cat: A (Rel-16)  
  
 Source: NTT DOCOMO INC.*

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

[**R4-2112734**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112734.zip) **Discussion on EESS protection requirements after 2024/2027**

*Type: other For: Approval  
 Source: NTT DOCOMO INC.*

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

[**R4-2112968**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112968.zip) **CR to TR 38.815: Adding n261 to TR scope**

*Type: CR For: Agreement  
 38.815 v15.0.0 CR-0001 rev Cat: F (Rel-15)  
  
 Source: Samsung, Verizon*

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

[**R4-2113103**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113103.zip) **Draft CR for Rel-15 38.101-2 to replace SMBS with Delta MBS,n in section 6.6.4.3.1 of side conditions for beam correspondence**

*Type: draftCR For: Endorsement  
 38.101-2 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Xiaomi*

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

[**R4-2113104**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113104.zip) **Draft CR for Rel-16 38.101-2 to replace SMBS with Delta MBS,n in section 6.6.4.3.1 of side conditions for beam correspondence**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Xiaomi*

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

[**R4-2113105**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113105.zip) **Draft CR for Rel-17 38.101-2 to replace SMBS with Delta MBS,n in section 6.6.4.3.1 of side conditions for beam correspondence**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

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

[**R4-2114387**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114387.zip) **Draft CR on Minor correction on UL additional reference channels parameters for TDD 60kHz SCS**

*Type: draftCR For: Endorsement  
 38.101-2 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Keysight Technologies UK Ltd, Qualcomm Incorporated*

**Abstract:**

Missing nrofUplinkSymbols for UL-DL configuration required for SCS=60kHz in table A.2.3-1 while Special Slot Configuration indicates S=4D+6G+4U.

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

[**R4-2114388**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114388.zip) **Draft CR on Minor correction on UL additional reference channels parameters for TDD 60kHz SCS**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, Qualcomm Incorporated*

**Abstract:**

There is an inconsistency in table A.2.3-1 regarding UL-DL configuration for UL Reference Measurement Channel for SCS=60kHz: while nrofUplinkSymbols is configured to 0, Special Slot Configuration indicates S=4D+6G+4U.

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

[**R4-2114389**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114389.zip) **Draft CR on Minor correction on UL additional reference channels parameters for TDD 60kHz SCS**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd, Qualcomm Incorporated*

**Abstract:**

There is an inconsistency in table A.2.3-1 regarding UL-DL configuration for UL Reference Measurement Channel for SCS=60kHz: while nrofUplinkSymbols is configured to 0, Special Slot Configuration indicates S=4D+6G+4U.

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

[**R4-2114473**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114473.zip) **Draft CR on Minor correction on UL additional reference channels parameters for TDD 60kHz SCS**

*Type: draftCR For: Endorsement  
 38.101-2 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Keysight Technologies UK Ltd, Qualcomm Incorporated*

**Abstract:**

Missing nrofUplinkSymbols for UL-DL configuration required for SCS=60kHz in table A.2.3-1 while Special Slot Configuration indicates S=4D+6G+4U.

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

##### 5.1.2.3 Maintenance for 38.101-3

[**R4-2112028**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112028.zip) **CR to 38.101-3 on handling of fallbacks for FR2 CA**

*Type: CR For: Agreement  
 38.101-3 v15.14.0 CR-0430 rev 3 Cat: F (Rel-15)  
  
 Source: Apple, Qualcomm Incorporated, Ericsson*

(Replaces RP-202917)

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

[**R4-2112029**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112029.zip) **CR to 38.101-3 on handling of fallbacks for FR2 CA**

*Type: CR For: Agreement  
 38.101-3 v16.8.0 CR-0431 rev 3 Cat: A (Rel-16)  
  
 Source: Apple, Qualcomm Incorporated, Ericsson*

(Replaces RP-202918)

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

[**R4-2112030**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112030.zip) **CR to 38.101-3 on handling of fallbacks for FR2 CA**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0613 rev Cat: A (Rel-17)  
  
 Source: Apple, Qualcomm Incorporated, Ericsson*

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

[**R4-2112373**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112373.zip) **Clarifications on intra-band EN-DC combinations**

*Type: other For: Approval  
 38.101-3 v CR- rev Cat: (Rel-15)  
  
 Source: Apple*

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

[**R4-2112374**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112374.zip) **Draft CR for TS 38.101-3: Corrections for intra-band EN-DC configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

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

[**R4-2112375**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112375.zip) **Draft CR for TS 38.101-3: Corrections for intra-band EN-DC configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

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

[**R4-2112376**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112376.zip) **Draft CR for TS 38.101-3: Corrections for intra-band EN-DC configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112580**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112580.zip) **Clarifications on additional UE co-ex requirements for 2 Band UL CA/DC for Japan(R15)**

*Type: draftCR For: Endorsement  
 38.101-3 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: SoftBank Corp.*

**Abstract:**

Applicability of additional emission requirements for 2 band CA/DC is clarified.

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

[**R4-2112581**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112581.zip) **Clarifications on additional UE co-ex requirements for 2 Band UL CA/DC for Japan(R16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: SoftBank Corp.*

**Abstract:**

Basically the same content as R15 but new combos were added. (Cat.F)

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

[**R4-2112585**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112585.zip) **Clarifications on additional UE co-ex requirements for 2 Band UL CA/DC for Japan(R17)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: SoftBank Corp.*

**Abstract:**

Basically the same content as R15 but new combos were added. (Cat.F)

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

[**R4-2113018**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113018.zip) **Correction on scaling number for EN-DC MPR and A-MPR**

*Type: draftCR For: Approval  
 38.101-3 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: vivo*

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

[**R4-2113019**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113019.zip) **Correction on scaling number for EN-DC MPR and A-MPR**

*Type: draftCR For: Approval  
 38.101-3 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: vivo*

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

[**R4-2113020**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113020.zip) **Correction on scaling number for EN-DC MPR and A-MPR**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: vivo*

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

[**R4-2113431**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113431.zip) **Draft CR for 38.101-3 to correct the MSD due to PA non-linearities interference in 1st and 2nd adjacent channel of UL band (Rel-15)**

*Type: draftCR For: Endorsement  
 38.101-3 v15.14.0 CR- rev Cat: (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113432**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113432.zip) **Draft CR for 38.101-3 to correct the MSD due to Tx non-linearities interference in 1st and 2nd adjacent channel of UL band (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113433**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113433.zip) **Draft CR for 38.101-3 to correct the MSD due to Tx non-linearities interference in 1st and 2nd adjacent channel of UL band (Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113436**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113436.zip) **Draft CR for 38.101-3 to correct the MSD test points(Rel-15)**

*Type: draftCR For: Endorsement  
 38.101-3 v15.14.0 CR- rev Cat: (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113437**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113437.zip) **Draft CR for 38.101-3 to correct the MSD test points(Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113438**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113438.zip) **Draft CR for 38.101-3 to correct the MSD test points(Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114062**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114062.zip) **Clarification of intra-bandENDC-Support**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2114390**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114390.zip) **Draft CR on Spurious co-existence corrections for Dual connectivity including band n28**

*Type: draftCR For: Endorsement  
 38.101-3 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Keysight Technologies UK Ltd, Orange*

**Abstract:**

NOTES 9, 14 and 17 are applicable to some band combos including band n28 but for such band combos referred frequencies in those notes belong to NR carrier

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

[**R4-2114391**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114391.zip) **Draft CR on Spurious co-existence corrections for Dual connectivity including band n28**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Keysight Technologies UK Ltd, Orange*

**Abstract:**

NOTES 9, 14 and 17 are applicable to some band combos including band n28 but for such band combos referred frequencies in those notes belong to NR carrier.

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

[**R4-2114392**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114392.zip) **Draft CR on Spurious co-existence corrections for Dual connectivity including band n28**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd, Orange*

**Abstract:**

NOTES 9, 14 and 17 are applicable to some band combos including band n28 but for such band combos referred frequencies in those notes belong to NR carrier.

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

[**R4-2114495**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114495.zip) **on intrabandENDC-support IE**

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

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

[**R4-2114539**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114539.zip) **Discussion on Intra-Band EN-DC support**

*Type: discussion For: Approval  
 Source: Google Inc.*

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

#### 5.1.3 UE EMC requirements maintenance

#### 5.1.4 BS RF requirements maintenance

##### 5.1.4.1 General

##### 5.1.4.2 TX/RX requirements maintenance (38.104)

##### 5.1.4.3 MSR specifications maintenance

#### 5.1.5 BS conformance testing Maintenance

##### 5.1.5.1 General

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

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

##### 5.1.5.4 eAAS specifications maintenance

#### 5.1.6 BS EMC requirements Maintenance

#### 5.1.7 RRM core requirements maintenance (38.133/36.133)

#### 5.1.8 RRM performance requirements maintenance (38.133/36.133)

#### 5.1.9 Demodulation and CSI requirements maintenance (38.101-4/38.104)

##### 5.1.9.1 UE demodulation requirements

##### 5.1.9.2 CSI requirements

##### 5.1.9.3 BS demodulation requirements

#### 5.1.10 Positioning specs maintenance (36.171, 37.171 and 38.171)

##### 5.1.10.1 Frequency Bands for testing of A-GNSS Sensitivity

##### 5.1.10.2 Other

#### 5.1.11 Testability Maintenance (38.810)

### 5.2 LTE maintenance (up to Rel-15)

#### 5.2.1 Even further mobility enhancement

##### 5.2.1.1 RRM core requirements

##### 5.2.1.2 RRM performance requirements

#### 5.2.2 Other WIs or R16 TEI

##### 5.2.2.1 BS RF requirements

##### 5.2.2.2 UE RF requirements

**Refer to email discussion summary of [100-e][106] LTE\_Maintenance\_R15\_16, AI 5.2.2.2, AI 6.2.2 – Sanjun Feng**

[**R4-2112241**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112241.zip) **Draft CR for 36.101: Correction on operating bands for NB-IoT in the USA (Rel-14)**

*Type: draftCR For: Endorsement  
 36.101 v14.19.0 CR- rev Cat: F (Rel-14)  
  
 Source: Qualcomm Incorporated, T-Mobile USA*

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

[**R4-2112242**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112242.zip) **Mirror draft CR for 36.101: Correction on operating bands for NB-IoT in the USA (Rel-15)**

*Type: draftCR For: Endorsement  
 36.101 v15.15.0 CR- rev Cat: A (Rel-15)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2112243**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112243.zip) **Mirror draft CR for 36.101: Correction on operating bands for NB-IoT in the USA (Rel-16)**

*Type: draftCR For: Endorsement  
 36.101 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2112244**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112244.zip) **Mirror draft CR for 36.101: Correction on operating bands for NB-IoT in the USA (Rel-17)**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2112354**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112354.zip) **draftCR for TS 36-101 Rel-15: Correction for CA\_66 coexistence**

*Type: draftCR For: Endorsement  
 36.101 v15.15.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

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

[**R4-2112355**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112355.zip) **draftCR for TS 36-101 Rel-16: Correction for CA\_66 coexistence**

*Type: draftCR For: Endorsement  
 36.101 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

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

[**R4-2112356**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112356.zip) **draftCR for TS 36-101 Rel-17: Correction for CA\_66 coexistence**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112386**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112386.zip) **draftCR to 36.101 on removal of BCS1 for CA\_5B**

*Type: draftCR For: Endorsement  
 36.101 v14.19.0 CR- rev Cat: F (Rel-14)  
  
 Source: Apple*

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

[**R4-2112387**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112387.zip) **draftCR to 36.101 on removal of BCS1 for CA\_5B**

*Type: draftCR For: Endorsement  
 36.101 v15.15.0 CR- rev Cat: A (Rel-15)  
  
 Source: Apple*

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

[**R4-2112388**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112388.zip) **draftCR to 36.101 on removal of BCS1 for CA\_5B**

*Type: draftCR For: Endorsement  
 36.101 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

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

[**R4-2112389**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112389.zip) **draftCR to 36.101 on removal of BCS1 for CA\_5B**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112629**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112629.zip) **draft CR to TS36.101[R13] Addition of UE co-existence requirements for Band 40**

*Type: draftCR For: Endorsement  
 36.101 v13.21.0 CR- rev Cat: F (Rel-13)  
  
 Source: NTT DOCOMO, INC.*

**Abstract:**

R13 CAT-F CR to resubmit because part of the already agreed CR is not reflected in the spec.

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

[**R4-2112630**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112630.zip) **draft CR to TS 36.101[R14]: Addition of UE co-existence requirements for band 40**

*Type: draftCR For: Endorsement  
 36.101 v14.19.0 CR- rev Cat: F (Rel-14)  
  
 Source: NTT DOCOMO, INC.*

**Abstract:**

R14 CAT-F CR to resubmit because part of the already agreed CR is not reflected in the spec.

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

[**R4-2112631**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112631.zip) **draft CR to TS 36.101[R15]: Addition of UE co-existence requirements for band 40**

*Type: draftCR For: Endorsement  
 36.101 v15.15.0 CR- rev Cat: F (Rel-15)  
  
 Source: NTT DOCOMO, INC.*

**Abstract:**

R15 CAT-F CR to resubmit because part of the already agreed CR is not reflected in the spec.

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

[**R4-2114237**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114237.zip) **Draft LS to RAN5, PTCRB and CPWG on NB-IoT testing**

*Type: LS out For: Approval  
 to RAN5, PTCRB, CPWG  
 Source: T-Mobile USA*

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

##### 5.2.2.3 RRM requirements

###### 5.2.2.3.1 RRM core requirements

###### 5.2.2.3.2 RRM performance requirements

##### 5.2.2.4 Demodulation and CSI requirements

###### 5.2.2.4.1 UE demodulation requirements

###### 5.2.2.4.2 CSI requirements

###### 5.2.2.4.3 BS demodulation requirements

## 6 Rel-16 maintenance for both NR and LTE

### 6.1 NR maintenance

**Email discussion summary of [100-e][103] NR\_Maintenance\_R16\_Part\_1, AI 6.1.1.1, AI 6.1.1.2, AI 6.1.10.2 –Gene Fong**

[**R4-2114703**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114703.zip) **Email discussion summary for [100-e][103] NR\_Maintenance\_R16\_Part\_1**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 6.1.1 NR-based access to unlicensed spectrum

##### 6.1.1.1 System parameter

[**R4-2113434**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113434.zip) **Draft CR for 38.101-1 to clarify fallback group for bandwidth class(Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113435**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113435.zip) **Draft CR for 38.101-1 to clarify fallback group for bandwidth class(Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

##### 6.1.1.2 UE RF requirement

[**R4-2111839**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111839.zip) **Delete CA configurations with n46E**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Charter Communications, Inc*

**Abstract:**

Delete CA configurations with n46E

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

[**R4-2111840**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111840.zip) **Delete CA configurations with n46E**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Charter Communications, Inc*

**Abstract:**

Delete CA configurations CA\_n46E-n48A, CA\_n46E-n48B, CA\_n46E-n48C

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

[**R4-2111841**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111841.zip) **Add n96 to Table 6.5.3.2-1**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Charter Communications, Inc*

**Abstract:**

Add n96 to Table 6.5.3.2-1

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

[**R4-2111842**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111842.zip) **Add n96 to Table 6.5.3.2-1**

*Type: draftCR For: Approval  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Charter Communications, Inc*

**Abstract:**

Add n96 to Table 6.5.3.2-1: Requirements for spurious emissions for UE co-existence

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

##### 6.1.1.3 BS RF requirement

##### 6.1.1.4 BS conformance testing

###### 6.1.1.4.1 Non-contiguous transmission testing

###### 6.1.1.4.2 Others

##### 6.1.1.5 RRM core requirements (38.133)

###### 6.1.1.5.1 General

###### 6.1.1.5.2 RRC connection mobility control

###### 6.1.1.5.3 SCell activation/deactivation (delay and interruption)

###### 6.1.1.5.4 Timing

###### 6.1.1.5.5 Other requirements

##### 6.1.1.6 RRM performance requirements (38.133)

###### 6.1.1.6.1 General

###### 6.1.1.6.2 Measurement accuracy requirements

###### 6.1.1.6.3 Test cases

6.1.1.6.3.1 General

6.1.1.6.3.2 RRC IDLE cell re-selection

6.1.1.6.3.3 HO (delay and interruptions)

6.1.1.6.3.4 RRC Re-establishment

6.1.1.6.3.5 RRC Connection Release with Redirection

6.1.1.6.3.6 Random access

6.1.1.6.3.7 Timing (transmit timing and TA)

6.1.1.6.3.8 BWP switching delay and interruptions

6.1.1.6.3.9 PSCell addition/release (delay and interruption)

6.1.1.6.3.10 SCell activation/deactivation (delay and interruption)

6.1.1.6.3.11 Other interruptions

6.1.1.6.3.12 RLM

6.1.1.6.3.13 Beam management (BFD and link recovery)

6.1.1.6.3.14 SS-RSRP/SS-RSRQ/SS-SINR/L1-RSRP measurement procedure (intra-frequency, inter-frequency, inter-RAT)

6.1.1.6.3.15 RSSI/CO measurement procedure (intra-frequency, inter-frequency, inter-RAT)

6.1.1.6.3.16 SFTD measurement procedure

6.1.1.6.3.17 SS-RSRP/SS-RSRQ/SS-SINR/L1-RSRP measurement accuracy (intra-frequency, inter-frequency, inter-RAT)

6.1.1.6.3.18 RSSI/CO measurement accuracy (intra-frequency, inter-frequency, inter-RAT)

6.1.1.6.3.19 SFTD measurement accuracy

6.1.1.6.3.20 Other

##### 6.1.1.7 Demodulation and CSI requirements (38.101-4/38.104)

###### 6.1.1.7.1 General

###### 6.1.1.7.2 UE demodulation requirements

###### 6.1.1.7.3 CSI requirements

###### 6.1.1.7.4 BS demodulation requirements

#### 6.1.2 Integrated Access and Backhaul for NR

##### 6.1.2.1 RF requirements

##### 6.1.2.2 RF conformance testing

###### 6.1.2.2.1 General

###### 6.1.2.2.2 Common test issues for conducted and radiated conformance testing

6.1.2.2.2.1 Test Model with High PSD and narrow RBs allocation

6.1.2.2.2.2 MU clean-up

6.1.2.2.2.3 Others

###### 6.1.2.2.3 Conducted conformance testing

###### 6.1.2.2.4 Radiated conformance testing

##### 6.1.2.3 RRM core requirements

##### 6.1.2.4 RRM performance requirements

##### 6.1.2.5 EMC performance requirements

##### 6.1.2.6 Demodulation and CSI requirements

###### 6.1.2.6.1 General

###### 6.1.2.6.2 IAB-DU performance requirements

###### 6.1.2.6.3 IAB-MT performance requirements

#### 6.1.3 5G V2X with NR sidelink

##### 6.1.3.1 RF core requirements

**Refer to email discussion summary of [100-e][134] NRSL\_enh\_Part\_1, AI 9.15.1, 9.15.2, 9.15.3, 9.15.4, 9.15.7, 6.1.3.1 – Suhwan Lim**

[**R4-2112843**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112843.zip) **Consideration on A-SEM requirements by NS\_52 based on FCC regulation**

*Type: discussion For: Approval  
 Source: LG Electronics France*

**Abstract:**

Discuss on the existing FCC requirements for ITS spectrum. they only support 30MHz CBW in US.

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

[**R4-2112888**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112888.zip) **Draft CR for correction of 5G V2X UE RF requirements in Rel-16**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: LG Electronics France*

**Abstract:**

CR is to update the editorial correction for 5G V2X UE in TS38.101-1

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

[**R4-2112892**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112892.zip) **Draft CR for correction of 5G V2X UE RF requirements in Rel-17**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

Cat.A CR for correction of 5G V2X UE RF requirements in TS38.101-1 Rel-17

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

[**R4-2113411**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113411.zip) **Draft CR for 38.101-1 to remove the ASE requirements for NS\_52 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113412**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113412.zip) **Draft CR for 38.101-1 to remove the ASE requirements for NS\_52 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

##### 6.1.3.2 RRM requirements (38.133)

##### 6.1.3.3 Demodulation requirements (38.101-4)

###### 6.1.3.3.1 General

###### 6.1.3.3.2 Single link test

###### 6.1.3.3.3 Multiple link test

#### 6.1.4 Multi-RAT Dual-Connectivity and Carrier Aggregation enhancements

##### 6.1.4.1 UE RF requirement (38.101-1)

##### 6.1.4.2 RRM core requirement (38.133/36.133)

###### 6.1.4.2.1 Early Measurement reporting

###### 6.1.4.2.2 Efficient and low latency serving cell configuration, activation and setup

##### 6.1.4.3 RRM performance requirements (38.133)

###### 6.1.4.3.1 Early Measurement reporting

###### 6.1.4.3.2 Efficient and low latency serving cell configuration, activation and setup

#### 6.1.5 Enhancements on MIMO for NR

##### 6.1.5.1 RRM requirements (38.133)

###### 6.1.5.1.1 Applicability of MRTD/MTTD requirements for multi-TRxP

###### 6.1.5.1.2 Test case for pathloss RS activation delay

###### 6.1.5.1.3 Others

##### 6.1.5.2 Others

#### 6.1.6 NR Positioning Support

##### 6.1.6.1 RRM core requirement (38.133)

###### 6.1.6.1.1 PRS-RSTD measurement requirements

###### 6.1.6.1.2 PRS-RSRP measurement requirements

###### 6.1.6.1.3 UE Rx-Tx time difference measurement requirements

###### 6.1.6.1.4 Other requirements

##### 6.1.6.2 RRM performance requirements (38.133)

###### 6.1.6.2.1 General

###### 6.1.6.2.2 UE requirements and test cases

6.1.6.2.2.1 General

6.1.6.2.2.2 Measurement accuracy requirements

6.1.6.2.2.3 Test cases

6.1.6.2.2.2.1 PRS RSTD

6.1.6.2.2.4 Other

6.1.6.2.2.2.2 PRS RSRP

6.1.6.2.2.3.1 General

6.1.6.2.2.2.2 PRS RSRP

6.1.6.2.2.3.1 General

6.1.6.2.2.2.3 UE Rx-Tx time difference

6.1.6.2.2.3.2 Measurement requirements

6.1.6.2.2.2.3 UE Rx-Tx time difference

6.1.6.2.2.3.2 Measurement requirements

6.1.6.2.2.2.3 UE Rx-Tx time difference

6.1.6.2.2.3.2 Measurement requirements

6.1.6.2.2.2.3 UE Rx-Tx time difference

6.1.6.2.2.3.3 Accuracy requirements

###### 6.1.6.2.3 gNB requirements

6.1.6.2.3.1 General

6.1.6.2.3.2 SRS-RSRP requirements

6.1.6.2.3.3 gNB Rx-Tx time difference requirements

#### 6.1.7 NR RRM requirement enhancement

##### 6.1.7.1 RRM core requirements

##### 6.1.7.2 RRM performance requirements

#### 6.1.8 NR RRM requirements for CSI-RS based L3 measurement

##### 6.1.8.1 RRM core requirements (38.133)

##### 6.1.8.2 RRM performance requirements (38.133)

###### 6.1.8.2.1 General

###### 6.1.8.2.2 Measurement accuracy requirements

6.1.8.2.2.1 CSI-RSRP requirements

6.1.8.2.2.2 CSI-RSRQ requirements

6.1.8.2.2.3 CSI-SINR requirements

###### 6.1.8.2.3 Test cases

6.1.8.2.3.1 General

6.1.8.2.3.2 Intra-frequency measurement

6.1.8.2.3.3 Inter-frequency measurement

6.1.8.2.3.4 Measurement performance

#### 6.1.9 Maintenance for other WIs

##### 6.1.9.1 BS RF requirements

##### 6.1.9.2 UE RF requirements

**Email discussion summary of [100-e][104] NR\_Maintenance\_R16\_Part\_2, AI 6.1.9.2 – Jinqiang Xing**

[**R4-2114704**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114704.zip) **Email discussion summary for [100-e][104] NR\_Maintenance\_R16\_Part\_2**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

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[**R4-2112780**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112780.zip) **draft CR Correction of common UE RF requirement 38.307 Annex tables R16**

*Type: draftCR For: Endorsement  
 38.307 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2112781**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112781.zip) **draft CR Correction of common UE RF requirement 38.307 Annex tables R17**

*Type: draftCR For: Endorsement  
 38.307 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

###### 6.1.9.2.1 [FR1] Maintenance for 38.101-1

[**R4-2111732**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111732.zip) **Imbalance Requirement for Type 2 UE RX**

*Type: other For: (not specified)  
 Source: Qualcomm Incorporated*

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

[**R4-2111733**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111733.zip) **n65 NS\_24 AMPR**

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

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

[**R4-2111734**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111734.zip) **CR CatF n65 NS\_24 AMPR**

*Type: CR For: Agreement  
 38.101-1 v16.8.0 CR-0879 rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2111735**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111735.zip) **CR CatA N65 NS\_24 AMPR**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0880 rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

[**R4-2112232**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112232.zip) **Short Transient Period**

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

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

[**R4-2112254**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112254.zip) **FFT window starting point values for EVM measurements for transient period capability**

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

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

[**R4-2112348**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112348.zip) **Additional requirements and A-MPR for NS\_21 and n30**

*Type: discussion For: Decision  
 Source: Apple*

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

[**R4-2112349**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112349.zip) **draftCR: Rel-16 Additional requirements and A-MPR for NS\_21 and n30**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

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

[**R4-2112350**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112350.zip) **draftCR: Rel1-6 Additional requirements and A-MPR for NS\_21 and n30**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112357**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112357.zip) **draftCR for TS 38.101-1 Rel-16: Applying n40 and n41 spurious emissions on CA**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

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

[**R4-2112377**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112377.zip) **Draft CR for TS 38.101-1: Corrections for CA MPR table referencing**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

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

[**R4-2112378**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112378.zip) **Draft CR for TS 38.101-1: Corrections for CA MPR table referencing**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112438**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112438.zip) **R16 draft CR for 38.101-1 to correct errors and make up missing values in Reference sensitivity due to UL harmonic table(CAT F)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Samsung*

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

[**R4-2112439**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112439.zip) **R17 mirror draft CR for 38.101-1 to correct errors and make up missing values in Reference sensitivity due to UL harmonic table (CAT A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Samsung*

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

[**R4-2112632**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112632.zip) **draft CR to TS38.101-1[R16] Addition of UE co-existence requirements between n40 and n41**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: NTT DOCOMO, INC.*

**Abstract:**

R16 CAT-F CR to add co-existence requirements between n40 and n41.

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

[**R4-2112633**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112633.zip) **draft CR to TS38.101-1[R17] Addition of UE co-existence requirements between n40 and n41**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC.*

**Abstract:**

CAT-A CR for R17

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

[**R4-2112725**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112725.zip) **Draft CR to TS 38.101-1 on corrections to network signalling (Rel-16)**

*Type: draftCR For: Approval  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

This draft CR is to unify the denotation for “network signalling” (NS).

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

[**R4-2112726**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112726.zip) **Draft CR to TS 38.101-1 on corrections to network signalling (Rel-17)**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This draft CR is to unify the denotation for “network signalling” (NS).

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

[**R4-2112809**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112809.zip) **Support of asymmetric BW for CA**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to clarify the relation between the BCS and use of asymmetric BW for CA

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

[**R4-2112810**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112810.zip) **Support of asymmetric BW for CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to clarify the relation between the BCS and use of asymmetric BW for CA

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

[**R4-2112814**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112814.zip) **Modification of Pcmax for UL CA with uplink Tx switching capability**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Draft CR implementing the CR endorsed by RAN#91-e in the latest version of the specification

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

[**R4-2112815**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112815.zip) **Modification of Pcmax for UL CA with uplink Tx switching capability**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR implementing the CR endorsed by RAN#91-e in the latest version of the specification

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

[**R4-2112870**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112870.zip) **draft CR for mandatory simultaneous Rx/Tx capability for FR1 NR-DC**

*Type: draftCR For: Approval  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CHTTL, SoftBank Corp., NTT DOCOMO, INC.*

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

[**R4-2112874**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112874.zip) **draft CR for mandatory simultaneous Rx/Tx capability for FR1 NR-DC combinations**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: CHTTL, SoftBank Corp., NTT DOCOMO, INC.*

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

[**R4-2112908**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112908.zip) **Draft CR to TS38.101-1: Inter-band NR CA Tx requirement including intra-band contiguous CA UL configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

[**R4-2112909**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112909.zip) **Draft CR to TS38.101-1: Inter-band NR CA Tx requirement including intra-band contiguous CA UL configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113403**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113403.zip) **Discussion on type 2 UE requirements**

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

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

[**R4-2113413**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113413.zip) **DraftCR for 38.101-3 to specify type 2 UE requirements(Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113414**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113414.zip) **DraftCR for 38.101-3 to specify type 2 UE requirements(Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113415**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113415.zip) **DraftCR for 38.101-1 to correct the configurations for intra-band CA (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113416**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113416.zip) **DraftCR for 38.101-1 to correct the configurations for intra-band CA (Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113569**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113569.zip) **Rel-16 draft CR 38.101-1-g80, band combination corrections**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Rel-16 draft CR 38.101-1, band combination corrections

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

[**R4-2113571**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113571.zip) **Rel-17 draft mirror CR 38101-1-h20 Rel-16 corrections of CA combinations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

mirror CR to Rel-16 changes

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

[**R4-2114475**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114475.zip) **draft CR on intra-band UL CA Pcmax**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114483**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114483.zip) **draft CR on intra-band UL CA Pcmax**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114484**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114484.zip) **draft CR on shorter transient requirement for TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114485**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114485.zip) **draft CR on shorter transient requirement for TS 38.101-1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114501**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114501.zip) **draft CR for 38.101-1 to correct the Power control for CA**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114502**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114502.zip) **CR for 38.101-1 to correct the Power control for CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114532**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114532.zip) **draft CR for 38.101-1 to correct IE and UE capability for half Pi BPSK (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114533**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114533.zip) **draft CR for 38.101-1 to correct IE and UE capability for half Pi BPSK (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114583**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114583.zip) **Corrections for Transient Period Capability**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document proposes corrections to EVM FFT window definition and to tpstart values for the shorter transient period capability feature.

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

###### 6.1.9.2.2 [FR2] Maintenance for 38.101-2

[**R4-2112379**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112379.zip) **Draft CR for TS 38.101-2: FR2 inter-band DL CA requirements clarification**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

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

[**R4-2112380**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112380.zip) **Draft CR for TS 38.101-2: FR2 inter-band DL CA requirements clarification**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112818**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112818.zip) **Correction to modified MPR behaviour**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to correct modified MPR behaviour (bits shall be set if the bit is introduced in an earlier release)

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

[**R4-2112819**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112819.zip) **Correction to modified MPR behaviour**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to correct modified MPR behaviour (bits shall be set if the bit is introduced in an earlier release)

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

[**R4-2113106**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113106.zip) **Draft CR Rel-16 for 38.101-2 to replace SMBS with Delta MBS,n in section 6.6.4.3.3 of side conditions for beam correspondence**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Xiaomi*

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

[**R4-2113107**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113107.zip) **Draft CR Rel-17 for 38.101-2 to replace SMBS with Delta MBS,n in section 6.6.4.3.3 of side conditions for beam correspondence**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

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

[**R4-2113570**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113570.zip) **Rel-16 draft CR 38.101-2-g80, band combination corrections**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Rel-16 draft CR 38.101-2, band combination corrections

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

[**R4-2113572**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113572.zip) **Rel-17 draft mirror CR 38101-2-h20 Rel-16 corrections of CA combinations**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

mirror CR to Rel-16 changes

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

[**R4-2113660**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113660.zip) **DRAFT CR update of relative power control requirements for FR2.**

*Type: draftCR For: Endorsement  
 38.101-2 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Update of the relative pwr control requirements for FR2 to mandate testability in RAN5

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

###### 6.1.9.2.3 Maintenance for 38.101-3

[**R4-2112359**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112359.zip) **draftCR for TS 38.101-3 Rel-16: Applying n40 and n41 spurious emissions on DC**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

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

[**R4-2112360**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112360.zip) **draftCR for TS 38.101-3 Rel-17: Applying n40 and n41 spurious emissions on DC**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

[**R4-2112579**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112579.zip) **draft CR for correction on completed combinations with remove errors**

*Type: draftCR For: Approval  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CHTTL, SK Telecom*

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

[**R4-2112586**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112586.zip) **draft CR for correction on completed combinations with remove errors**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: CHTTL, SK Telecom*

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

[**R4-2112820**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112820.zip) **Correction to band combinations for intra-band EN-DC**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to correct UL configurations of intra-band EN-DC not compatible with the fallback specification in 38.306 and account for possible configurations using intraBandENDC-support indication

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

[**R4-2112821**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112821.zip) **Correction to band combinations for intra-band EN-DC**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to correct UL configurations of intra-band EN-DC not compatible with the fallback specification in 38.306 and account for possible configurations using intraBandENDC-support indication

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

[**R4-2112895**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112895.zip) **draft CR for mandatory simultaneous Rx/Tx capability for FR1+FR2 NR-DC combinations**

*Type: draftCR For: Approval  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CHTTL, SoftBank Corp., NTT DOCOMO, INC.*

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

[**R4-2112917**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112917.zip) **draft CR to TS38.101-3 missing MSD due to cross band for DC\_3-n34**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

[**R4-2112918**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112918.zip) **draft CR to TS38.101-3 missing MSD due to cross band for DC\_3-n34**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112954**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112954.zip) **draft CR for mandatory simultaneous Rx/Tx capability for FR1+FR2 NR-DC combinations**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: CHTTL, SoftBank Corp., NTT DOCOMO, INC.*

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

[**R4-2112959**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112959.zip) **Draft CR for correction of PC1.5 EN-DC UE in TS38.101-3 Rel-16**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: LG Electronics France*

**Abstract:**

The specification is not clear to support PC1.5 DC UE for DC\_(n)41AA and DC\_41A\_n41A in section 6.2B.3 for A-MPR requirements.

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

[**R4-2112965**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112965.zip) **Draft CR for correction of PC1.5 EN-DC UE in TS38.101-3 Rel-17**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

Cat. A CR for correction of PC1.5 EN-DC UE A-MPR requirements in TS38.101-3 in Rel-17

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

[**R4-2113439**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113439.zip) **Draft CR for 38.101-3 correct the MSD test table and remove UL configuration (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113440**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113440.zip) **Draft CR for 38.101-3 to correct the RB allocation in MSD test table(Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114028**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114028.zip) **TS 38.101-3: Addition of missing lower order fallbacks**

*Type: draftCR For: Approval  
 38.101-3 v16.8.0 CR- rev Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon, BT*

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

[**R4-2114034**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114034.zip) **TR 37.716-21-21: Addition of missing lower order fallbacks**

*Type: draftCR For: Approval  
 37.716-21-21 v16.0.0 CR- rev Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon, BT*

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

##### 6.1.9.3 RRM requirements

###### 6.1.9.3.1 RRM core

###### 6.1.9.3.2 RRM performance

##### 6.1.9.4 Demodulation and CSI requirements

###### 6.1.9.4.1 UE demodulation requirements

###### 6.1.9.4.2 CSI requirements

###### 6.1.9.4.3 BS demodulation requirements

##### 6.1.9.5 NR MIMO OTA test methods (38.827)

#### 6.1.10 R16 TEI

##### 6.1.10.1 BS RF requirements

##### 6.1.10.2 UE RF requirements

**Refer to email discussion summary of [100-e][103] NR\_Maintenance\_R16\_Part\_1, AI 6.1.1.1, AI 6.1.1.2, AI 6.1.10.2 –Gene Fong**

[**R4-2112727**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112727.zip) **Draft CR to TS 38.101-1 on corrections to symbols and abbreviations (Rel-16)**

*Type: draftCR For: Approval  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

This draft CR is to correct the symbols and abbreviations.

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

[**R4-2112728**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112728.zip) **Draft CR to TS 38.101-1 on corrections to symbols and abbreviations (Rel-17)**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This draft CR is to correct the symbols and abbreviations.

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

##### 6.1.10.3 RRM requirements

##### 6.1.10.4 Demodulation and CSI requirements

##### 6.1.10.5 US band n77 (update of requirements)

**Email discussion summary of [100-e][105] US\_n77, AI 6.1.10.5 – James Wang**

[**R4-2114705**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114705.zip) **Email discussion summary for [100-e][105] US\_n77**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2112048**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112048.zip) **Discussion of addition of 3.45-3.55 GHz in Band n77 for the US**

*Type: discussion For: Approval  
 Source: Mediatek India Technology Pvt.*

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

[**R4-2112049**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112049.zip) **CR for addition of 3.45-3.55 GHz in Band n77 for the US -r16**

*Type: CR For: Agreement  
 38.101-1 v16.8.0 CR-0886 rev Cat: F (Rel-16)  
  
 Source: Mediatek India Technology Pvt.*

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

[**R4-2112050**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112050.zip) **CR for addition of 3.45-3.55 GHz in Band n77 for the US -r17**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0887 rev Cat: A (Rel-17)  
  
 Source: Mediatek India Technology Pvt.*

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

[**R4-2112271**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112271.zip) **Draft CR to TS 38.104: Addition of FCC emission limits on US 3.45-3.55 GHz band**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Clarify that the power boosted NB-IoT RB shall be placed at the lower and upper edges of the BS RF bandwidth.

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

[**R4-2112272**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112272.zip) **Draft CR to TS 38.104: Addition of FCC emission limits on US 3.45-3.55 GHz band**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 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:** The document was **not treated**.

[**R4-2112273**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112273.zip) **Draft CR to TS 38.141-1: Addition of FCC emission limits on US 3.45-3.55 GHz band**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 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:** The document was **not treated**.

[**R4-2112274**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112274.zip) **Draft CR to TS 38.141-1: Addition of FCC emission limits on US 3.45-3.55 GHz band**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 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:** The document was **not treated**.

[**R4-2112822**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112822.zip) **Band n77 issues in the US**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we present solutions to the problem of devices restricted to 3700-3980 MHz in the US. RAN2 aspects are also included (the same contribution is submitted to RAN2#115-e)

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

### 6.2 LTE maintenance and TEI

#### 6.2.1 BS RF requirements

#### 6.2.2 UE RF requirements

**Email discussion summary of [100-e][106] LTE\_Maintenance\_R15\_16, AI 5.2.2.2, AI 6.2.2 – Sanjun Feng**

[**R4-2114706**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114706.zip) **Email discussion summary for [100-e][106] LTE\_Maintenance\_R15\_16**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2114091**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114091.zip) **Draft CR MPR and AMPR for LTE CA 256QAM PC2**

*Type: draftCR For: Approval  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114524**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114524.zip) **draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-14)**

*Type: draftCR For: Endorsement  
 36.101 v14.19.0 CR- rev Cat: F (Rel-14)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114525**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114525.zip) **draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-15)**

*Type: draftCR For: Endorsement  
 36.101 v15.15.0 CR- rev Cat: A (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114526**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114526.zip) **draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-16)**

*Type: draftCR For: Endorsement  
 36.101 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114527**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114527.zip) **draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-17)**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 6.2.3 RRM requirements

##### 6.2.3.1 RRM core requirements

##### 6.2.3.2 RRM performance requirements

#### 6.2.4 Demodulation and CSI requirements

##### 6.2.4.1 UE demodulation requirements

##### 6.2.4.2 CSI requirements

##### 6.2.4.3 BS demodulation requirements

### 6.3 Rel-16 UE feature list maintenance

### 6.4 LS response for WP5D (RP-210747) on recommendations ITU-R M.2070 and ITU -R M.2071 on Unwanted Emissions of IMT-Advanced

## 7 Rel-17 maintenance for both NR and LTE

**Email discussion summary of [100-e][107] NR\_LTE\_Maintenance\_R17, AI 7.2.1, 7.2.2, 7.3.1, 7.3.2, 7.4.1, 7.4.2, 7.5.1, 7.5.2, 7.6.1, 7.6.2 – Dominique Evereare**

[**R4-2114707**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114707.zip) **Email discussion summary for [100-e][107] NR\_LTE\_Maintenance\_R17**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

### 7.1 Introduction of FR2 FWA UE with maximum TRP of 23dBm for n257 and n258

### 7.2 Introduction of NR band n67

#### 7.2.1 UE RF requirements (38.101-1)

#### 7.2.2 BS RF requirements (38.104)

#### 7.2.3 RRM requirements (38.133)

### 7.3 Introduction of NR band n85

#### 7.3.1 UE RF requirements (38.101-1)

#### 7.3.2 BS RF requirements (38.104)

#### 7.3.3 RRM requirements (38.133)

### 7.4 Introduction of NR band n24

#### 7.4.1 UE RF requirements (38.101-1)

[**R4-2112303**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112303.zip) **CR for updates related to NR Band n24**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0888 rev Cat: F (Rel-17)  
  
 Source: Ligado Networks*

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

#### 7.4.2 BS RF requirements (38.104)

#### 7.4.3 RRM requirements (38.133)

### 7.5 High power UE (power class 2) for NR band n34

#### 7.5.1 General

#### 7.5.2 UE RF requirements

### 7.6 Modification of LTE Band 24 specifications to comply with updated regulatory emission limits

#### 7.6.1 UE RF requirements

[**R4-2112307**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112307.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-10)**

*Type: CR For: Agreement  
 36.101 v10.30.0 CR-5801 rev Cat: F (Rel-10)  
  
 Source: Ligado Networks*

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

[**R4-2112308**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112308.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-11)**

*Type: CR For: Agreement  
 36.101 v11.27.0 CR-5802 rev Cat: A (Rel-11)  
  
 Source: Ligado Networks*

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

[**R4-2112309**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112309.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-12)**

*Type: CR For: Agreement  
 36.101 v12.27.0 CR-5803 rev Cat: A (Rel-12)  
  
 Source: Ligado Networks*

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

[**R4-2112310**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112310.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-13)**

*Type: CR For: Agreement  
 36.101 v13.21.0 CR-5804 rev Cat: A (Rel-13)  
  
 Source: Ligado Networks*

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

[**R4-2112311**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112311.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-14)**

*Type: CR For: Agreement  
 36.101 v14.19.0 CR-5805 rev Cat: A (Rel-14)  
  
 Source: Ligado Networks*

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

[**R4-2112312**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112312.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-15)**

*Type: CR For: Agreement  
 36.101 v15.15.0 CR-5806 rev Cat: A (Rel-15)  
  
 Source: Ligado Networks*

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

[**R4-2112313**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112313.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-16)**

*Type: CR For: Agreement  
 36.101 v16.10.0 CR-5807 rev Cat: A (Rel-16)  
  
 Source: Ligado Networks*

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

[**R4-2112314**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112314.zip) **CR for updates related to LTE band 24 in 36.101 (Rel-17)**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5808 rev Cat: A (Rel-17)  
  
 Source: Ligado Networks*

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

#### 7.6.2 BS RF requirements

[**R4-2112305**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112305.zip) **CR to 36.104: Correction to Band 24 requirements**

*Type: CR For: Agreement  
 36.104 v17.2.0 CR-4941 rev Cat: F (Rel-17)  
  
 Source: Ligado Networks*

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

#### 7.6.3 RRM requirements

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

### 8.1 Introduction of lower 6GHz NR unlicensed operation for Europe

**Email discussion summary of [100-e][108] NR\_6GHz\_unlic\_EU, AI 8.1 – Johannes Hejselbaek**

[**R4-2114708**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114708.zip) **Email discussion summary for [100-e][108] NR\_6GHz\_unlic\_EU**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**GTW in 1st round:**

**Issue 1-1: New band or reuse n96**

* Proposals
  + **Option 1:** Re-using already defined band n96, for the frequency range 5945 MHz to 6425 MHz
    - FFS if additional notes and/or clarifications are needed. Regional specific requirements to be included in relevant specifications.
  + **Option 2:** Defining a new band n[xx], for the frequency range 5945 MHz to 6425 MHz
    - On top of specific requirements provided by ECC, the new band shall reuse requirements already defined for n96, where possible.

*Note that selecting any of the options above shall not in any way interfere with regulatory activities and timelines for the 6 GHz range. (As per RAN agreement)*

**Agreement:**

* The same hardware of UE as for n96 may be reused on the frequency range 5945MHz to 6425MHz no matter whether to define a new band or define new NS for the existing n96.
* Nokia will provide draft LS and the group will come back to draft LS on Thursday (August 19) GTW.

**Issue 2-1: Outdoor UEs connecting to the indoor LPI base stations:**

* Proposals
  + **Option 1:** No solution is needed to meet the regulatory requirements.
  + **Option 2:** Consider NW and UE controlled approaches to ensure that a UE (configured with LPI) UL transmission is compliant to the local regulations when it is outdoors

**Discussion:**

Qualcomm: this is something that regulation has recognized. It would be ambiguous regarding indoor and outdoor.

Ericsson: all the co-existence study has been carried out. Some accident outdoor has been counted. We prefer to Option1.

Microsoft: Agree with Ericsson. 2% comes from ITU.

**Agreement:** For outdoor UEs connecting to the indoor LPI base stations, no solution is needed to meet the regulatory requirements in Rel-17.

**Conclusions after 1st round**

**R4-2114752 Draft LS on lower 6GHz NR unlicensed operation for Europe**

*Type: LS out For: Approval  
 Source: Nokia*

**Abstract:**

This contribution provides the LS.

**Discussion:**

**GTW on August 19**

Comments were received on 7.6F blocking characteristics for UE and that re-wording is needed for items with “NOTE” solution in BS table.

**Decision: Return to.**

**Conclusions after 2nd round**

#### 8.1.1 General

[**R4-2113692**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113692.zip) **draft TR 38.849 v0.4.0**

*Type: draft TR For: Agreement  
 38.849 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of agreements and TPs provided at RAN4#99

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

[**R4-2113693**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113693.zip) **On system parameters for the lower 6GHz NR unlicensed operation**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.1.2 Comparison of reusing n96 and defining a new band

[**R4-2112342**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112342.zip) **Band plan for lower 6GHz NR unlicensed operation in EU/CEPT**

*Type: discussion For: Decision  
 Source: Apple, Facebook, Hewlett Packard Enterprise, Skyworks Solutions Inc., Microsoft*

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

[**R4-2113934**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113934.zip) **Comparison of reusing n96 and defining a new band**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

[**R4-2114219**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114219.zip) **NR-U 6 GHz band for Europe from a UE perspective**

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

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

[**R4-2114231**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114231.zip) **6GHz unliscenced band numbering**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Once again go over outr oprion and reasoning on the 2 options for the EU band.

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

[**R4-2114476**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114476.zip) **Band plan for unlicensed operation in 6GHz in Europe**

*Type: discussion For: (not specified)  
 Source: Ericsson GmbH, Eurolab*

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

#### 8.1.3 UE RF requirements

[**R4-2112823**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112823.zip) **RF requirements for a UE supporting a dedicated EU band implemented with a 5925-7125 MHz RF filter**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we propose RF requirements for UEs implementing the 5945-6425 MHz band with a 5925-7125 MHz filter (baseline)

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

[**R4-2113694**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113694.zip) **On UE RF aspects for the lower 6GHz NR unlicensed operation**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.1.4 BS RF requirements

[**R4-2113695**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113695.zip) **On BS RF aspects for the lower 6GHz NR unlicensed operation**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2113935**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113935.zip) **Discussion on BS RF requirements for Europe unlicensed 6GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

[**R4-2113936**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113936.zip) **draft CR for introduction of Europe unlicensed 6GHz.**

*Type: other For: Endorsement  
 Source: ZTE Corporation*

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

#### 8.1.5 Others

[**R4-2114375**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114375.zip) **On LPI and VLP modes for mixed indoor/outdoor scenarios**

*Type: discussion For: Decision  
 Source: Apple*

**Abstract:**

The paper is submitted to the EU/CEPT 6GHz WI, but the considered scenario can occur in other regions.

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

### 8.2 Introduction of operation in full unlicensed band 5925-7125MHz for NR

**Email discussion summary of [100-e][109] NR\_6GHz\_unlic\_full, AI 8.2 –Alexander Sayenko**

[**R4-2114709**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114709.zip) **Email discussion summary for [100-e][109] NR\_6GHz\_unlic\_full**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.2.1 General

[**R4-2112343**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112343.zip) **Work plan for introduction of operation in full unlicensed band 5925-7125MHz for NR**

*Type: Work Plan For: Approval  
 Source: Apple*

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

[**R4-2113065**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113065.zip) **On introduction of operation in full unlicensed band 5925-7125MHz**

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

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

#### 8.2.2 Regulatory requirements and feasibility of re-using existing NS

[**R4-2112344**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112344.zip) **Overview of the 6GHz unlicensed band system and regulatory requirements in Region 2 and Region 3 countries**

*Type: discussion For: Decision  
 Source: Apple*

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

[**R4-2112972**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112972.zip) **Considerations on South Korea’s regulatory requirements in 5925 - 7125 MHz**

*Type: discussion For: Approval  
 Source: LG Electronics Inc.*

**Abstract:**

In this contribution, based on the approved New WI [1], South Korea’s regulatory requirements [2] have been analyzed, and there are some proposals.

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

[**R4-2113066**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113066.zip) **Regulatory requirements for full unlicensed band 5925-7125MHz**

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

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

#### 8.2.3 UE RF requirements

[**R4-2112345**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112345.zip) **A-MPR for the 6GHz unlicensed band in Region 2 and Region 3 countries**

*Type: discussion For: Decision  
 Source: Apple*

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

[**R4-2114220**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114220.zip) **A-MPR for NR-U VLP in 6 GHz for Europe**

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

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

#### 8.2.4 BS RF requirements

### 8.3 Introduction of NR 47 GHz band

#### 8.3.1 UE RF requirements maintenance (38.101-2)

**Email discussion summary of [100-e][110] NR\_47GHz\_Band\_NWM, AI 8.3.1 – Hisashi Onozawa**

[**R4-2114710**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114710.zip) **Email discussion summary for [100-e][10x] NR\_47GHz\_Band\_NWM**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2113733**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113733.zip) **TR 38.847 Introduction of NR Band n262 (47GHz band)**

*Type: draft TR For: Agreement  
 38.847 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Updated TR to capture the work done when specifying the new NR FR2 47GHz band

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

[**R4-2113735**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113735.zip) **TP to TR 38.847 - UE agreements**

*Type: pCR For: Approval  
 38.847 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This TP captures the latest UE RF agreement

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

[**R4-2114056**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114056.zip) **Corrections of n262 UE RF requirements**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0419 rev Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.3.2 BS RF requirements maintenance (38.104)

#### 8.3.3 BS conformance (38.141)

#### 8.3.4 RRM requirements maintenance (38.133)

#### 8.3.5 Demodulation and CSI requirements

##### 8.3.5.1 UE demodulation (38.101-4)

##### 8.3.5.2 BS demodulation (38.104)

### 8.4 Introduction of 900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

#### 8.4.1 General

**Email discussion summary of [100-e][111] RAIL\_900\_1900MHz, AI 8.4.1, 8.4.2, 8.4.4, 8.5, 8.5.1, 8.5.2, 8.5.4 –Ingo Wendler**

[**R4-2114711**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114711.zip) **Email discussion summary for [100-e][111] RAIL\_900\_1900MHz**

*Type: other For: Information  
 Source: Moderator (Union Inter. Chemins de Fer)*

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2112184**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112184.zip) **Skeleton TR 38.853 Introduction of 900MHz NR band for Europe for Rail Mobile Radio (RMR)**

*Type: pCR For: Approval  
 38.853 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Union Inter. Chemins de Fer*

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

[**R4-2113748**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113748.zip) **RMR 900 MHz - General**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses general aspects of the new RMR 900MHz band

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

[**R4-2114370**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114370.zip) **TP to 38.853 on 900MHz RMR RAN4 system parameters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.4.2 UE RF requirements

[**R4-2113750**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113750.zip) **RMR 900 MHz - UE RF**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses UE RF requirements aspects when introducing the new RMR 900MHz band

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

[**R4-2114030**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114030.zip) **Text proposals for RMR 900MHz band**

*Type: discussion For: Approval  
 Source: Huawei Tech.(UK) Co.. Ltd*

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

[**R4-2114369**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114369.zip) **On 900MHz RMR RAN4 UE RF requirements impact due to ECC Decision (20)**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.4.3 BS RF requirements

#### 8.4.4 Others

[**R4-2114409**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114409.zip) **Further discussion on channel arrangement aspects for RMR 900 WI**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

In this contribution provide analysis of the channel arrangement aspects of the RMR900 topic, and related NR-ARFCN implications.

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

### 8.5 Introduction of 1900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

#### 8.5.1 General

**Refer to email discussion summary of [100-e][111] RAIL\_900\_1900MHz, AI 8.4.1, 8.4.2, 8.4.4, 8.5, 8.5.1, 8.5.2, 8.5.4 –Ingo Wendler**

[**R4-2112183**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112183.zip) **Skeleton TR 38.853 Introduction of 900MHz NR band for Europe for Rail Mobile Radio (RMR)**

*Type: pCR For: Approval  
 38.852 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Union Inter. Chemins de Fer*

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

[**R4-2113751**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113751.zip) **RMR 1900 MHz - General**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses general aspects of the new RMR 1900MHz band

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

[**R4-2114373**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114373.zip) **TP to 38.852 on 1900MHz RMR RAN4 system parameters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.5.2 UE RF requirements

[**R4-2113753**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113753.zip) **RMR 1900 MHz - UE RF**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses UE RF requirements aspects when introducing the new RMR 1900MHz band

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

[**R4-2114372**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114372.zip) **On 1900MHz RMR RAN4 UE RF requirements impact due to ECC Decision (20)**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.5.3 BS RF requirements

#### 8.5.4 Others

### 8.6 Issues arising from basket WIs but not subject to block approval

**Email discussion summary of [100-e][112] NR\_Baskets\_Part\_1, AI 8.6 –Dominique Brunel**

[**R4-2114712**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114712.zip) **Email discussion summary for [100-e][112] NR\_Baskets\_Part\_1**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2112352**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112352.zip) **CR for TS 38.101-1: Correcting CA frequency setup for 2UL interband reference sensitivity**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0907 rev Cat: F (Rel-17)  
  
 Source: Apple*

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

[**R4-2112353**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112353.zip) **CR for TS 38.101-3: Correcting DC frequency setup for 2UL interband reference sensitivity**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0635 rev Cat: F (Rel-17)  
  
 Source: Apple*

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

#### 8.6.1 UE RF requirements

[**R4-2111731**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111731.zip) **DC\_8A\_20A\_n28A MSD**

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

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

[**R4-2112017**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112017.zip) **Further discussion on MSD due to IMD5 for CA\_n41C-n66A**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

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

[**R4-2112018**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112018.zip) **Further discussion on MSD due to UL IMD for DC\_8A-20A\_n28A**

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

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

[**R4-2112358**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112358.zip) **CR for TS 38.101-1 Rel-17: Applying n40 and n41 spurious emissions on CA**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0908 rev Cat: F (Rel-17)  
  
 Source: Apple*

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

[**R4-2112721**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112721.zip) **Optimization to NR FR2 configurations for intra-band non-contiguous CA**

*Type: discussion For: Approval  
 Source: ZTE Corporation*

**Abstract:**

In this paper, we’d like to share our views on possible optimization for intra-band non-contiguous CA.

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

[**R4-2112722**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112722.zip) **CR to TS 38.101-2 on corrections to intra-band non-contiguous CA**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0414 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This CR is to remove the sub-block columns for the configuration table for intra-band non-contiguous CA.

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

[**R4-2112723**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112723.zip) **On configurations for SUL band combination with inter-band CA**

*Type: discussion For: Approval  
 Source: ZTE Corporation*

**Abstract:**

In this paper, we discuss the possible optimization to the configuration for SUL band combination with inter-band CA.

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

[**R4-2112724**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112724.zip) **CR to TS 38.101-1 on corrections to configuration for SUL bands**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0895 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This CR is to correct the configurations for SUL bands

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

[**R4-2112910**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112910.zip) **CR to TS38.101-1: Inter-band NR CA Tx requirement including intra-band non-contiguous CA and combinations of intra-band and inter-band CA UL configuration**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0897 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113344**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113344.zip) **Discussion on UE RF requirements for DC\_20-38\_n8**

*Type: discussion For: (not specified)  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a draft text proposal for TR 37.717-21-11 to include DC\_20-38\_n8. Since this is a combination with two low bands and IMD3 issues, discussion is required to determine the appropriate UE RF requirements.

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

[**R4-2113404**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113404.zip) **Discussion on DC\_8A-20A\_n28A**

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

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

[**R4-2113405**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113405.zip) **TP for TR 37.717-21-11: DC\_8A-20A\_n28A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113573**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113573.zip) **Rel-17 draft CR 38.101-1, band combination corrections**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Changes not applicable to Rel-16

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

[**R4-2113574**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113574.zip) **Rel-17 draft CR 38.101-2, band combination corrections**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Changes not applicable to Rel-16

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

[**R4-2113575**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113575.zip) **Rel-17 draft CR 38.101-3, band combination corrections**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Changes not applicable to Rel-16

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

[**R4-2114579**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114579.zip) **CA\_n5B MSD Measurements**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document proposed MSD levels for CA\_n5B dual uplink and single UL operation.

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

[**R4-2114582**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114582.zip) **DC\_8-20\_n28 and other LB-LB-LB RF-FE challenges**

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

**Abstract:**

This document summarizes RF-FE challenges associated with LB-LB-LB combinations and proposes to restrict such combinations to large form factor devices only, such as FWA.

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

[**R4-2112304**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112304.zip) **NRU ULCA including wideband operation**

*Type: discussion For: Approval  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we discuss the need to reduce the number of NRU UL CA cases to make theMPR/ A-MPR cases manageable

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

#### 8.6.2 Feasibility study of defining “low MSD” for CA and DC

[**R4-2112381**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112381.zip) **Views on defining “low MSD” for CA and DC**

*Type: other For: Approval  
 Source: Apple*

**Decision: Revised to** [**R4-2114700**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114700.zip) **(from** [**R4-2112381**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112381.zip)**).**

[**R4-2114700**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114700.zip) **Views on defining “low MSD” for CA and DC**

*Type: other For: Approval  
 Source: Apple*

**Decision: Return to.**

[**R4-2112572**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112572.zip) **Discussion on low MSD feasibility**

*Type: discussion For: Discussion  
 Source: Samsung*

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

[**R4-2112587**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112587.zip) **Views on Low MSD indicator for IMD**

*Type: discussion For: Discussion  
 Source: SoftBank Corp.*

**Abstract:**

Consideration of Low MSD, comparing with MSD assumption, is shown.

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

[**R4-2113015**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113015.zip) **Discussion on "Low MSD" for CA and DC**

*Type: discussion For: Discussion  
 Source: vivo*

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

[**R4-2113906**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113906.zip) **R17 MSD improvement**

*Type: discussion For: Approval  
 Source: OPPO*

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

[**R4-2114223**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114223.zip) **Signaling low MSD for CA and DC combinations**

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

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

[**R4-2114567**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114567.zip) **Discussion on the feasibility of MSD improvement**

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

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

[**R4-2114570**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114570.zip) **Discussion on defining ”low MSD” for NR CA and DC band combinations**

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

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

[**R4-2114578**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114578.zip) **Selection Criteria for CA/DC candidates eligible to improved MSD**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document proposes criteria to select CA/DC combinations eligible to re-visiting MSD levels.

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

#### 8.6.3 Others

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

**Email discussion summary of [100-e][113] NR\_Baskets\_Part\_2, AI 8.7, 8.14, 8.15, 8.16, 8.17, 8.18 –Iwo Angelow**

[**R4-2114713**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114713.zip) **Email discussion summary for [100-e][113] NR\_Baskets\_Part\_2**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions:**

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

[**R4-2113552**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113552.zip) **Revised WID NR Intra-band Rel-17**

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

**Abstract:**

Revised WID NR Intra-band Rel-17

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

[**R4-2113556**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113556.zip) **CR 38.101-1 new combinations Rel-17 NR Intra-band**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0903 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-1 new combinations Rel-17 NR Intra-band

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

[**R4-2113557**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113557.zip) **CR 38.101-2 new combinations Rel-17 NR Intra-band**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0418 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-2 new combinations Rel-17 NR Intra-band

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

[**R4-2113562**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113562.zip) **TR 38.717-01-01 v0.6.0 Rel-17 NR Intra-band**

*Type: draft TR For: Endorsement  
 38.717-01-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 38.717-01-01 v0.6.0 Rel-17 NR Intra-band

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

#### 8.7.2 UE RF requirements for FR1

[**R4-2112790**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112790.zip) **Addition of missing CA Band and removal of bracket for CA\_n71(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Dish*

**Decision: Revised to R4-2114812 (from R4-2112790).**

**[R4-2114812](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112790.zip) Addition of missing CA Band and removal of bracket for CA\_n71(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Dish*

**Decision: Return to.**

#### 8.7.3 UE RF requirements for FR2

[**R4-2112795**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112795.zip) **DraftCR 38.101-2: Addition of uplink CA for CA\_n258 configurations**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

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

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

**Email discussion summary of [100-e][114] NR\_Baskets\_Part\_3, AI 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.19, 8.20, 8.21, 8.22, 8.23, 8.24 – Johannes Hejselbaek**

[**R4-2114714**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114714.zip) **Email discussion summary for [100-e][114] NR\_Baskets\_Part\_3**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions:**

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

[**R4-2112940**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112940.zip) **Revised WID on Rel-17 NR Inter-band CA\_DC xUL\_2DL (x=1,2)**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

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

[**R4-2112941**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112941.zip) **Big CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0898 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112942**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112942.zip) **Big CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-2**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0416 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112943**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112943.zip) **Big CR to reflect the completed NR inter band CA DC combinations for 2 bands DL with up to 2 bands UL into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0621 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2114089**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114089.zip) **TR 38.717-02-01 v0.6.0**

*Type: draft TR For: Discussion  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

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

#### 8.8.2 NR inter band CA requirements without any FR2 band(s)

[**R4-2111773**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111773.zip) **DraftCR 38.101-1: Addition of CA\_n2(2A)-n14A, CA\_n14A-n66(2A), and CA\_n14A-n66(3A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2114825 (from R4-2111773).**

[**R4-2114825**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111773.zip) **DraftCR 38.101-1: Addition of CA\_n2(2A)-n14A, CA\_n14A-n66(2A), and CA\_n14A-n66(3A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Return to.**

[**R4-2111794**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111794.zip) **DraftCR 38.101-1: Addition of DC\_n12-n77 and n71-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular Corporation*

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

[**R4-2111795**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111795.zip) **TP to TR 38.717-02-01: CA\_n12-n25**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular Corporation*

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

[**R4-2111796**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111796.zip) **TP to TR 38.717-02-01: CA\_n12-n48**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular Corporation*

**Decision: Revised to R4-2114829 (from R4-2111796).**

[**R4-2114829**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111796.zip) **TP to TR 38.717-02-01: CA\_n12-n48**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular Corporation*

**Decision: Return to.**

[**R4-2111797**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111797.zip) **TP to TR 38.717-02-01: CA\_n12-n66 BCS1**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular Corporation*

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

[**R4-2111798**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111798.zip) **TP to TR 38.717-02-01: CA\_n12-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular Corporation*

**Decision: Revised to R4-2114830 (from R4-2111798).**

[**R4-2114830**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111798.zip) **TP to TR 38.717-02-01: CA\_n12-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, US Cellular Corporation*

**Decision: Return to.**

[**R4-2111799**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111799.zip) **DraftCR 38.101-1: Addition of DC\_n1-n3**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111800**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111800.zip) **DraftCR 38.101-1: Addition of CA\_n3-n7 BCS 1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111801**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111801.zip) **DraftCR 38.101-1: Addition of CA\_n3-n28 BCS 1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111802**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111802.zip) **DraftCR 38.101-1: Addition of CA\_n3-n78(2A) BCS 1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111836**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111836.zip) **TP to TR 38.717.02-01 for CA\_n48-n96 and DC\_n48-n96**

*Type: Work Plan For: Approval  
 Source: Charter Communications, Inc*

**Decision: Revised to R4-2114834 (from R4-2111836).**

[**R4-2114834**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111836.zip) **TP to TR 38.717.02-01 for CA\_n48-n96 and DC\_n48-n96**

*Type: Work Plan For: Approval  
 Source: Charter Communications, Inc*

**Decision: Return to.**

[**R4-2112032**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112032.zip) **TP to TR 38.717-02-01: CA\_n48-n71 and DC\_n48-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CableLabs*

**Decision: Revised to R4-2114835 (from R4-2112032).**

[**R4-2114835**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112032.zip) **TP to TR 38.717-02-01: CA\_n48-n71 and DC\_n48-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CableLabs*

**Decision: Return to.**

[**R4-2112054**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112054.zip) **Draft CR for TS 38.101-1: Addition of the missing note for DC\_n77-n79 and the maximum output power for some DC conigurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112154**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112154.zip) **Draft CR for 38.101-1 CA\_n1A-n77(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112159**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112159.zip) **TP for TR 38.717-02-01 CA\_n8A-n77A and CA\_n8A-n77(2A)**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

**Decision: Revised to R4-2114841 (from R4-2112159).**

[**R4-2114841**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112159.zip) **TP for TR 38.717-02-01 CA\_n8A-n77A and CA\_n8A-n77(2A)**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

**Decision: Return to.**

[**R4-2112222**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112222.zip) **add CA combinations with n46 & n48**

*Type: draftCR For: Approval  
 38.101-1 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Charter Communications, Inc*

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

[**R4-2112306**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112306.zip) **Draft CR to 38.101-1 Correction to Reference Sensitivity Exceptions for CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: AT&T, Verizon*

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

[**R4-2112440**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112440.zip) **R17 draft CR for 38.101-1 to correct some errors for 2 bands NR CA (CAT F)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Samsung*

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

[**R4-2112442**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112442.zip) **Draft CR for 38.101-1 to introduce new configurations of CA\_n3-n77, CA\_n28-n77,CA\_n41-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung,KDDI*

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

[**R4-2112463**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112463.zip) **Draft CR for 38.101-1 to introduce BCS1 for CA\_n2A-n78A, CA\_n2A-n78(2A), CA\_n5A-n77(2A),CA\_n5A-n77C, CA\_n5A-n78C**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Telus, Bell mobility*

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

[**R4-2112652**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112652.zip) **DraftCR for NRCA 2BDL-xBULcombinations**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Verizon, Samsung*

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

[**R4-2112655**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112655.zip) **TP for TR 38.717-02-01 for CA\_n48-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision: Revised to R4-2114842 (from R4-2112655).**

[**R4-2114842**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112655.zip) **TP for TR 38.717-02-01 for CA\_n48-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision: Return to.**

[**R4-2112741**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112741.zip) **TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n1-n5**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n1-n5

**Decision: Revised to R4-2114844 (from R4-2112741).**

[**R4-2114844**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112741.zip) **TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n1-n5**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n1-n5

**Decision: Return to.**

[**R4-2112742**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112742.zip) **draft CR 38.101-1 to include CA\_n1A-n7B configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38.101-1 to include CA\_n1A-n7B configurations

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

[**R4-2112743**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112743.zip) **TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n3-n5**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n3-n5

**Decision: Revised to R4-2114845 (from R4-2112743).**

[**R4-2114845**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112743.zip) **TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n3-n5**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n3-n5

**Decision: Return to.**

[**R4-2112758**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112758.zip) **draft CR 38.101-1 to include CA\_n25-n71B CA\_n66A-n71B CA\_n41C-n71(2A) CA\_n41(2A)-n71(2A) configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, T-Mobile USA*

**Abstract:**

draft CR 38.101-1 to include CA\_n25-n71B CA\_n66A-n71B CA\_n41C-n71(2A) CA\_n41(2A)-n71(2A) configurations

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

[**R4-2112860**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112860.zip) **Draft CR to TS38.101-1[R17] Introduction of CA\_n28A-n41C**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2113054**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113054.zip) **DraftCR for 38.101-1: CA\_n38A-n66(2A) and CA\_n38A-n78A BCS1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Revised to R4-2114848 (from R4-2113054).**

[**R4-2114848**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113054.zip) **DraftCR for 38.101-1: CA\_n38A-n66(2A) and CA\_n38A-n78A BCS1**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Return to.**

[**R4-2113577**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113577.zip) **draft CR 38.101-1 to include new 2DL CA configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38.101-1 to include new 2DL CA configurations

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

[**R4-2113578**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113578.zip) **TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n5-n7**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n5-n7

**Decision: Revised to R4-2114851 (from R4-2113578).**

[**R4-2114851**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113578.zip) **TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n5-n7**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-02-01 to include new DL and UL configurations for CA\_n5-n7

**Decision: Return to.**

[**R4-2113594**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113594.zip) **draft CR 38.101-1 to include new 2DL CA and DC configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

draft CR 38.101-1 to include new 2DL CA and DC configurations

**Decision: Revised to R4-2114856 (from R4-2113594).**

[**R4-2114856**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113594.zip) **draft CR 38.101-1 to include new 2DL CA and DC configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

draft CR 38.101-1 to include new 2DL CA and DC configurations

**Decision: Return to.**

[**R4-2113696**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113696.zip) **draftCR to introduce 40B to 2 bands combinations already in 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113713**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113713.zip) **TP to TR 38.717-02-01 Addition of CA\_n26-n66**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114860 (from R4-2113713).**

[**R4-2114860**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113713.zip) **TP to TR 38.717-02-01 Addition of CA\_n26-n66**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2113714**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113714.zip) **TP to TR 38.717-02-01 Addition of CA\_n26-n70**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114861 (from R4-2113714).**

[**R4-2114861**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113714.zip) **TP to TR 38.717-02-01 Addition of CA\_n26-n70**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2113715**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113715.zip) **TP to TR 38.717-02-01 Addition of CA\_n48-n66**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114862 (from R4-2113715).**

[**R4-2114862**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113715.zip) **TP to TR 38.717-02-01 Addition of CA\_n48-n66**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2113716**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113716.zip) **TP to TR 38.717-02-01 Addition of CA\_n48-n70**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114863 (from R4-2113716).**

[**R4-2114863**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113716.zip) **TP to TR 38.717-02-01 Addition of CA\_n48-n70**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2113717**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113717.zip) **TP to TR 38.717-02-01 Addition of CA\_n48-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113718**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113718.zip) **TP to TR 38.717-02-01 Addition of CA\_n70-n712A**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113719**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113719.zip) **TP to TR 38.717-02-01 Addition of CA\_n662A-n712A**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113720**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113720.zip) **TP to TR 38.717-02-01 Addition of DC\_n48-n66**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113721**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113721.zip) **TP to TR 38.717-02-01 Addition of DC\_n48-n70**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113722**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113722.zip) **TP to TR 38.717-02-01 Addition of DC\_n48-n71**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2114007**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114007.zip) **TP to TR 38.717-02-01 for CA\_n46-n78 and DC\_n46-n78**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, BT*

**Decision: Revised to R4-2114868 (from R4-2114007).**

[**R4-2114868**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114007.zip) **TP to TR 38.717-02-01 for CA\_n46-n78 and DC\_n46-n78**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, BT*

**Decision: Return to.**

[**R4-2114008**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114008.zip) **TP to TR 38.717-02-01 for CA\_n28-n46 and DC\_n28-n46**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, BT*

**Decision: Revised to** **R4-2114869 (from R4-2114008).**

**[R4-2114869](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114008.zip) TP to TR 38.717-02-01 for CA\_n28-n46 and DC\_n28-n46**

*Type: pCR For: Approval  
 38.717-02-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, BT*

**Decision: Return to.**

#### 8.8.3 NR inter band CA requirements with at least one FR2 band

[**R4-2112157**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112157.zip) **Draft CR for 38.101-3 CA\_n3A-n257JKLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112158**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112158.zip) **Draft CR for 38.101-3 CA\_n8A-n257GHIJKLMA**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112443**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112443.zip) **Draft CR for 38.101-3 to introduce new configurations of CA\_n78-n257**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung,KDDI*

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

[**R4-2112462**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112462.zip) **Draft CR for 38.101-3 to introduce new configurations of DC\_n77-n257**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112636**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112636.zip) **draft CR for DC\_n1A-n257J/K/L/M with uplink DC support up to DC\_n1A-n257K**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

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

[**R4-2112757**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112757.zip) **draft CR 38.101-3 to include new UL CA configurations DC\_n78A-n258GHI**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38.101-3 to include new UL CA configurations DC\_n78A-n258GHI

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

[**R4-2112796**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112796.zip) **DraftCR 38.101-3: Addition of CA\_n25-n258 configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

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

[**R4-2112797**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112797.zip) **DraftCR 38.101-3: Addition of CA\_n41-n258 configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

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

[**R4-2112798**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112798.zip) **DraftCR 38.101-3: Addition of CA\_n66-n258 configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

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

[**R4-2112799**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112799.zip) **DraftCR 38.101-3: Addition of DC\_n25-n258 configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

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

[**R4-2112800**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112800.zip) **DraftCR 38.101-3: Addition of DC\_n41-n258 configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

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

[**R4-2112801**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112801.zip) **DraftCR 38.101-3: Addition of DC\_n66-n258 configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, T-Mobile USA*

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

[**R4-2112920**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112920.zip) **Draft CR to TS38.101-3 Introduction of CA/DC\_n79-n258**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

### 8.9 NR Inter-band Carrier Aggregation for 3 bands DL with 1 band UL

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

#### 8.9.2 UE RF requirements

[**R4-2111774**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111774.zip) **TP to TR 38.717-03-01: Addition of CA\_n2-n14-n30**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2114826 (from R4-2111774).**

[**R4-2114826**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111774.zip) **TP to TR 38.717-03-01: Addition of CA\_n2-n14-n30**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Return to.**

[**R4-2111775**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111775.zip) **TP to TR 38.717-03-01: Addition of CA\_n2-n14-n66**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2114827 (from R4-2111775).**

[**R4-2114827**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111775.zip) **TP to TR 38.717-03-01: Addition of CA\_n2-n14-n66**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Return to.**

[**R4-2111776**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111776.zip) **TP to TR 38.717-03-01: Addition of CA\_n14-n30-n66**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2114828 (from R4-2111776).**

[**R4-2114828**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111776.zip) **TP to TR 38.717-03-01: Addition of CA\_n14-n30-n66**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Return to.**

[**R4-2112155**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112155.zip) **Draft CR for 38.101-3 CA\_n1A-n77-n257JKLM and CA\_n1A-n77(2A)-n257GHIJKLMA**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112156**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112156.zip) **Draft CR for 38.101-3 CA\_n3A-n77-n257JKLM and CA\_n3A-n77(2A)-n257JKLM**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112160**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112160.zip) **TP for TR 38.717-03-01 CA\_n1A-n3A-n8A**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112161**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112161.zip) **TP for TR 38.717-03-01 CA\_n1A-n3A-n77A and CA\_n1A-n3A-n77(2A)**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112162**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112162.zip) **TP for TR 38.717-03-01 CA\_n1A-n3A-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112163**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112163.zip) **TP for TR 38.717-03-01 CA\_n1A-n8A-n77A and CA\_n1A-n8A-n77(2A)**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112164**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112164.zip) **TP for TR 38.717-03-01 CA\_n1A-n8A-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112165**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112165.zip) **TP for TR 38.717-03-01 CA\_n3A-n8A-n77A and CA\_n3A-n8A-n77(2A)**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112166**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112166.zip) **TP for TR 38.717-03-01 CA\_n3A-n8A-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112167**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112167.zip) **TP for TR 38.717-03-01 CA\_n8A-n77A-n257GHIJKLMA and CA\_n8A-n77(2A)-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112464**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112464.zip) **Draft CR for 38.101-1 to introduce new configurations to CA\_n41-n66-n71 and CA\_n41-n71-n77 with 1UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Telus, Bell mobility*

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

[**R4-2112468**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112468.zip) **TP for TR 38.717-03-01 CA\_n41-n71-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Telus, Bell mobility*

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

[**R4-2112661**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112661.zip) **TP for TR 38.717-03-01 for CA\_n48-n66-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112662**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112662.zip) **TP for TR 38.717-03-01 for CA\_n5-n48-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112663**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112663.zip) **TP for TR 38.717-03-01 for CA\_n5-n48-n66**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112664**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112664.zip) **TP for TR 38.717-03-01 for CA\_n2-n48-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112665**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112665.zip) **TP for TR 38.717-03-01 for CA\_n2-n48-n66**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112666**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112666.zip) **TP for TR 38.717-03-01 for CA\_n2A-n5A-n66A**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112667**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112667.zip) **TP for TR 38.717-03-01 for CA\_n2-n5-n48**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112744**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112744.zip) **TP for TR 38.717-03-01 to include CA\_n1-n3-n5**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-01 to include CA\_n1-n3-n5

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

[**R4-2112745**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112745.zip) **TP for TR 38.717-03-01 to include CA\_n1-n5-n7**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-01 to include CA\_n1-n5-n7

**Decision: Revised to R4-2114846 (from R4-2112745).**

[**R4-2114846**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112745.zip) **TP for TR 38.717-03-01 to include CA\_n1-n5-n7**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-01 to include CA\_n1-n5-n7

**Decision: Return to.**

[**R4-2112746**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112746.zip) **TP for TR 38.717-03-01 to include CA\_n1-n5-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-01 to include CA\_n1-n5-n78

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

[**R4-2112858**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112858.zip) **TP for TR38.717-03-01\_CA\_n28A-n41A-n79A**

*Type: pCR For: Approval  
 38.717-03-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2112938**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112938.zip) **TP for TR38.717-03-01\_CA\_n40A-n41A-n258A**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113058**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113058.zip) **TP for TR 38.717-03-01: CA\_n25-n38-n66**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113059**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113059.zip) **TP for TR 38.717-03-01: CA\_n66A-n77A-n260A**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113167**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113167.zip) **TP for TR 38.717-03-01 CA\_n41-n71-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Ericsson,Telus, Bell mobility*

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

[**R4-2113580**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113580.zip) **TP for TR 38.717-03-01 to include CA\_n3-n5-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-01 to include CA\_n3-n5-n78

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

[**R4-2113601**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113601.zip) **TP for TR 38.717-03-01 to include CA\_n25-n41-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-03-01 to include CA\_n25-n41-n78

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

[**R4-2113604**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113604.zip) **TP for TR 38.717-03-01 to include CA\_n41-n66-n78**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-03-01 to include CA\_n41-n66-n78

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

[**R4-2113697**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113697.zip) **draftCR to introduce 40B to 3 bands combinations already in 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113698**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113698.zip) **TP to TR 38.717-03-01 Addition of CA\_n1A-n28A-n40**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113723**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113723.zip) **TP to TR 38.717-03-01 Addition of CA\_n26\_n66\_n70**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113724**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113724.zip) **TP to TR 38.717-03-01 Addition of CA\_n48\_n66\_n70**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113725**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113725.zip) **TP to TR 38.717-03-01 Addition of CA\_n48\_n66\_n71**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113726**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113726.zip) **TP to TR 38.717-03-01 Addition of CA\_n48-n70-n71**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113727**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113727.zip) **TP to TR 38.717-03-01 Addition of CA\_n66-n70-n71**

*Type: pCR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

### 8.10 NR Inter-band Carrier Aggregation for 4 bands DL with 1 band UL

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

[**R4-2113554**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113554.zip) **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:** The document was **not treated**.

[**R4-2113559**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113559.zip) **CR 38.101-1 new combinations NR Inter-band 4 bands CA**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0904 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-1 new combinations NR Inter-band 4 bands CA

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

[**R4-2113560**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113560.zip) **CR 38.101-3 new combinations NR Inter-band 4 bands CA**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0628 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-3 new combinations NR Inter-band 4 bands CA

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

[**R4-2113564**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113564.zip) **TR 38.717-04-01 v0.6.0 Rel-17 NR Inter-band 4 bands CA**

*Type: draft TR For: Endorsement  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 38.717-04-01 v0.6.0 Rel-17 NR Inter-band 4 bands CA

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

#### 8.10.2 UE RF requirements

[**R4-2111780**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111780.zip) **TP to TR 38.717-04-01: Addition of CA\_n2-n5-n30-n66**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111781**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111781.zip) **TP to TR 38.717-04-01: Addition of CA\_n2-n14-n30-n66**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2112062**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112062.zip) **TP for TR 38.717-04-01: NR CA\_n3-n28-n77-n79**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112063**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112063.zip) **TP for TR 38.717-04-01: NR CA\_n3-n28-n79-n257**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112064**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112064.zip) **TP for TR 38.717-04-01: NR CA\_n3-n77-n79-n257**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112065**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112065.zip) **TP for TR 38.717-04-01: NR CA\_n28-n77-n79-n257**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112168**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112168.zip) **TP for TR 38.717-04-01 CA\_n1A-n3A-n8A-n77A and CA\_n1A-n3A-n8A-n77(2A)**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112169**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112169.zip) **TP for TR 38.717-04-01 CA\_n1A-n3A-n8A-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112170**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112170.zip) **TP for TR 38.717-04-01 CA\_n1A-n3A-n77A-n257GHIJKLMA and CA\_n1A-n3A-n77(2A)-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112171**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112171.zip) **TP for TR 38.717-04-01 CA\_n1A-n8A-n77A-n257GHIJKLMA and CA\_n1A-n8A-n77(2A)-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112172**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112172.zip) **TP for TR 38.717-04-01 CA\_n3A-n8A-n77A-n257GHIJKLMA and CA\_n3A-n8A-n77(2A)-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

[**R4-2112466**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112466.zip) **Draft CR for 38.101-1 to introduce new configurations to CA\_n41-n66-n71-n77 with 1UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Telus, Bell mobility*

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

[**R4-2112469**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112469.zip) **TP for TR 38.717-04-01 CA\_n41-n66-n71-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Telus, Bell mobility*

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

[**R4-2113168**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113168.zip) **TP for TR 38.717-04-01 CA\_n41-n66-n71-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Ericsson,Telus, Bell mobility*

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

[**R4-2113588**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113588.zip) **TP for TR 38.717-04-01 to include CA\_n1-n3-n5-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-01 to include CA\_n1-n3-n5-n78

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

[**R4-2113590**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113590.zip) **TP for TR 38.717-04-01 to include CA\_n1-n5-n7-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-01 to include CA\_n1-n5-n7-n78

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

[**R4-2113597**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113597.zip) **TP for TR 38.717-04-01 to include CA\_n1-n7-n28-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

TP for TR 38.717-04-01 to include CA\_n1-n7-n28-n78

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

[**R4-2113607**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113607.zip) **TP for TR 38.717-04-01 to include CA\_n25-n41-n66-n78**

*Type: pCR For: Approval  
 38.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-04-01 to include CA\_n25-n41-n66-n78

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

### 8.11 NR Inter-band Carrier Aggregation/Dual connectivity for 3 bands DL with 2 bands UL

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

[**R4-2112944**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112944.zip) **Revised WID on Rel-17 NR Inter-band Carrier AggregationDual Connectivity for 3 bands DL with 2 bands UL**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

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

[**R4-2112945**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112945.zip) **Big CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0899 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112946**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112946.zip) **Big CR to reflect the completed NR inter band CA DC combinations for 3 bands DL with 2 bands UL into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0622 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2114090**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114090.zip) **TR 38.717-03-02 v0.6.0**

*Type: draft TR For: Discussion  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

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

#### 8.11.2 UE RF requirements

[**R4-2111777**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111777.zip) **TP to TR 38.717-03-02: Addition of CA\_n2-n14-n30**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111778**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111778.zip) **TP to TR 38.717-03-02: Addition of CA\_n2-n14-n66**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111779**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111779.zip) **TP to TR 38.717-03-02: Addition of CA\_n14-n30-n66**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111803**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111803.zip) **TP to TR 38.717-03-02: Addition of CA\_n1-n3-n7**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

**Decision: Revised to R4-2114831 (from R4-2111803).**

[**R4-2114831**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111803.zip) **TP to TR 38.717-03-02: Addition of CA\_n1-n3-n7**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

**Decision: Return to.**

[**R4-2111804**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111804.zip) **TP to TR 38.717-03-02: Addition of CA\_n1-n3-n28**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

**Decision: Revised to R4-2114832 (from R4-2111804).**

[**R4-2114832**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111804.zip) **TP to TR 38.717-03-02: Addition of CA\_n1-n3-n28**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

**Decision: Return to.**

[**R4-2111805**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111805.zip) **DraftCR 38.101-1: Addition of CA\_n1-n3-n78 BCS configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111806**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111806.zip) **DraftCR 38.101-1: Addition of DC\_n1-n3-n78**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111807**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111807.zip) **TP to TR 38.717-03-02: Addition of CA\_n3-n7-n28**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

**Decision: Revised to R4-2114833 (from R4-2111807).**

[**R4-2114833**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111807.zip) **TP to TR 38.717-03-02: Addition of CA\_n3-n7-n28**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

**Decision: Return to.**

[**R4-2111808**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111808.zip) **TP to TR 38.717-03-02: Addition of CA\_n3-n7-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111809**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111809.zip) **DraftCR 38.101-1: Addition of CA\_n3-n28-n78 BCS configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2112060**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112060.zip) **TP for TR 38.717-03-02: CA\_n3-n77-n79**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112061**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112061.zip) **Draft CR for TS 38.101-1: Support of DC\_n3-n28-n79 and DC\_n28-n77-n79**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112066**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112066.zip) **Draft CR for TS 38.101-3: Support of DC\_n3-n79-n257 and DC\_n77-n79-n257**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112441**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112441.zip) **R17 draft CR for 38.101-1 to correct some errors for 3 bands NR CA (CAT F)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Samsung*

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

[**R4-2112444**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112444.zip) **Draft CR for 38.101-1 to introduce new BCS to CA\_n3A-n28A-n78A and CA\_n3A-n28A-n78(2A)**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung,KDDI*

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

[**R4-2112465**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112465.zip) **Draft CR for 38.101-1 to introduce new configurations to CA\_n41-n66-n71 and CA\_n41-n71-n77 with 2UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Telus, Bell mobility*

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

[**R4-2112747**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112747.zip) **draft CR 38.101-1 to include CA\_n1A-n7B-n78A and CA\_n1A-n7B-n28A configurations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38.101-1 to include CA\_n1A-n7B-n78A and CA\_n1A-n7B-n28A configurations

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

[**R4-2112748**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112748.zip) **TP for TR 38.717-03-02 to include CA\_n1A-n3A-n28A**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n1A-n3A-n28A

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

[**R4-2112749**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112749.zip) **TP for TR 38.717-03-02 to include CA\_n1A-n5A-n78A**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n1A-n5A-n78A

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

[**R4-2112750**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112750.zip) **TP for TR 38.717-03-02 to include CA\_n1A-n28A-n78A**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n1A-n28A-n78A

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

[**R4-2112751**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112751.zip) **TP for TR 38.717-03-02 to include CA\_n1-n3-n5**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n1-n3-n5

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

[**R4-2112752**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112752.zip) **TP for TR 38.717-03-02 to include CA\_n1-n3-n7**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n1-n3-n7

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

[**R4-2112753**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112753.zip) **TP for TR 38.717-03-02 to include CA\_n1-n5-n7**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n1-n5-n7

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

[**R4-2112803**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112803.zip) **TP to TR 38.717-03-02: CA\_n1-n28-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

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

[**R4-2112859**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112859.zip) **TP for TR38.717-03-02\_CA\_n28A-n41A-n79A**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2112919**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112919.zip) **Draft CR to TS38.101-1 add missing configurations of CA\_n25A-n41(2A)-n71A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation, T-Mobile USA*

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

[**R4-2112939**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112939.zip) **TP for TR38.717-03-02\_CA\_n40A-n41A-n258A**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113055**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113055.zip) **DraftCR for 38.101-1 to add additional combinations for CA\_n7-n66-n78**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113056**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113056.zip) **DraftCR for 38.101-1: CA\_n66-n71-n77**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113057**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113057.zip) **TP for TR 38.717-03-02: CA\_n25-n38-n66**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113576**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113576.zip) **draft CR 38.101-3 to include new configurations for CA\_n7-n78-n258**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR 38.101-3 to include new configurations for CA\_n7-n78-n258

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

[**R4-2113579**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113579.zip) **TP for TR 38.717-03-02 to include UL for CA\_n3-n5-n7**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include UL for CA\_n3-n5-n7

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

[**R4-2113581**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113581.zip) **TP for TR 38.717-03-02 to include CA\_n3-n5-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n3-n5-n78

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

[**R4-2113582**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113582.zip) **TP for TR 38.717-03-02 to include CA\_n3-n7-n28**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n3-n7-n28

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

[**R4-2113583**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113583.zip) **TP for TR 38.717-03-02 to include UL for CA\_n3-n7-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include UL for CA\_n3-n7-n78

**Decision: Revised to R4-2114852 (from R4-2113583).**

[**R4-2114852**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113583.zip) **TP for TR 38.717-03-02 to include UL for CA\_n3-n7-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include UL for CA\_n3-n7-n78

**Decision: Return to.**

[**R4-2113584**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113584.zip) **draft CR to add n3-n28 as UL and to add BCS1 for CA\_n3A-n28A-n78A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR to add n3-n28 as UL and to add BCS1 for CA\_n3A-n28A-n78A

**Decision: Revised to R4-2114853 (from R4-2113584).**

[**R4-2114853**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113584.zip) **draft CR to add n3-n28 as UL and to add BCS1 for CA\_n3A-n28A-n78A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

draft CR to add n3-n28 as UL and to add BCS1 for CA\_n3A-n28A-n78A

**Decision: Return to.**

[**R4-2113585**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113585.zip) **TP for TR 38.717-03-02 to include UL for CA\_n5-n7-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include UL for CA\_n5-n7-n78

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

[**R4-2113586**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113586.zip) **TP for TR 38.717-03-02 to include CA\_n7-n28-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n7-n28-n78

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

[**R4-2113595**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113595.zip) **draft CR 38.101-1 to include new BCS's for CA\_n1-n7-n78**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

draft CR 38.101-1 to include new BCS's for CA\_n1-n7-n78

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

[**R4-2113599**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113599.zip) **TP for TR 38.717-03-02 to include UL and a new configuration for CA\_n1-n28-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

TP for TR 38.717-03-02 to include UL and a new configuration for CA\_n1-n28-n78

**Decision: Revised to R4-2114857 (from R4-2113599).**

[**R4-2114857**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113599.zip) **TP for TR 38.717-03-02 to include UL and a new configuration for CA\_n1-n28-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

TP for TR 38.717-03-02 to include UL and a new configuration for CA\_n1-n28-n78

**Decision: Return to.**

[**R4-2113600**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113600.zip) **TP for TR 38.717-03-02 to include UL for CA\_n7-n28-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

TP for TR 38.717-03-02 to include UL for CA\_n7-n28-n78

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

[**R4-2113602**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113602.zip) **TP for TR 38.717-03-02 to include CA\_n25-n41-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n25-n41-n78

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

[**R4-2113603**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113603.zip) **TP for TR 38.717-03-02 to include CA\_n41-n71-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n41-n71-n78

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

[**R4-2113605**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113605.zip) **TP for TR 38.717-03-02 to include CA\_n41-n66-n78**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-03-02 to include CA\_n41-n66-n78

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

[**R4-2113606**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113606.zip) **draft CR 38.101-1 to include new 3DL CA BCS's**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

draft CR 38.101-1 to include new 3DL CA BCS's

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

[**R4-2113728**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113728.zip) **TP to TR 38.717-03-02 Addition of CA\_n26\_n66\_n70**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

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

[**R4-2113729**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113729.zip) **TP to TR 38.717-03-02 Addition of CA\_n48\_n66\_n70**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114864 (from R4-2113729).**

[**R4-2114864**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113729.zip) **TP to TR 38.717-03-02 Addition of CA\_n48\_n66\_n70**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2113730**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113730.zip) **TP to TR 38.717-03-02 Addition of CA\_n48\_n66\_n71**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114865 (from R4-2113730).**

[**R4-2114865**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113730.zip) **TP to TR 38.717-03-02 Addition of CA\_n48\_n66\_n71**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2113731**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113731.zip) **TP to TR 38.717-03-02 Addition of CA\_n48\_n70\_n71**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114866 (from R4-2113731).**

[**R4-2114866**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113731.zip) **TP to TR 38.717-03-02 Addition of CA\_n48\_n70\_n71**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2113732**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113732.zip) **TP to TR 38.717-03-02 Addition of CA\_n66\_n70\_n71**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Revised to R4-2114867 (from R4-2113732).**

[**R4-2114867**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113732.zip) **TP to TR 38.717-03-02 Addition of CA\_n66\_n70\_n71**

*Type: pCR For: Approval  
 38.717-03-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, DISH Network*

**Decision: Return to.**

[**R4-2114055**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114055.zip) **DraftCR 38.101-1: Addition of n41-n66-n77 and n66-n71-n77 BCS**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Bell Mobility, TELUS*

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

### 8.12 NR inter-band Carrier Aggregation and Dual connectivity for DL 4 bands and 2UL bands

[**R4-2113591**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113591.zip) **TP for TR 38.717-04-02 to include CA\_n1-n5-n7-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n1-n5-n7-n78

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

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

[**R4-2112410**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112410.zip) **TR 38.717-04-02 update version 0.6.0**

*Type: draft TR For: Agreement  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung*

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

[**R4-2112429**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112429.zip) **Big CR on introduction of completed NR CA/DC combs with 4DL/2UL within FR1**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0889 rev Cat: B (Rel-17)  
  
 Source: Samsung*

**Abstract:**

big CR

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

[**R4-2112430**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112430.zip) **Big CR on introduction of completed NR CA/DC combs with 4DL/2UL including FR2**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0614 rev Cat: B (Rel-17)  
  
 Source: Samsung*

**Abstract:**

big CR

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

[**R4-2112431**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112431.zip) **Revised WID on NR CA/DC with 4DL/2UL**

*Type: WID revised For: Information  
 Source: Samsung*

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

#### 8.12.2 UE RF requirements

[**R4-2111782**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111782.zip) **TP to TR 38.717-04-02: Addition of CA\_n2-n5-n30-n66 and CA\_n2-n14-n30-n66**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111810**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111810.zip) **DraftCR 38.101-1: Addition of CA\_n1-n3-n7-n28 BCS configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111811**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111811.zip) **DraftCR 38.101-1: Addition of CA\_n1-n3-n7-n78 BCS configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111812**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111812.zip) **DraftCR 38.101-1: Addition of CA\_n1-n3-n28-n78 BCS configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2111813**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111813.zip) **DraftCR 38.101-1: Addition of CA\_n3-n7-n28-n78 BCS configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2112067**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112067.zip) **TP update for TR 38.717-04-02: NR CA\_n3-n28-n77-n257**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Revised to R4-2114840 (from R4-2112067).**

[**R4-2114840**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112067.zip) **TP update for TR 38.717-04-02: NR CA\_n3-n28-n77-n257**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Return to.**

[**R4-2112068**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112068.zip) **Draft CR for TS 38.101-3: Support of n77(2A) for DC\_n3-n28-n77-n257**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2112445**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112445.zip) **Draft CR for 38.101-1 to introduce new configurations to CA\_n3-n28-n41-n77 and CA\_n3-n28-n41-n78**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung,KDDI*

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

[**R4-2112467**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112467.zip) **Draft CR for 38.101-1 to introduce new configurations to CA\_n41-n66-n71-n77 with 2UL**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Telus, Bell mobility*

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

[**R4-2112754**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112754.zip) **TP for TR 38.717-04-02 to include CA\_n1-n3-n7-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n1-n3-n7-n78

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

[**R4-2112755**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112755.zip) **TP for TR 38.717-04-02 to include CA\_n1-n3-n28-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n1-n3-n28-n78

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

[**R4-2112756**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112756.zip) **TP for TR 38.717-04-02 to include CA\_n3-n5-n7-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n3-n5-n7-n78

**Decision: Revised to R4-2114847 (from R4-2112756).**

[**R4-2114847**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112756.zip) **TP for TR 38.717-04-02 to include CA\_n3-n5-n7-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n3-n5-n7-n78

**Decision: Return to.**

[**R4-2113587**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113587.zip) **TP for TR 38.717-04-02 to include CA\_n3-n7-n28-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n3-n7-n28-n78

**Decision: Revised to R4-2114854 (from R4-2113587).**

[**R4-2114854**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113587.zip) **TP for TR 38.717-04-02 to include CA\_n3-n7-n28-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n3-n7-n28-n78

**Decision: Return to.**

[**R4-2113589**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113589.zip) **TP for TR 38.717-04-02 to include CA\_n1-n3-n5-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Telstra*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n1-n3-n5-n78

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

[**R4-2113598**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113598.zip) **TP for TR 38.717-04-02 to include CA\_n1-n7-n28-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n1-n7-n28-n78

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

[**R4-2113608**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113608.zip) **TP for TR 38.717-04-02 to include CA\_n25-n41-n66-n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n25-n41-n66-n78

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

[**R4-2113609**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113609.zip) **TP for TR 38.717-04-02 to include CA\_n41-n66-n71.n78**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, Bell Mobility*

**Abstract:**

TP for TR 38.717-04-02 to include CA\_n41-n66-n71.n78

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

[**R4-2113699**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113699.zip) **TP to TR 38.717-04-02 Addition of CA\_n1A-n28A-n40-n78A**

*Type: pCR For: Approval  
 38.717-04-02 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113712**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113712.zip) **draftCR to correct CA\_n25A-n41A\_n66A-n71A UL in 38.101-1**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

### 8.13 NR inter-band CA for 5 bands DL with x bands UL (x=1, 2)

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

[**R4-2112594**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112594.zip) **Revised WID on NR inter-band CA for 5 bands DL with x bands UL (x=1, 2)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

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

[**R4-2112595**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112595.zip) **TR 38.717-05-01 v0.3.0**

*Type: draft TR For: Approval  
 38.717-05-01 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

To capture the approved TPs in this meeting

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

[**R4-2112596**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112596.zip) **CR on Introduction of completed 5 bands inter-band CA into TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0894 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2112597**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112597.zip) **CR on Introduction of completed 5 bands inter-band CA into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0619 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 8.13.2 UE RF requirements

[**R4-2111814**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111814.zip) **DraftCR 38.101-1: Correction of CA\_n1-n3-n7-n28-n78 BCS configuration**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, BT plc*

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

[**R4-2112173**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112173.zip) **TP for TR 38.717-05-01 CA\_n1A-n3A-n8A-n77A-n257GHIJKLMA and CA\_n1A-n3A-n8A-n77(2A)-n257GHIJKLMA**

*Type: pCR For: Approval  
 38.717-05-01 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Abstract:**

KT's new band combination

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

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

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

[**R4-2112489**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112489.zip) **Big CR for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0618 rev Cat: B (Rel-17)  
  
 Source: CHTTL*

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

[**R4-2112497**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112497.zip) **Revised WID for Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

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

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

[**R4-2112520**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112520.zip) **TR 37.717-11-11 v0.5.0 Rel-17 Dual Connectivity (DC) of 1 LTE band (1DL/1UL) and 1 NR band (1DL/1UL)**

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

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

#### 8.14.2 EN-DC requirements without FR2 band

[**R4-2111783**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111783.zip) **DraftCR 38.101-3: Addition of DC\_2-2\_n30 and DC\_66-66\_n30**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Revised to R4-2114805 (from R4-2111783).**

[**R4-2114805**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111783.zip) **DraftCR 38.101-3: Addition of DC\_2-2\_n30 and DC\_66-66\_n30**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

**Decision: Return to.**

[**R4-2112287**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112287.zip) **Draft CR to 38.101-3 Correction to Reference Sensitivity Exceptions for DC**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: AT&T*

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

[**R4-2112454**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112454.zip) **Draft CR for 38.101-3 to introduce new configuration for DC\_5\_n77**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112654**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112654.zip) **TP for TR 37.717-11-11 for DC\_48\_n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision: Revised to R4-2114810 (from R4-2112654).**

[**R4-2114810**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112654.zip) **TP for TR 37.717-11-11 for DC\_48\_n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision: Return to.**

[**R4-2112848**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112848.zip) **TP for TR 37.717-11-11\_DC\_n28A\_3A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2112849**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112849.zip) **TP for TR 37.717-11-11\_DC\_n28A\_8A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2112850**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112850.zip) **TP for TR 37.717-11-11\_DC\_n28A\_34A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Revised to R4-2114813 (from R4-2112850).**

[**R4-2114813**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112850.zip) **TP for TR 37.717-11-11\_DC\_n28A\_34A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Return to.**

[**R4-2112851**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112851.zip) **TP for TR 37.717-11-11\_DC\_n28A\_39A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Revised to R4-2114814 (from R4-2112851).**

[**R4-2114814**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112851.zip) **TP for TR 37.717-11-11\_DC\_n28A\_39A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Return to.**

[**R4-2112852**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112852.zip) **TP for TR 37.717-11-11\_DC\_n28A\_40A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Revised to R4-2114815 (from R4-2112852).**

[**R4-2114815**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112852.zip) **TP for TR 37.717-11-11\_DC\_n28A\_40A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Return to.**

[**R4-2112853**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112853.zip) **TP for TR 37.717-11-11\_DC\_n41A\_3A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2112854**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112854.zip) **TP for TR 37.717-11-11\_DC\_n41A\_8A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Revised to R4-2114816 (from R4-2112854).**

[**R4-2114816**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112854.zip) **TP for TR 37.717-11-11\_DC\_n41A\_8A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Return to.**

[**R4-2112855**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112855.zip) **TP for TR 37.717-11-11\_DC\_n41A\_34A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Revised to R4-2114817 (from R4-2112855).**

[**R4-2114817**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112855.zip) **TP for TR 37.717-11-11\_DC\_n41A\_34A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

**Decision: Return to.**

[**R4-2112856**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112856.zip) **TP for TR 37.717-11-11\_DC\_n41A\_39A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2112857**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112857.zip) **TP for TR 37.717-11-11\_DC\_n41A\_40A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC, ZTE Corporation*

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

[**R4-2112928**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112928.zip) **TP for TR 37.717-11-11\_DC\_38A-n3A**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113063**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113063.zip) **TP for TR 37.717-11-11: DC\_(n)66AA**

*Type: pCR For: Approval  
 37.717-11-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113345**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113345.zip) **TP for TR 37.717-11-11: DC\_38\_n1**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_38\_n1.

**Decision: Revised to R4-2114818 (from R4-2113345).**

[**R4-2114818**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113345.zip) **TP for TR 37.717-11-11: DC\_38\_n1**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_38\_n1.

**Decision: Return to.**

[**R4-2113346**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113346.zip) **TP for TR 37.717-11-11: DC\_38\_n8**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_38\_n8.

**Decision: Revised to R4-2114819 (from R4-2113346).**

[**R4-2114819**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113346.zip) **TP for TR 37.717-11-11: DC\_38\_n8**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_38\_n8.

**Decision: Return to.**

[**R4-2113372**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113372.zip) **Draft CR for 38.101-3 to add the configuration DC\_n28A\_20A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113373**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113373.zip) **Draft CR for 38.101-3 to add the configuration DC\_n28A\_3A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 8.14.3 EN-DC requirements with FR2 band

[**R4-2112650**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112650.zip) **TP for TR 37.717-11-11: addition of uplink configurations for DC\_3-3\_n257, DC\_7\_n257, DC\_7-7\_n257**

*Type: pCR For: Approval  
 37.717-11-11 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

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

[**R4-2112922**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112922.zip) **Draft CR to TS38.101-3 Introduction of DC\_39-n258 and DC\_40-n258**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

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

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

[**R4-2113051**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113051.zip) **TR 37.717-21-11 V0.6.0 for DC of 2 LTE band and 1 NR band**

*Type: draft TR For: Approval  
 37.717-21-11 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113052**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113052.zip) **Revised WID: Dual Connectivity (DC) of 2 bands LTE inter-band CA (2DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

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

[**R4-2113053**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113053.zip) **CR on introduction of completed EN-DC of 2 bands LTE and 1 band NR from RAN4#100-e into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0625 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 8.15.2 EN-DC requirements without FR2 band

[**R4-2111750**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111750.zip) **TP for TR 37.717-21-11 Addition of DC\_2-12\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114794 (from R4-2111750).**

[**R4-2114794**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111750.zip) **TP for TR 37.717-21-11 Addition of DC\_2-12\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111751**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111751.zip) **TP for TR 37.717-21-11 Addition of DC\_2-14\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114795 (from R4-2111751).**

[**R4-2114795**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111751.zip) **TP for TR 37.717-21-11 Addition of DC\_2-14\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111752**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111752.zip) **TP for TR 37.717-21-11 Addition of DC\_2-29\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114796 (from R4-2111752).**

[**R4-2114796**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111752.zip) **TP for TR 37.717-21-11 Addition of DC\_2-29\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111753**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111753.zip) **TP for TR 37.717-21-11 Addition of DC\_2-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114797 (from R4-2111753).**

[**R4-2114797**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111753.zip) **TP for TR 37.717-21-11 Addition of DC\_2-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111754**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111754.zip) **TP for TR 37.717-21-11 Addition of DC\_5-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114798 (from R4-2111754).**

[**R4-2114798**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111754.zip) **TP for TR 37.717-21-11 Addition of DC\_5-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111755**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111755.zip) **TP for TR 37.717-21-11 Addition of DC\_12-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

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

[**R4-2111756**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111756.zip) **TP for TR 37.717-21-11 Addition of DC\_12-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114799 (from R4-2111756).**

[**R4-2114799**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111756.zip) **TP for TR 37.717-21-11 Addition of DC\_12-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111757**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111757.zip) **TP for TR 37.717-21-11 Addition of DC\_14-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114800 (from R4-2111757).**

[**R4-2114800**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111757.zip) **TP for TR 37.717-21-11 Addition of DC\_14-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111758**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111758.zip) **TP for TR 37.717-21-11 Addition of DC\_14-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114801 (from R4-2111758).**

[**R4-2114801**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111758.zip) **TP for TR 37.717-21-11 Addition of DC\_14-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111759**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111759.zip) **TP for TR 37.717-21-11 Addition of DC\_29-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114802 (from R4-2111759).**

[**R4-2114802**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111759.zip) **TP for TR 37.717-21-11 Addition of DC\_29-30\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111760**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111760.zip) **TP for TR 37.717-21-11 Addition of DC\_29-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114803 (from R4-2111760).**

[**R4-2114803**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111760.zip) **TP for TR 37.717-21-11 Addition of DC\_29-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111761**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111761.zip) **TP for TR 37.717-21-11 Addition of DC\_30-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Revised to R4-2114804 (from R4-2111761).**

[**R4-2114804**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111761.zip) **TP for TR 37.717-21-11 Addition of DC\_30-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision: Return to.**

[**R4-2111784**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111784.zip) **TP to TR 37.717-21-11 DC\_2-5\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111785**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111785.zip) **TP to TR 37.717-21-11 DC\_2-12\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111786**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111786.zip) **TP to TR 37.717-21-11 DC\_2-14\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111787**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111787.zip) **TP to TR 37.717-21-11 DC\_2-29\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111788**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111788.zip) **TP to TR 37.717-21-11 DC\_2-66\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111789**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111789.zip) **TP to TR 37.717-21-11 DC\_5-66\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111790**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111790.zip) **TP to TR 37.717-21-11 DC\_12-66\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111791**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111791.zip) **TP to TR 37.717-21-11 DC\_14-66\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2111792**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111792.zip) **TP to TR 37.717-21-11 DC\_29-66\_n30**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2112446**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112446.zip) **TP for TR 37.717-21-11 DC\_2-46\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2114806 (from R4-2112446).**

[**R4-2114806**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112446.zip) **TP for TR 37.717-21-11 DC\_2-46\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Return to.**

[**R4-2112447**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112447.zip) **TP for TR 37.717-21-11 DC\_2-48\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

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

[**R4-2112448**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112448.zip) **TP for TR 37.717-21-11 DC\_13-46\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2114807 (from R4-2112448).**

[**R4-2114807**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112448.zip) **TP for TR 37.717-21-11 DC\_13-46\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Return to.**

[**R4-2112449**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112449.zip) **TP for TR 37.717-21-11 DC\_13-48\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2114808 (from R4-2112449).**

[**R4-2114808**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112449.zip) **TP for TR 37.717-21-11 DC\_13-48\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Return to.**

[**R4-2112450**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112450.zip) **TP for TR 37.717-21-11 DC\_48-66\_n2**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

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

[**R4-2112451**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112451.zip) **TP for TR 37.717-21-11 DC\_48-66\_n66**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

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

[**R4-2112452**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112452.zip) **TP for TR 37.717-21-11 DC\_48-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Revised to R4-2114809 (from R4-2112452).**

[**R4-2114809**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112452.zip) **TP for TR 37.717-21-11 DC\_48-66\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision: Return to.**

[**R4-2112453**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112453.zip) **Draft CR for 38.101-3 to introduce new configurations for DC of 2 bands LTE and 1 NR band**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, Verizon*

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

[**R4-2112733**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112733.zip) **TP for TR 37.717-21-11 DC\_1-5\_n77, DC\_1-7\_n77, DC\_3-5\_n77, DC\_3-7\_n77 and DC\_5-7\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics, SK Telecom, LG Uplus, Ericsson*

**Abstract:**

Provide TP to add DC operating bands and coexistence issues and MSD for DC\_1-5\_n77(2A), DC\_1-7\_n77(2A), DC\_3-5\_n77(2A), DC\_3-7\_n77(2A) and DC\_5-7\_n77(2A).

**Decision: Revised to R4-2114811 (from R4-2112733).**

[**R4-2114811**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112733.zip) **TP for TR 37.717-21-11 DC\_1-5\_n77, DC\_1-7\_n77, DC\_3-5\_n77, DC\_3-7\_n77 and DC\_5-7\_n77**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics, SK Telecom, LG Uplus, Ericsson*

**Abstract:**

Provide TP to add DC operating bands and coexistence issues and MSD for DC\_1-5\_n77(2A), DC\_1-7\_n77(2A), DC\_3-5\_n77(2A), DC\_3-7\_n77(2A) and DC\_5-7\_n77(2A).

**Decision: Return to.**

[**R4-2112759**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112759.zip) **TP for TR 37.717-21-11 to include DC\_2-(n)66**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson, T-Mobile USA*

**Abstract:**

TP for TR 37.717-21-11 to include DC\_2-(n)66

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

[**R4-2112929**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112929.zip) **TP for TR 37.717-21-11\_DC\_1A-7A\_n3A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112930**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112930.zip) **TP for TR 37.717-21-11\_DC\_1A-38A\_n3A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112931**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112931.zip) **TP for TR 37.717-21-11\_DC\_7A-38A\_n3A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112932**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112932.zip) **TP for TR 37.717-21-11\_DC\_20A-38A\_n3A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113347**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113347.zip) **TP for TR 37.717-21-11: DC\_1-32\_n8**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_1-32\_n8.

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

[**R4-2113348**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113348.zip) **TP for TR 37.717-21-11: DC\_1-38\_n8**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_1-38\_n8.

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

[**R4-2113371**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113371.zip) **TP for TR 37.717-21-11: DC\_7-32\_n3**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_7-32\_n3.

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

[**R4-2113374**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113374.zip) **TP for TR 37.717-21-11: DC\_3A-32A\_n28A and DC\_3C-32A\_n28A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2114820 (from R4-2113374).**

[**R4-2114820**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113374.zip) **TP for TR 37.717-21-11: DC\_3A-32A\_n28A and DC\_3C-32A\_n28A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

[**R4-2113375**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113375.zip) **TP for TR 37.717-21-11: DC\_28A-32A\_n1A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2114821 (from R4-2113375).**

[**R4-2114821**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113375.zip) **TP for TR 37.717-21-11: DC\_28A-32A\_n1A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

[**R4-2113376**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113376.zip) **TP for TR 37.717-21-11: DC\_28A-32A\_n3A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2114822 (from R4-2113376).**

[**R4-2114822**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113376.zip) **TP for TR 37.717-21-11: DC\_28A-32A\_n3A**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

[**R4-2113377**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113377.zip) **Draft CR for 38.101-3 to add the configuration DC\_3C-32A\_n1A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113378**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113378.zip) **Draft CR for 38.101-3 to add the configuration DC\_1A-3C\_n78A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113379**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113379.zip) **Draft CR for 38.101-3 to add the configuration DC\_3C-32A\_n78A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Revised to R4-2114823 (from R4-2113379).**

[**R4-2114823**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113379.zip) **Draft CR for 38.101-3 to add the configuration DC\_3C-32A\_n78A**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision: Return to.**

[**R4-2113393**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113393.zip) **TP for TR 37.717-21-11: DC\_7-32\_n8**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_7-32\_n8.

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

[**R4-2113395**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113395.zip) **TP for TR 37.717-21-11: DC\_20-32\_n8**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_20-32\_n8.

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

[**R4-2113396**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113396.zip) **TP for TR 37.717-21-11: DC\_20-38\_n1**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_20-38\_n1.

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

[**R4-2113397**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113397.zip) **Draft CR for 38.101-3 to introduce new configurations for DC\_1-5\_n78(2A), DC\_1-7-7\_n78(2A), DC\_3-5\_n78(2A), DC\_3-7-7\_n78(2A), DC\_5-7\_n78(2A), DC\_5-7-7\_n78(2A)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SK Telecom, LG Electronics, LG Uplus*

**Abstract:**

Adding new configurations for 2 LTE bands + 1 NR band DC combinations about n78(2A)

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

[**R4-2113442**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113442.zip) **TP for TR 37.717-21-11: DC\_28-32\_n1**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_28-32\_n1.

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

[**R4-2113481**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113481.zip) **TP for TR 37.717-21-11: DC\_28-32\_n3**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_28-32\_n3.

**Decision: Revised to R4-2114824 (from R4-2113481).**

[**R4-2114824**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113481.zip) **TP for TR 37.717-21-11: DC\_28-32\_n3**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_28-32\_n3.

**Decision: Return to.**

[**R4-2113482**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113482.zip) **TP for TR 37.717-21-11: DC\_32-38\_n1**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-21-11 to include DC\_32-38\_n1.

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

[**R4-2114151**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114151.zip) **TP to TR 37.717-21-11 for DC\_7-7-28-n1**

*Type: pCR For: Approval  
 37.717-21-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 8.15.3 DMEN-DC requirements with FR2 band

[**R4-2112677**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112677.zip) **draft CR for addition of uplink configuratios for DC\_3-7\_n257, DC\_3-3-7\_n257, DC\_3-7-7\_n257, DC\_3-3-7-7\_n257**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CHTTL*

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

[**R4-2113704**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113704.zip) **draftCR to introduce DC\_1A-7A\_n258 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113705**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113705.zip) **draftCR to introduce DC\_1A-3A\_n258 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113706**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113706.zip) **draftCR to add UL configurations to DC\_3A-7A\_n258 in 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

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

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

[**R4-2113553**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113553.zip) **Revised WID LTE 3DL and one NR band Rel-17**

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

**Abstract:**

Revised WID LTE 3DL and one NR band Rel-17

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

[**R4-2113558**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113558.zip) **CR 38.101-3 new combinations LTE 3DL and one NR band**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0627 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-3 new combinations LTE 3DL and one NR band

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

[**R4-2113563**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113563.zip) **TR 37.717-31-11 v0.6.0 Rel-17 DC combinations LTE 3DL and one NR band**

*Type: draft TR For: Endorsement  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TR 37.717-31-11 v0.6.0 Rel-17 DC combinations LTE 3DL and one NR band

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

#### 8.16.2 EN-DC requirements without FR2 band

[**R4-2111793**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111793.zip) **DraftCR 38.101-3: Addition of DC\_2-14-66\_n30 DC\_2-5-66\_n30 DC\_2-12-66\_n30 DC\_2-29-66\_n30**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, AT&T*

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

[**R4-2112455**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112455.zip) **Draft CR for 38.101-3 to introduce new configurations for DC\_1-3-5\_n78,DC\_1-3-7\_n78,DC\_1-5-7\_n78, DC\_3-5-7\_n78**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112456**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112456.zip) **TP for TR 37.717-31-11 DC\_1-3-5\_n77**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112457**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112457.zip) **TP for TR 37.717-31-11 DC\_1-3-7\_n77**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112458**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112458.zip) **TP for TR 37.717-31-11 DC\_1-5-7\_n77**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112459**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112459.zip) **TP for TR 37.717-31-11 DC\_3-5-7\_n77**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112933**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112933.zip) **TP for TR 37.717-31-11: DC\_1A-7A-38A\_n3A**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112934**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112934.zip) **TP for TR 37.717-31-11: DC\_1A-20A-38A\_n3A**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112935**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112935.zip) **TP for TR 37.717-31-11: DC\_7A-20A-38A\_n3A**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113064**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113064.zip) **TP for TR 37.717-31-11: DC\_7A-29A-66A\_n78A**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113484**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113484.zip) **TP for TR 37.717-31-11: DC\_1-7-32\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_1-7-32\_n3.

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

[**R4-2113485**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113485.zip) **TP for TR 37.717-31-11: DC\_1-7-32\_n8**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_1-7-32\_n8.

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

[**R4-2113486**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113486.zip) **TP for TR 37.717-31-11: DC\_1-7-38\_n8**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_1-7-38\_n8.

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

[**R4-2113505**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113505.zip) **TP for TR 37.717-31-11: DC\_1-20-28\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_1-20-28\_n3.

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

[**R4-2113506**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113506.zip) **TP for TR 37.717-31-11: DC\_1-20-32\_n8**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_1-20-32\_n8.

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

[**R4-2113525**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113525.zip) **TP for TR 37.717-31-11: DC\_1-20-38\_n8**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_1-20-38\_n8.

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

[**R4-2113526**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113526.zip) **TP for TR 37.717-31-11: DC\_1-28-32\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_1-28-32\_n3.

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

[**R4-2113527**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113527.zip) **TP for TR 37.717-31-11: DC\_3-7-32\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_3-7-32\_n1.

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

[**R4-2113529**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113529.zip) **TP for TR 37.717-31-11: DC\_3-8-20\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_3-8-20\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113531**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113531.zip) **TP for TR 37.717-31-11: DC\_7-8-20\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-8-20\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113533**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113533.zip) **TP for TR 37.717-31-11: DC\_7-8-20\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-8-20\_n3. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113534**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113534.zip) **TP for TR 37.717-31-11: DC\_7-20-28\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-20-28\_n3.

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

[**R4-2113535**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113535.zip) **TP for TR 37.717-31-11: DC\_7-20-32\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-20-32\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113536**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113536.zip) **TP for TR 37.717-31-11: DC\_7-20-32\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-20-32\_n3.

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

[**R4-2113544**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113544.zip) **TP for TR 37.717-31-11: DC\_7-20-32\_n8**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-20-32\_n8.

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

[**R4-2113545**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113545.zip) **TP for TR 37.717-31-11: DC\_7-20-38\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-20-38\_n1.

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

[**R4-2113546**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113546.zip) **TP for TR 37.717-31-11: DC\_7-20-38\_n8**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-20-38\_n8.

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

[**R4-2113548**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113548.zip) **TP for TR 37.717-31-11: DC\_7-28-32\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-28-32\_n1.

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

[**R4-2113549**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113549.zip) **TP for TR 37.717-31-11: DC\_7-28-32\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_7-28-32\_n3.

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

[**R4-2113551**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113551.zip) **TP for TR 37.717-31-11: DC\_8-20-32\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_8-20-32\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113610**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113610.zip) **TP for TR 37.717-31-11: DC\_20-28-32\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_20-28-32\_n1.

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

[**R4-2113611**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113611.zip) **TP for TR 37.717-31-11: DC\_20-28-32\_n3**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_20-28-32\_n3.

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

[**R4-2113612**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113612.zip) **TP for TR 37.717-31-11: DC\_20-32-38\_n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-31-11 to include DC\_20-32-38\_n1.

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

[**R4-2114160**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114160.zip) **TP to TR 37.717-31-11 for DC\_3-7-7-28-n1**

*Type: pCR For: Approval  
 37.717-31-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 8.16.3 EN-DC requirements with FR2 band

[**R4-2113707**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113707.zip) **draftCR to introduce DC\_1A-3A-7A\_n258 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

### 8.17 DC of 4 LTE band and 1 NR band

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

[**R4-2113683**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113683.zip) **draft TR 37.717-41-11-060**

*Type: draft TR For: Agreement  
 37.717-41-11 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of TPs provided at RAN4#100

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

[**R4-2113684**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113684.zip) **Revised Rel-17 WID on DC of 4 bands LTE inter-band CA (4DL1UL) and 1 NR band (1DL1UL)**

*Type: WID revised For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of requests provided at RAN4#100

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

[**R4-2113685**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113685.zip) **Big CR to introduce new combinations of LTE 4band + NR 1band for TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0630 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Inclusion of approved combinations provided at RAN4#100

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

#### 8.17.2 EN-DC requirements without FR2 band

[**R4-2112460**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112460.zip) **TP for TR 37.717-41-11 DC\_1-3-5-7\_n77**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112461**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112461.zip) **Draft CR for 38.101-3 to introduce new configurations for DC\_1-3-5-7\_n78**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Samsung, SKT*

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

[**R4-2112921**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112921.zip) **Draft CR to TS38.101-3 Introduction of DC\_1A-3A-7A-20A\_n78(2A)**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112937**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112937.zip) **TP for TR 37.717-41-11: DC\_1A-7A-20A-38A\_n3A**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113613**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113613.zip) **TP for TR 37.717-41-11: DC\_1-7-8-20\_n3**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_1-7-8-20\_n3. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113614**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113614.zip) **TP for TR 37.717-41-11: DC\_1-7-20-28\_n3**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_1-7-20-28\_n3.

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

[**R4-2113615**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113615.zip) **TP for TR 37.717-41-11: DC\_1-7-20-32\_n3**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_1-7-20-32\_n3.

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

[**R4-2113616**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113616.zip) **TP for TR 37.717-41-11: DC\_1-7-20-32\_n8**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_1-7-20-32\_n8.

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

[**R4-2113617**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113617.zip) **TP for TR 37.717-41-11: DC\_1-7-20-38\_n8**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_1-7-20-38\_n8.

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

[**R4-2113618**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113618.zip) **TP for TR 37.717-41-11: DC\_1-7-28-32\_n3**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_1-7-28-32\_n3.

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

[**R4-2113619**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113619.zip) **TP for TR 37.717-41-11: DC\_1-20-28-32\_n3**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_1-20-28-32\_n3.

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

[**R4-2113627**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113627.zip) **TP for TR 37.717-41-11: DC\_3-7-8-20\_n1**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_3-7-8-20\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113645**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113645.zip) **TP for TR 37.717-41-11: DC\_3-7-20-32\_n1**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_3-7-20-32\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113646**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113646.zip) **TP for TR 37.717-41-11: DC\_7-8-20-32\_n1**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_7-8-20-32\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

[**R4-2113647**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113647.zip) **TP for TR 37.717-41-11: DC\_7-20-28-32\_n1**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_7-20-28-32\_n1.

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

[**R4-2113648**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113648.zip) **TP for TR 37.717-41-11: DC\_7-20-28-32\_n3**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_7-20-28-32\_n3.

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

[**R4-2113649**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113649.zip) **TP for TR 37.717-41-11: DC\_7-20-32-38\_n1**

*Type: pCR For: Approval  
 37.717-41-11 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution is a text proposal for TR 37.717-41-11 to include DC\_7-20-32-38\_n1. It is a resubmission (originally submitted at RAN4#98-e) following the approval of the required fallbacks.

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

#### 8.17.3 EN-DC requirements with FR2 band

### 8.18 DC of 5 bands LTE inter-band CA (5DL/1L) and 1 NR band (1DL/1UL)

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

[**R4-2112411**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112411.zip) **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:** The document was **not treated**.

[**R4-2112432**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112432.zip) **Big CR introduction completed band combinations for Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL)**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0615 rev Cat: B (Rel-17)  
  
 Source: Samsung*

**Abstract:**

big CR

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

[**R4-2112433**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112433.zip) **Revised WID on Dual Connectivity (DC) of 5 bands LTE inter-band CA (5DL/1UL) and 1 NR band (1DL/1UL)**

*Type: WID revised For: Information  
 Source: Samsung*

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

#### 8.18.2 UE RF requirements

### 8.19 DC of x bands (x=1,2, 3, 4) LTE inter-band CA and 2 bands NR inter-band CA

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

[**R4-2112735**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112735.zip) **TR 37.717-11-21 v0.6.0 TR update: LTE(xDL/1UL)+ NR(2DL/1UL) DC in Rel-17**

*Type: draft TR For: Agreement  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

Provide draft TR to capture the approved TPs for NR DC x band DL/1UL LTE (x=1,2,3,4) and 2 band DL/1UL NR basket WI.

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

[**R4-2112736**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112736.zip) **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 each DC band status and add new DC band combinations in this meeting

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

[**R4-2112738**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112738.zip) **Introduction CR on new NR DC LTE(xDL/1UL)+ NR(2DL/1UL) band combinations in Rel-17**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0620 rev Cat: B (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

provide CR to add new NR DC band combinations in TS 38.101-3

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

#### 8.19.2 EN-DC requirements including NR inter CA without FR2 band

[**R4-2112055**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112055.zip) **TP for TR 37.717-11-21: EN-DC\_1\_n3-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Revised to R4-2114836 (from R4-2112055).**

[**R4-2114836**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112055.zip) **TP for TR 37.717-11-21: EN-DC\_1\_n3-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Return to.**

[**R4-2112056**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112056.zip) **TP for TR 37.717-11-21: EN-DC\_8\_n3-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Revised to R4-2114837 (from R4-2112056).**

[**R4-2114837**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112056.zip) **TP for TR 37.717-11-21: EN-DC\_8\_n3-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Return to.**

[**R4-2112057**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112057.zip) **TP for TR 37.717-11-21: EN-DC\_8\_n28-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Revised to R4-2114838 (from R4-2112057).**

[**R4-2114838**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112057.zip) **TP for TR 37.717-11-21: EN-DC\_8\_n28-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Return to.**

[**R4-2112058**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112058.zip) **TP for TR 37.717-11-21: EN-DC\_8\_n77-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Revised to R4-2114839 (from R4-2112058).**

[**R4-2114839**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112058.zip) **TP for TR 37.717-11-21: EN-DC\_8\_n77-n79**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision: Return to.**

[**R4-2112656**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112656.zip) **TP for TR 37.717-11-21 for DC\_13\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision: Revised to R4-2114843 (from R4-2112656).**

[**R4-2114843**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112656.zip) **TP for TR 37.717-11-21 for DC\_13\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision: Return to.**

[**R4-2112657**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112657.zip) **TP for 37.717-11-21 for DC\_5\_n66-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112658**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112658.zip) **TP for TR 37.717-11-21 for DC\_5\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112659**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112659.zip) **TP for TR 37.717-11-21for DC\_5\_n2-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112660**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112660.zip) **TP for TR 37.717-11-21 for DC\_2\_n2-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

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

[**R4-2112689**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112689.zip) **TP for TR 37.717-11-21: UE requirements for DC\_3-7\_n8-n78, DC\_3-3-7\_n8-n78, DC\_3-7-7\_n8-n78, DC\_3-3-7-7\_n8-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

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

[**R4-2112690**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112690.zip) **TP for TR 37.717-11-21: UE requirements for DC\_3-3\_n8-n78, DC\_7-7\_n8-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CHTTL*

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

[**R4-2112760**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112760.zip) **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 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

Provide self-interference analysis results in TR 37.717-11-21 for NR DC Basket WI in Rel-17.

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

[**R4-2112762**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112762.zip) **MSD anlaysis results for new DC band combinations**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

Provide MSD results for NR DC band combinations with self interference problems.

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

[**R4-2113060**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113060.zip) **TP for TR 37.717-11-21: DC\_12\_n66-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Revised to R4-2114849 (from R4-2113060).**

[**R4-2114849**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113060.zip) **TP for TR 37.717-11-21: DC\_12\_n66-n78**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Return to.**

[**R4-2113061**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113061.zip) **TP for TR 37.717-11-21: DC\_13A\_n7A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Revised to R4-2114850 (from R4-2113061).**

[**R4-2114850**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113061.zip) **TP for TR 37.717-11-21: DC\_13A\_n7A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

**Decision: Return to.**

[**R4-2113062**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113062.zip) **TP for TR 37.717-11-21: DC\_7\_n66-n77**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon, Bell Mobility, Telus*

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

[**R4-2113380**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113380.zip) **TP for TR 37.717-11-21: DC\_20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113381**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113381.zip) **TP for TR 37.717-11-21: DC\_1A-3A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113382**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113382.zip) **TP for TR 37.717-11-21: DC\_1A-7A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113383**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113383.zip) **TP for TR 37.717-11-21: DC\_1A-20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113384**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113384.zip) **TP for TR 37.717-11-21: DC\_3A-7A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113385**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113385.zip) **TP for TR 37.717-11-21: DC\_3A-20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113386**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113386.zip) **TP for TR 37.717-11-21: DC\_7A-20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113387**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113387.zip) **TP for TR 37.717-11-21: DC\_1A-3A-7A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113388**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113388.zip) **TP for TR 37.717-11-21: DC\_1A-3A-20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113389**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113389.zip) **TP for TR 37.717-11-21: DC\_1A-7A-20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113390**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113390.zip) **TP for TR 37.717-11-21: DC\_3A-7A-20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113391**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113391.zip) **TP for TR 37.717-11-21: DC\_1A-3A-7A-20A\_n8A-n78A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113592**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113592.zip) **TP for TR 37.717-11-21 to include DC\_3\_n1-n38**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TP for TR 37.717-11-21 to include DC\_3\_n1-n38

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

[**R4-2113593**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113593.zip) **TP for TR 37.717-11-21 to include DC\_3\_n1-n41**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TP for TR 37.717-11-21 to include DC\_3\_n1-n41

**Decision: Revised to R4-2114855 (from R4-2113593).**

[**R4-2114855**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113593.zip) **TP for TR 37.717-11-21 to include DC\_3\_n1-n41**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TP for TR 37.717-11-21 to include DC\_3\_n1-n41

**Decision: Return to.**

[**R4-2113596**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113596.zip) **draft CR 38.101-3 to include new new UL's to EN-DC configurations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson, BT plc*

**Abstract:**

draft CR 38.101-3 to include new new UL's to EN-DC configurations

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

[**R4-2113700**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113700.zip) **TP for 37.717-11-21 to introduce DC\_8A\_n1A-n40A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision: Revised to R4-2114858 (from R4-2113700).**

[**R4-2114858**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113700.zip) **TP for 37.717-11-21 to introduce DC\_8A\_n1A-n40A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision: Return to.**

[**R4-2113701**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113701.zip) **TP for 37.717-11-21 to introduce DC\_3A-8A\_n1A-n40A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision: Revised to R4-2114859 (from R4-2113701).**

[**R4-2114859**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113701.zip) **TP for 37.717-11-21 to introduce DC\_3A-8A\_n1A-n40A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

**Decision: Return to.**

[**R4-2113702**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113702.zip) **TP for 37.717-11-21 to introduce DC\_7A-8A\_n1A-n40A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113703**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113703.zip) **TP for 37.717-11-21 to introduce DC\_3A-7A-8A\_n1A-n40A**

*Type: pCR For: Approval  
 37.717-11-21 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

#### 8.19.3 EN-DC requirements including NR inter CA with FR2 band

[**R4-2112059**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112059.zip) **Draft CR for TS 38.101-3: Support of UL configurations including FR2 intra-band UL CA in DC\_1-8-11\_n77-n257 and related EN-DC combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

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

[**R4-2113708**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113708.zip) **draftCR to introduce DC\_1A-3A\_n78-n258 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113709**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113709.zip) **draftCR to introduce DC\_1A-7A\_n78-n258 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113710**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113710.zip) **draftCR to introduce DC\_3A-7A\_n78-n258 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

[**R4-2113711**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113711.zip) **draftCR to introduce DC\_1A-3A-7A\_n78-n258 to 38.101-3**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia*

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

### 8.20 DC of x bands (x=1,2) LTE inter-band CA (xDL/xUL) and y bands (y=3-x) NR inter-band CA

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

[**R4-2112947**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112947.zip) **Revised WID on Rel-17 Dual Connectivity (DC) x bands (x=1,2) LTE inter-band CA (xDL/xUL) and y bands (y=3-x) NR inter-band CA**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

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

[**R4-2112948**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112948.zip) **Big CR to reflect the completed ENDC combinations for 3 bands DL with 3 bands UL into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0623 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112949**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112949.zip) **TR 37.717-33 v0.5.0**

*Type: draft TR For: Approval  
 37.717-33 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

#### 8.20.2 UE RF requirements

[**R4-2112936**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112936.zip) **TP for TR 37.717-33\_DC\_8A\_n40A-n258A**

*Type: pCR For: Approval  
 37.717-33 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

### 8.21 DC of x bands (x=1,2,3) LTE inter-band CA (xDL/1UL) and 3 bands NR inter-band CA (3DL/1UL)

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

[**R4-2112950**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112950.zip) **Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL)**

*Type: WID revised For: Approval  
 Source: ZTE Corporation*

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

[**R4-2112951**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112951.zip) **Big CR to reflect the completed DC of x bands (x=1,2,3) LTE inter-band CA (xDL1UL) and 3 bands NR inter-band CA (3DL1UL) into TS 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0624 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2112952**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112952.zip) **TR 37.717-11-31 v0.5.0**

*Type: draft TR For: Approval  
 37.717-11-31 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

#### 8.21.2 UE RF requirements

[**R4-2112927**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112927.zip) **TP for 37.717-11-31\_DC\_3A\_n41A-n79A-n258A**

*Type: pCR For: Approval  
 37.717-11-31 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

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

### 8.22 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)

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

[**R4-2112412**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112412.zip) **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:** The document was **not treated**.

[**R4-2112434**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112434.zip) **Big CR introduction completed band combinations for Dual Connectivity (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)**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0616 rev Cat: B (Rel-17)  
  
 Source: Samsung*

**Abstract:**

big CR

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

[**R4-2112435**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112435.zip) **Revised WID on Dual Connectivity (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)**

*Type: WID revised For: Information  
 Source: Samsung*

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

#### 8.22.2 UE RF requirements

### 8.23 DC of x bands (x=1,2,3) LTE inter-band CA (xDL/1UL) and 4 bands NR inter-band CA (4DL/1UL)

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

[**R4-2112174**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112174.zip) **Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2) LTE inter-band CA (xDL1UL) and 4 bands NR inter-band CA (4DL1UL)**

*Type: WID revised For: Endorsement  
 Source: Huawei,HiSilicon*

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

[**R4-2112175**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112175.zip) **Draft TR skeleton 37.717-11-41\_v0.0.1**

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

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

#### 8.23.2 UE RF requirements

### 8.24 Band combinations for SA NR supplementary uplink (SUL) NSA NR SUL, NSA NR SUL with UL sharing from the UE perspective (ULSUP)

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

[**R4-2112591**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112591.zip) **Revised WID on Band combinations for SA NR Supplementary uplink (SUL), NSA NR SUL, NSA NR SUL with UL sharing from the UE perspective (ULSUP)**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

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

[**R4-2112592**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112592.zip) **TR 37.717-00-00 v0.6.0**

*Type: draft TR For: Approval  
 37.717-00-00 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Abstract:**

To capture the approved TPs in this meeting

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

[**R4-2112593**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112593.zip) **CR on Introduction of completed SUL band combinations into TS 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0893 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 8.24.2 UE RF requirements

[**R4-2113392**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113392.zip) **Draft CR for 38.101-1 to add the configuration SUL\_n79C-n83A and SUL\_n78C-n80A**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

### 8.25 Band combinations for Uu and V2X con-current operation

**Email discussion summary of [100-e][115] NR\_LTE\_V2X\_PC5\_combos, AI 8.25 –Yuan Gao**

[**R4-2114715**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114715.zip) **Email discussion summary for [100-e][10x] NR\_LTE\_V2X\_PC5\_combos**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.25.1 General and Rapporteur Input (WID/TR/CR)

[**R4-2111947**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111947.zip) **On notation for V2X band combinations**

*Type: discussion For: Approval  
 Source: CATT*

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

[**R4-2111949**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111949.zip) **CR for TS 38.101-3, Introduce new band combination of V2X\_3A\_n47A**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0611 rev Cat: B (Rel-17)  
  
 Source: CATT*

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

[**R4-2111950**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111950.zip) **TR 37.875, Band combinations for V2X con-current operation**

*Type: draft TR For: Approval  
 37.875 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

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

#### 8.25.2 UE RF requirement for concurrent operation between NR Uu band and NR PC5 band

[**R4-2112285**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112285.zip) **Calculation of MSD for n79 for V2X\_n79A-n47A and V2X\_n79A-47A and accompanying TP**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Outlines MSD for n79 for V2X\_n79A-n47A and V2X\_n79A-47A

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

[**R4-2113420**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113420.zip) **Discussion and TP for TR 37.875 on MSD for V2X\_n79A-n47A and V2X\_n79A\_47A**

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

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

#### 8.25.3 UE RF requirement for concurrent operation between LTE Uu band and NR PC5 band

[**R4-2111948**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111948.zip) **TP on V2X\_3A\_n47A coexistence study and band combos notation correction**

*Type: pCR For: Approval  
 37.875 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

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

#### 8.25.4 UE RF requirement for concurrent operation between NR Uu band and LTE PC5 band

#### 8.25.5 UE RF requirement for concurrent operation of LTE/NR CA/DC band combinations + PC5 V2X

### 8.26 Adding channel bandwidth support to existing NR bands

**Email discussion summary of [99-e][116] NR\_bands\_R17\_BWs, AI 8.26 – Dominique Evereare**

[**R4-2114716**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114716.zip) **Email discussion summary for [100-e][116] NR\_bands\_R17\_BWs**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2112474**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112474.zip) **The status of 5G local network spectrum for vertical service in the Republic of Korea**

*Type: other For: Information  
 Source: TTA*

**Abstract:**

The Ministry of Science and ICT (MSIT) in the Republic of Korea announced the plan for 5G local network spectrum for vertical services on June 30, 2021. In order to provide the motivation of adding channel bandwidths to n79, this contribution shares the i

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

#### 8.26.1 General and Rapporteur Input (WID/TR/CR)

[**R4-2113737**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113737.zip) **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#99-e meeting and update status of previous requests

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

[**R4-2113738**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113738.zip) **Big CR to TS 38.104: Adding channel BW support in existing NR bands**

*Type: CR For: Agreement  
 38.104 v17.2.0 CR-0343 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This big CR will capture all draft CRs endorsed in RAN4#99-e meeting

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

[**R4-2113739**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113739.zip) **Big CR to TS 38.101-1: Adding channel BW support in existing NR bands**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0905 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This big CR will capture all draft CRs endorsed in RAN4#99-e meeting

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

#### 8.26.2 UE RF requirements

[**R4-2114584**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114584.zip) **Adding 25MHz CBW to Band n5**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document makes several proposal to introduce n5 25MHz channel bandwidth.

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

##### 8.26.2.1 Addition of bandwidth and Tx/Rx requirements

[**R4-2111745**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111745.zip) **Draft CR to 38.101-1 Introduction of Additional CBWs for Band n2**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: AT&T*

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

[**R4-2111746**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111746.zip) **Draft CR to 38.101-1 Introduction of 25MHz CBW for Band n5**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: AT&T*

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

[**R4-2112737**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112737.zip) **REFSENS of n71 for 25MHz and 30MHz channel bandwidth**

*Type: discussion For: Approval  
 Source: Murata Manufacturing Co Ltd.*

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

##### 8.26.2.2 NR-U 100MHz bandwidth

[**R4-2111835**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111835.zip) **Co-existence challenges with NR-U 100MHz channel bandwidth and other technologies in 5 GHz (n46) and 6 GHz (n96)**

*Type: Work Plan For: Approval  
 Source: Charter Communications, Inc*

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

[**R4-2112031**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112031.zip) **NR-U Punctured Channel SEM for 100 MHz Bandwidth**

*Type: discussion For: Approval  
 Source: CableLabs*

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

[**R4-2112301**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112301.zip) **NRU 100MHz SEM mask including wideband operation**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution, we discuss how to derive the SEM mask for wideband operation for 100MHz channels

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

[**R4-2112302**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112302.zip) **NRU 100MHz channelization**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we discuss channelization rules to derive the channel raster positions for 100MHz channels in bands n46 and n96 that are also valid for the European unlicensed band range of 5945-76425MHz

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

[**R4-2113067**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113067.zip) **100 MHz channel bandwidth for NR-U**

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

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

[**R4-2113664**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113664.zip) **Discussion of ACS requirement for NR-U CBW of 100MHz**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Mediatek India Technology Pvt.*

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

[**R4-2113937**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113937.zip) **Further discussion on the introduction of 100MHz for NR-U**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

[**R4-2114202**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114202.zip) **Introducing NR-U 100 MHz carrier bandwidth in bands n46 and n96**

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

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

#### 8.26.3 BS RF requirements

[**R4-2111747**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111747.zip) **Draft CR to 38.104 Introduction of Additional CBWs for Band n2**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: AT&T*

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

[**R4-2111748**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111748.zip) **Draft CR to 38.104 Introduction of 25MHz CBW for Band n5**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: AT&T*

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

### 8.27 Introduction of channel bandwidths 35MHz and 45MHz for NR

#### 8.27.1 General and Rapporteur Input (WID/TR/CR)

**Email discussion summary of [100-e][117] NR\_FR1\_35MHz\_45MHz\_BW, AI 8.27.1, 8.27.2, 8.27.3 – Liehai Liu**

[**R4-2114717**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114717.zip) **Email discussion summary for [100-e][117] NR\_FR1\_35MHz\_45MHz\_BW**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

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[**R4-2112023**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112023.zip) **bigCR to TS 38.101-1 - Introduction of 35MHz and 45MHz channel bandwidth**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0885 rev Cat: B (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

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

#### 8.27.2 UE RF requirements

[**R4-2111837**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111837.zip) **Draft CR to 38.101-1 Introduction of 35MHz CBW for Band n2**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: AT&T*

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

[**R4-2112024**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112024.zip) **Introduction of 35-45MHz CBW**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document is a companion discussion paper that captures the proposed changes in "[R4-2112023](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112023.zip)- bigCR to TS 38.101-1 - Introduction of 35MHz and 45MHz channel bandwidth".

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

[**R4-2112321**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112321.zip) **Unified REFSENS equation for all FR1 bands**

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

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

[**R4-2112322**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112322.zip) **Draft CR for specifying REFSENS based on the unified equation method**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

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

[**R4-2112323**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112323.zip) **Draft CR for specifying REFSENS based on the unified equation method**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: ZTE Wistron Telecom AB*

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

[**R4-2113040**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113040.zip) **REFSENS for asymmetric Uplink /Downlink**

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

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

[**R4-2113041**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113041.zip) **On REFSENS Table split and simplification**

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

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

#### 8.27.3 BS RF requirements

[**R4-2111838**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111838.zip) **Draft CR to 38.104 Introduction of 35MHz CBW for Band n2**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: AT&T*

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

[**R4-2113042**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113042.zip) **CR for TS 38.104: introduction of channel bandwidths 35MHz and 45MHz**

*Type: CR For: Agreement  
 38.104 v17.2.0 CR-0341 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113043**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113043.zip) **CR for TS 37.141: introduction of channel bandwidths 35MHz and 45MHz**

*Type: CR For: Agreement  
 37.141 v17.2.0 CR-0990 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113044**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113044.zip) **CR for TS 37.145-2: introduction of channel bandwidths 35MHz and 45MHz**

*Type: CR For: Agreement  
 37.145-2 v17.2.0 CR-0314 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113650**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113650.zip) **CR to TS 37.105: Introduction of 35 MHz and 45 MHz**

*Type: CR For: Agreement  
 37.105 v17.2.0 CR-0239 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Adding 35 and 45 MHz BW to TS 37.105

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

[**R4-2113651**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113651.zip) **CR to TS 38.141-1: Introduction of CBWs 35 MHz and 45 MHz**

*Type: CR For: Agreement  
 38.141-1 v17.2.0 CR-0241 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Adding 35 and 45 MHz BW to TS 38.141-1

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

[**R4-2113919**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113919.zip) **CR to TS 38.141-2: Introduction of 35MHz and 45MHz**

*Type: CR For: Agreement  
 38.141-2 v17.2.0 CR-0365 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2113920**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113920.zip) **CR to TS 37.145-1: introduction of 35MHz and 45MHz**

*Type: CR For: Agreement  
 37.145-1 v17.2.0 CR-0271 rev Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

[**R4-2114374**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114374.zip) **CR to 37.104: Introduction of requirements for 35 and 45MHz channel bandwidths**

*Type: CR For: Agreement  
 37.104 v17.2.0 CR-0949 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 8.27.4 RRM requirements

#### 8.27.5 UE demodulation and CSI requirements

[**R4-2112153**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112153.zip) **Simulation results for PDSCH demodulation requirements for 35MHz and 45MHz**

*Type: discussion For: Information  
 Source: China Telecom*

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

[**R4-2113805**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113805.zip) **draftCR on UE demodulation and CSI repopting for 35MHz and 45MHz channel bandwidth for FR1 FDD**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

### 8.28 Introduction of bandwidth combination set 4 (BCS4) for NR

**Email discussion summary of [100-e][118] NR\_BCS4\_MSD\_Inter\_Band\_ENDC, AI 8.28, 8.29 – Peng Zhang**

[**R4-2114718**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114718.zip) **Email discussion summary for [100-e][118] NR\_BCS4\_MSD\_Inter\_Band\_ENDC**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

#### 8.28.1 General and Rapporteur Input (WID/TR/CR)

[**R4-2112246**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112246.zip) **Proposals on BCS4 and BCS5**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

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

[**R4-2113095**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113095.zip) **BCS4 for SUL and intra-band NR-CA**

*Type: discussion For: Approval  
 Source: Xiaomi*

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

[**R4-2113422**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113422.zip) **General discussion on introduction of BCS4**

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

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

#### 8.28.2 UE RF requirements

[**R4-2111765**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111765.zip) **Clarification of BCS4/5 scope**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

[**R4-2114243**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114243.zip) **CR for 38.101-1: Introduction of BCS4 and BCS5**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0906 rev Cat: B (Rel-17)  
  
 Source: T-Mobile USA*

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

[**R4-2114244**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114244.zip) **CR for 38.101-2: Introduction of BCS4 and BCS5**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0420 rev Cat: B (Rel-17)  
  
 Source: T-Mobile USA*

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

[**R4-2114245**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114245.zip) **CR for 38.101-3: Introduction of BCS4 and BCS5**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0634 rev Cat: B (Rel-17)  
  
 Source: T-Mobile USA*

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

[**R4-2114246**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114246.zip) **CR for 38.307: Release independence of BCS4 and BCS5**

*Type: CR For: Agreement  
 38.307 v17.2.0 CR-0075 rev Cat: B (Rel-17)  
  
 Source: T-Mobile USA*

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

[**R4-2114247**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114247.zip) **BCS4 and BCS5 Discussion**

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

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

##### 8.28.2.1 MSD

[**R4-2111727**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111727.zip) **BCS4 MSD**

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

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

[**R4-2113421**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113421.zip) **Discussion on MSD due to Tx non-linearities interference in 1st and 2nd adjacent channel of UL band**

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

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

[**R4-2113423**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113423.zip) **Draft CR for 38.101-1 to simplify the MSD**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2114581**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114581.zip) **BCS4 - Improvements to MSD Tables**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document proposes capturing MSD due harmonic interference and due to cross-band isolation in a new format. This proposal could significantly reduce the number of specified MSD test points.

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

##### 8.28.2.2 Others (in case MPR/A-MPR is needed)

[**R4-2112914**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112914.zip) **Templates on BCS4/5**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

### 8.29 Addition of MSD (Maximum Sensitivity Degradation) for inter-band EN-DC combinations (1 band LTE+1 band NR FR1) due to added channel bandwidths

**Refer to email discussion summary of [100-e][118] NR\_BCS4\_MSD\_Inter\_Band\_ENDC, AI 8.28, 8.29 – Peng Zhang**

#### 8.29.1 General and Rapporteur Input (WID/TR/CR)

#### 8.29.2 UE RF requirements

[**R4-2113808**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113808.zip) **CR for 38.101-3 to introduce the missing MSD requirements (Rel-16)**

*Type: CR For: Agreement  
 38.101-3 v16.8.0 CR-0631 rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113809**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113809.zip) **CR for 38.101-3 to introduce the missing MSD requirements mirrorCR**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0632 rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

[**R4-2113810**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113810.zip) **CR for 38.101-3 to specify the MSD requirements for ENDC combinations (Rel-17)**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0633 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

#### 8.29.3 Others

### 8.30 High-power UE operation for use cases in Band n77 and n78

**Email discussion summary of [100-e][119] NR\_HPUE\_PC1\_5\_PC2, AI 8.30, 8.31, 8.32 – Gene Fong**

[**R4-2114719**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114719.zip) **Email discussion summary for [100-e][119] NR\_HPUE\_PC1\_5\_PC2**

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

**Abstract:**

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

**Discussion:**

**Decision: Return to.**

**GTW in 1st round**

**Sub-topic 1-1 Smartphone MPR**

* From last meeting, tentative MPR for Inner Waveforms was agreed as an example. Further data *if provided* should be considered.
* This meeting, further inputs from Huawei, LGE, T-Mobile and Qorvo, Skyworks. Data is averaged with together with previous proposals.
* Moderator proposal: Adopt the average value for inner MPR
  + Company objections because ET may require more backoff. But no data was provided. (Previous data set used in averaging already includes ET data)
* Moderator proposal: Adopt the average value for outer and edge MPR. Adjust the edge allocation to 4 RB’s.

**Discussions:**

Skyworks: Generally we are OK with averaged value to provide combined view. Some values need more checking to ensure the values can be met by all the architectures. If taking edge allocation we propose the extension of edge.

Huawei: We can see good progress from our side. We analyze the input from last meeting. We confirm the improvement. And we have good convergence on edge side MPR. Our main concern is the over-optimization. We have detailed comments in the email thread. The key point is that for PC1.5 dual Tx we do not define requirements implementation for single PA case. Any PC2 compliant UE should meet PC1.5 requirement of MPR.

Apple: Elaborate on ET comment. The reason is most companies provide values based on APT measurement. We found different performance between ET and APT in our measurement. If now using APT data, and taking average, the average value is not suitable for ET. We need some margin at the end.

LGE: for edge, we are quite aligned. We can accept inner and edge. But we need more time for outer.

Ericsson: we may need consider the impact on the network performance. We may include some implemtation which leads to degraded performance. RAN4 worse case method may not be good in terms of performance.

Verizon: we need close the work timely. We should not debate whether to use average method or not. At this time, we need continue to use this one as compromise. We can have further improvement in future.

**Agreement:**

* Use the average values as the starting point to derive inner and edge MPR values
  + Check each value to ensure the values can be met by all possible architectures
    - It does not mean to use average values for final requirement
    - Consider the impact on network performance
  + FFS for outer MPR values
  + Consider additional margin to accommodate ET implementation, if needed.
* Adjust the edge allocation to 4 PRBs

**Sub-topic 1-2 FWA MPR**

* One company provided measurements for FWA MPR (thank you!)
* Moderator proposal: Adopt the MPR table according to the provided measurements and their associated proposals. Adjust the edge allocation to 4RB’s.

**Discussions:**

Huawei: it is better to wait for the conclusion for smartphone. 0.5dB difference is small and even smaller when ET is used. We should consider how much improvement we can achieve. It is not necessary to define the additional values.

Skyworks: The feedback is FWA MPR is adjusted based on what smartphone averaged value. From our measurement, we did not see too much difference. But there is difference. FWA case, we can remove some factor. At least I support FWA MPR as tentative to finalize the work item.

Verizon: we fully agree with skyworks as package. We cannot wait for finalization of smart phone. We need finalize the whole package. We are not satisfied with all the data. We need conclusion as soon as possible.

Qualcomm: We should not wait for smartphone. We need finish all those.

Huawei: we have good progress on both MPRs. Sharing the same value between FWA and smartphone is the alternative way. If we need separate table for FWA, we need consider how much gain we can achieve. 0.5dB improvement.

Verzion: Enhancement is always allowed. In future, we can improve further.

Observation: Huawei have concern on the agreement.

**Agreement:**

* Define the separate MPR table for FWA
  + Adopt the MPR values with [ ] for FWA table, and companies are invited to check the values in this meeting.
* Adjust the edge allocation to 4PRBs
* RAN4 aims to complete the work for FWA in this meeting.

**Sub-topic 2-1 Device type signalling**

* Views expressed
  + Option 1: Dedicated device type signaling (type A, type B, etc) (Oppo if it can be used by the network, Apple, Skyworks, CMCC but limit to 2 types, Xiaomi, Verizon, AT&T, Qualcomm) – 8 companies
  + Option 2: Implicit signaling by a separate MPE duty cycle capability, if developed (Nokia, Samsung) – 2 company
  + Option 3: New power class to indicate FWA (Ericsson, LGE) – 2 company
  + Option 4: No signaling necessary, separate requirement for FWA is not needed (Huawei, vivo) – 2 companies
* Moderator proposal: Option 1 favored by majority of companies

**Discussions:**

Ericsson: We have concern on introduction of type is more complicated than introducing the new power class. RAN2 would have to implement the new device type. New power class is more simple.

Huawei: we do not see the necessity to define the new type. The previous agreement is that Option 1 is starting point and we also need take MPR evaluation into account. MPR requirements difference is small. What is the benefit to have the signaling for network? Network cannot know what exact the power UE transmit.

Skyworks: It is not our preference to define the new power class. We discuss the requirements based on form factor. We are not favor to define a lot of new UE type. If UE can indicate the form factor, it would be useful.

Nokia: We do not agree with option 3. Regarding option 1, if we limit to two, we do not see the necessity to introduce the new type capability.

OPPO: for option 1, Type A is smartphone and Type B is FWA? Whether the smartphone is included here? It is not necessary to only apply to FWA. It can be applied for CPE. We need clarification on the Type A and Type B.

Samsung: support Option 2. We are not sure which device will be introduced future. Given the progress on MPR, it is more feasible of Option 2.

Qualcomm: Support CMCC comments. We need focus on the parameters for signaling and send LS to RAN2.

Ericsson: favor option 3. It is easiest way to difference MPR tables.

T-Mobile: We can support Option1, we are fine with Option 3. Refer to regulation of MPE. It makes sense to use new power class.

LGE: In option 1, why do we need deferentiate smartphone and FWA. We do not need specific signaling for smartphone. Option 3 is right approach.

Huawei: Question for companies who support signaling: what do we want to signal? If the signaling is to separate smartphone and FWA, we can use the other method like SIM card. Network has other approach to differentiate the different devices. We do not see the need to define the signaling.

Ericsson: SIM card solution is more complicated than setting 1 bit signaling.

Apple: LGE proposal is interesting. Maybe we need two types.

**Sub-topic 3-1 FWA duty cycle capability**

* Option 1: Adopt the FR1 *maxUplinkDutyCycle-PC2-FR1* (SAR-based duty cycle) vivo
* Option 3: Adopt the hybrid *maxUplinkDutyCycle-FWA-FR1* (new signaling) Nokia, OPPO, Xiaomi, Huawei with added default value, Verizon, AT&T
* Moderator proposal: Option 3 new signaling favored by majority of companies

**Discussions:**

T-Mobile: I do not think it is needed.

Skyworks: It is important to check if duty cycle is associated with signaling of device type.

Huawei: we are not ready to agree on the word on the screen. We are OK with Option 3 but need some modification.

Vivo: support Option 3.

Ericsson: we do not support introducing signaling.

Samsung: we can further discussion details for option 3.

Apple: support Option 3. It can be combined with UE type signaling.

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

#### 8.30.1 General

[**R4-2112649**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112649.zip) **PC1.5 FWA device requirement**

*Type: discussion For: Approval  
 Source: Verizon Denmark*

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

[**R4-2113663**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113663.zip) **Introduction of new power class for FR1 FWA HPUE**

*Type: discussion For: Decision  
 Source: Ericsson*

**Abstract:**

suggestion to introduce a new PC for FR1 FWA HPUEs

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

#### 8.30.2 PC1.5 UE RF requirements

[**R4-2113424**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113424.zip) **CR for 38.101-3 to introduce the missing MSD requirements (Rel-16)**

*Type: CR For: Agreement  
 38.101-1 v16.8.0 CR-0901 rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

[**R4-2113425**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113425.zip) **CR for 38.101-3 to introduce the missing MSD requirements mirrorCR**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0902 rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

[**R4-2113426**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113426.zip) **CR for 38.101-3 to specify the MSD requirements for ENDC combinations (Rel-17)**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0626 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **withdrawn**.

##### 8.30.2.1 MPR and A-MPR

[**R4-2112334**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112334.zip) **Measurements for PC1.5 MPR**

*Type: discussion For: Approval  
 Source: T-Mobile USA*

**Decision:** The document was **revised to** [**R4-2114421**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114421.zip).

[**R4-2112961**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112961.zip) **Analysis MPR for inner region and EVM based on reverse IMD for PC1.5**

*Type: discussion For: Approval  
 Source: LG Electronics Inc.*

**Abstract:**

Provide our EVM Re-measurement results and propose new Inner MPR values for PC1.5.

**Decision:** The document was **not treated**.

[**R4-2114161**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114161.zip) **MPR for PC1.5 mobile UEs**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114421**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114421.zip) **Measurements for PC1.5 MPR**

*Type: discussion For: Approval  
 Source: T-Mobile USA, Qorvo*

(Replaces [R4-2112334](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112334.zip))

**Decision:** The document was **not treated**.

[**R4-2114556**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114556.zip) **PC1.5 MPR evaluation for FWA**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we present further measurements and discuss which aspects shall be considered carefully in optimizing the PC1.5 MPR.

**Decision:** The document was **not treated**.

##### 8.30.2.2 Device type signaling

[**R4-2112034**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112034.zip) **A way to distinguish FWA and smartphone with the same PC**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112372**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112372.zip) **Considerations on device type signalling for PC1.5**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2114162**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114162.zip) **Discussion on PC1.5 FWA device type signalling**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114221**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114221.zip) **Remaining open items for PC1.5 other than MPR**

*Type: discussion For: Approval  
 Source: Qualcomm Incorporated, Verizon*

**Decision:** The document was **not treated**.

[**R4-2114222**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114222.zip) **LS on signaling for power class 1.5**

*Type: LS out For: Approval  
 to RAN2  
 Source: Qualcomm Incorporated, Verizon*

**Decision:** The document was **not treated**.

##### 8.30.2.3 FWA MPE handling

[**R4-2112969**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112969.zip) **MPE handling for FR1 high power FWA UE**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2113000**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113000.zip) **Discussion on FWA MPE handling**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113907**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113907.zip) **R17 on PC1.5 FWA SAR**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

### 8.31 High power UE (power class 1.5) for NR band n79

#### 8.31.1 General

#### 8.31.2 UE RF requirements

##### 8.31.2.1 MPR

### 8.32 High power UE (power class 2) for NR band n39

**Refer to email discussion summary of [100-e][119] NR\_HPUE\_PC1\_5\_PC2, AI 8.30, 8.31, 8.32 – Gene Fong**

#### 8.32.1 General

#### 8.32.2 UE RF requirements

[**R4-2111769**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111769.zip) **Backward compatibility of an NS for n39 A-MPR for CBW < 25 MHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 8.32.2.1 A-MPR

[**R4-2111741**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111741.zip) **PC2 A-MPR for NS\_50 on n39**

*Type: other For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

PC2 A-MPR for NS\_50 on n39

**Decision: Revised to** [**R4-2114696**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114696.zip) **(from** [**R4-2111741**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111741.zip)**).**

[**R4-2114696**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114696.zip) **PC2 A-MPR for NS\_50 on n39**

*Type: other For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

PC2 A-MPR for NS\_50 on n39

**Decision: Return to.**

[**R4-2111768**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111768.zip) **n39 PC2 A-MPR for NS\_50**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112361**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112361.zip) **Considerations and A-MPR results for PC2 n39**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2114181**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114181.zip) **A-MPR for n39 NS\_50 PC2**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114207**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114207.zip) **Draft CR to TS 38.101-1: Addition of PC2 A-MPR for NS\_50**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon, CMCC*

**Decision:** The document was **not treated**.

### 8.33 High-power UE operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, Band 13, Band n5, Band n13, and Band n71

**Email discussion summary of [100-e][120] LTE\_NR\_HPUE\_FWVM, AI 8.33 – Man Hung Ng**

[**R4-2114720**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114720.zip) **Email discussion summary for [100-e][120] LTE\_NR\_HPUE\_FWVM**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2112794**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112794.zip) **FWA revised WID**

*Type: WID revised For: Information  
 Source: Nokia*

**Decision:** The document was **not treated**.

#### 8.33.1 General

#### 8.33.2 Feasibility study

##### 8.33.2.1 Coexistence study between B5 and adjacent bands

[**R4-2113853**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113853.zip) **Coexistence study between aggressor HPUE in B5 and Public Safety UE**

*Type: discussion For: Discussion  
 Source: Huawei Technologies France*

**Decision:** The document was **not treated**.

##### 8.33.2.2 Coexistence study between B13/n13 and adjacent bands

[**R4-2112276**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112276.zip) **Proposal on coexistence study for High-power UE Vs NB-IoT operation for fixed-wireless/vehicle-mounted use cases in Band 13 and Band n13**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell, Verizon*

**Abstract:**

This contribution provides some discussion and a proposal on the coexistence study for High-power UE Vs NB-IoT operation for fixed-wireless/vehicle-mounted use cases in Band 13 and Band n13.

**Decision:** The document was **not treated**.

##### 8.33.2.3 Filter with smaller duplex for B13, n13 and n71

[**R4-2114236**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114236.zip) **Cr for 37.880: n71 filter data**

*Type: CR For: Agreement  
 37.880 v17.0.0 CR-0001 rev Cat: B (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

##### 8.33.2.4 PA related to MPR and A-MPR for B13, n13, and n71

#### 8.33.3 UE RF requirements

##### 8.33.3.1 UE REFSENS

##### 8.33.3.2 UE Tx requirements (MOP, MPR, A-MPR, and ACLR)

### 8.34 SAR schemes for UE power class 2 (PC2) for NR inter-band Carrier Aggregation and supplemental uplink (SUL) configurations with 2 bands UL

**Email discussion summary of [100-e][121] NR\_PC2\_SUL\_CA, AI 8.34, 8.35, 8.37 – Bo Liu**

[**R4-2114721**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114721.zip) **Email discussion summary for [100-e][121] NR\_PC2\_SUL\_CA**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.34.1 General and Rapporteur Input (WID/TR/CR)

[**R4-2112491**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112491.zip) **CR to 38.101-1 Introduce SAR solution for UE power class 2 NR inter-band CA and SUL configurations**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0890 rev Cat: B (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

It is the last RAN4 meeting for this WI. The CR is to introduce dutycycle based SAR solution for CA and SUL

**Decision:** The document was **not treated**.

[**R4-2112492**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112492.zip) **LS on UE capability for UE power class 2 NR inter-band CA and SUL configurations**

*Type: LS out For: Approval  
 to RAN2  
 Source: China Telecom*

**Abstract:**

Send LS to RAN2 to add the dutycycle related UE capabilities.

**Decision:** The document was **not treated**.

#### 8.34.2 PC2 SAR solution

[**R4-2112490**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112490.zip) **Discussion on how to introduce SAR schemes for UE power class 2 NR inter-band CA and SUL configurations**

*Type: other For: Approval  
 Source: China Telecom*

**Abstract:**

It is the last RAN4 meeting for this WI. The CR is to introduce dutycycle based SAR solution for CA and SUL

**Decision:** The document was **not treated**.

[**R4-2112998**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112998.zip) **Further discussion on the dutycycle threshold calculation for HPUE with 2UL inter-band CA**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113904**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113904.zip) **R17 Inter band CA HPUE SAR**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 8.34.3 UE maximum power

[**R4-2111766**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111766.zip) **A way to increase UE maximum power for NR uplink inter band CA**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112047**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112047.zip) **Discussion on increasing maximum output power for UE PC2 CA**

*Type: discussion For: Approval  
 Source: Mediatek India Technology Pvt.*

**Decision:** The document was **not treated**.

[**R4-2112382**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112382.zip) **Clarifications on NR FR1 inter-band UL CA power class**

*Type: other For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2113305**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113305.zip) **Discussion on increasing UE maximum power high limit**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113903**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113903.zip) **R17 Discussion on UE power class high limit**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114209**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114209.zip) **Further Discussion on Higher UE Power Limits for Inter-band CA/DC**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.34.4 Others

### 8.35 High power UE (power class 2) for NR inter-band Carrier Aggregation with 2 bands downlink and 2 bands uplink

**Refer to email discussion summary of [100-e][121] NR\_PC2\_SUL\_CA, AI 8.34, 8.35, 8.37 – Bo Liu**

#### 8.35.1 Rapporteur Input (WID/TR/CR)

[**R4-2112493**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112493.zip) **Draft TR 38.841 v0.5.0: 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 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

draft TR for email approval

**Decision:** The document was **not treated**.

[**R4-2112494**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112494.zip) **Revised WID: High power UE for NR inter-band Carrier Aggregation with 2 bands downlink and x bands uplink (x =1,2)**

*Type: WID revised For: Endorsement  
 Source: China Telecom*

**Abstract:**

revised basket WID for email approval

**Decision:** The document was **not treated**.

[**R4-2112495**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112495.zip) **CR to 38.101-1 Introduce RF requirements for HPUE CA with 2 bands downlink and x bands uplink (x =1,2)**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0891 rev Cat: B (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

big CR for email approval

**Decision:** The document was **not treated**.

#### 8.35.2 UE RF requirements

[**R4-2111729**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111729.zip) **MSD for CA\_n12-n77, CA\_n14-n77, and CA\_n30-n77**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

[**R4-2111820**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111820.zip) **TP for TR 38.841 Addition of CA\_n12-n77**

*Type: pCR For: Approval  
 38.841 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

[**R4-2111821**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111821.zip) **TP for TR 38.841 Addition of CA\_n14-n77**

*Type: pCR For: Approval  
 38.841 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

[**R4-2111822**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111822.zip) **TP for TR 38.841 Addition of CA\_n30-n77**

*Type: pCR For: Approval  
 38.841 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

[**R4-2112019**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112019.zip) **TP to 38.841 MSD requirement due to harmonic mixing for PC2 CA\_n3A-n78A with up to 2 uplink**

*Type: pCR For: Approval  
 38.841 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

[**R4-2112896**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112896.zip) **CR to TS 38.101-1: Correction on PC2 1UL\_2DL table 6.2A.1.3-2**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0896 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2114241**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114241.zip) **Draft CR for 38.101-1 PC2 CA combinations**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

[**R4-2114242**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114242.zip) **TP for 38.841 DL CA combinations with single band uplink PC1.5**

*Type: pCR For: Approval  
 38.841 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

### 8.36 High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band

**Email discussion summary of [100-e][122] NR\_PC2\_EN-DC, AI 8.36, 8.38 – Per Lindell**

[**R4-2114722**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114722.zip) **Email discussion summary for [100-e][122] NR\_PC2\_EN-DC**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.36.1 Rapporteur Input (WID/TR/CR)

[**R4-2112471**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112471.zip) **Revised WID on High power UE (power class 2) for EN-DC with 1 LTE band + 1 NR TDD band**

*Type: WID revised For: Endorsement  
 Source: China Unicom*

**Decision:** The document was **not treated**.

[**R4-2112472**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112472.zip) **TR 37.826 v0.4.0 ENDC\_UE\_PC2\_R17\_NR\_TDD**

*Type: draft TR For: Approval  
 37.826 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **not treated**.

[**R4-2112473**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112473.zip) **Big CR on introduction of completed PC2 for EN-DC with 1 LTE band + 1 NR TDD band**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0617 rev Cat: B (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **not treated**.

#### 8.36.2 UE RF requirements

[**R4-2111730**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111730.zip) **MSD for DC\_12\_n77, DC\_14\_n77, and DC\_30\_n77**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

[**R4-2111817**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111817.zip) **TP for TR 37.826 Addition of DC\_12A\_n77A**

*Type: pCR For: Approval  
 37.826 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

[**R4-2111818**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111818.zip) **TP for TR 37.826 Addition of DC\_14A\_n77A**

*Type: pCR For: Approval  
 37.826 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

[**R4-2111819**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111819.zip) **TP for TR 37.826 Addition of DC\_30A\_n77A**

*Type: pCR For: Approval  
 37.826 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **not treated**.

### 8.37 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

**Refer to email discussion summary of [100-e][121] NR\_PC2\_SUL\_CA, AI 8.34, 8.35, 8.37 – Bo Liu**

#### 8.37.1 Rapporteur Input (WID/TR/CR)

[**R4-2114215**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114215.zip) **Revised WID on Rel-17 Power Class 2 UE for NR inter-band CA/DC with and without SUL configurations with x (6>=x>2) bands DL and y (y=1, 2) bands UL**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **not treated**.

#### 8.37.2 UE RF requirements

[**R4-2111823**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111823.zip) **TP for TR 38.842 Addition of CA\_n2-n5-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111824**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111824.zip) **TP for TR 38.842 Addition of CA\_n2-n12-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111825**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111825.zip) **TP for TR 38.842 Addition of CA\_n2-n14-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111826**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111826.zip) **TP for TR 38.842 Addition of CA\_n2-n30-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111827**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111827.zip) **TP for TR 38.842 Addition of CA\_n5-n12-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111828**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111828.zip) **TP for TR 38.842 Addition of CA\_n5-n14-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111829**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111829.zip) **TP for TR 38.842 Addition of CA\_n5-n30-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111830**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111830.zip) **TP for TR 38.842 Addition of CA\_n12-n30-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111831**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111831.zip) **TP for TR 38.842 Addition of CA\_n12-n66-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111832**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111832.zip) **TP for TR 38.842 Addition of CA\_n14-n30-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111833**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111833.zip) **TP for TR 38.842 Addition of CA\_n14-n66-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

[**R4-2111834**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111834.zip) **TP for TR 38.842 Addition of CA\_n30-n66-n77**

*Type: pCR For: Approval  
 38.842 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: AT&T*

**Decision:** The document was **withdrawn**.

### 8.38 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)

**Refer to email discussion summary of [100-e][122] NR\_PC2\_EN-DC, AI 8.36, 8.38 – Per Lindell**

#### 8.38.1 Rapporteur Input (WID/TR/CR)

[**R4-2113555**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113555.zip) **Revised WID EN-DC PC2**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

Revised WID EN-DC PC2

**Decision:** The document was **not treated**.

[**R4-2113561**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113561.zip) **CR 38.101-3 EN-DC PC2**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0629 rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR 38.101-3 EN-DC PC2

**Decision:** The document was **not treated**.

[**R4-2113565**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113565.zip) **TR 37.827 v0.1.0 ENDC\_PC2\_R17\_xLTE\_yNR**

*Type: draft TR For: Endorsement  
 37.827 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Version 0.1.0 including the updates from previous RAN4 meeting

**Decision:** The document was **not treated**.

[**R4-2113566**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113566.zip) **TR 37.827 v0.2.0 ENDC\_PC2\_R17\_xLTE\_yNR**

*Type: draft TR For: Endorsement  
 37.827 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Version 0.2.0 including updates from this meeting

**Decision:** The document was **not treated**.

#### 8.38.2 UE RF requirements

[**R4-2112651**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112651.zip) **DraftCR for adding PC2 configurations**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Verizon, AT&T, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112669**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112669.zip) **TP for TR 37.827 for DC\_66\_n66-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112670**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112670.zip) **TP to TR 37.717-21-11 for DC\_48-66\_n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112672**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112672.zip) **TP for TR 37.827 for DC\_13\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112673**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112673.zip) **TP for TR 37.827 for DC\_5\_n66-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112674**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112674.zip) **TP for TR 37.827 for DC\_5\_n5-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112676**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112676.zip) **TP for TR 37.827 for DC\_5\_n2-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112679**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112679.zip) **TP for TR 37.827 for DC\_2\_n66-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112681**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112681.zip) **TP for TR 37.827 for DC\_2-48\_n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2112684**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112684.zip) **TP for TR 37.827 for DC\_2\_n2-n77**

*Type: discussion For: Approval  
 Source: Verizon, Samsung*

**Decision:** The document was **not treated**.

[**R4-2114043**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114043.zip) **Text proposal for TR 37.827 to include DC\_1A-5A\_n78A**

*Type: discussion For: Approval  
 Source: Huawei Tech.(UK) Co.. Ltd*

**Decision:** The document was **not treated**.

[**R4-2114054**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114054.zip) **Text proposal for TR 37.827 to include DC\_1A-n7A\_n78A**

*Type: discussion For: Approval  
 Source: Huawei Tech.(UK) Co.. Ltd*

**Decision:** The document was **not treated**.

### 8.39 High power UE for NR TDD intra-band carrier aggregation in frequency range FR1

#### 8.39.1 General and Rapporteur Input (WID/TR/CR)

#### 8.39.2 UE RF requirements

### 8.40 Introduction of FR2 FWA UE with maximum TRP of 23dBm for band n259

#### 8.40.1 UE RF requirements

**Email discussion summary of [100-e][126] NR\_FR2\_FWA\_Bn259\_Bn257\_Bn258, AI 8.40.1 – Sumant Iyer**

[**R4-2114726**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114726.zip) **Email discussion summary for [100-e][126] NR\_FR2\_FWA\_Bn259\_Bn257\_Bn258**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

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[**R4-2111905**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111905.zip) **dCR to 38.101-2: PC5 requirements in n259**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

PC5 n259 RF requirements

**Decision:** The document was **not treated**.

[**R4-2112871**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112871.zip) **Remaining core part requirement for FWA**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision:** The document was **not treated**.

[**R4-2112970**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112970.zip) **FR2 PC5 requirements for n259**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2112974**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112974.zip) **Proposal on n259 PC5 min Peak EIRP, REFSENS, and beam correspondence**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal1: min peak EIRP of PC5 n259 is 26.7 dBm.

Observation2: Based on scaling concept, REFSENS of PC5 n259 shall be -89 dBm (CBW=50MHz, -1 dB SNR).

Proposal2: REFSENS of PC5 n259 shall be -89.2 dBm (CBW=50MHz, -1 dB SNR).

Proposal3: Introduce n259 PC5

**Decision:** The document was **not treated**.

[**R4-2113897**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113897.zip) **R17 n259 FWA**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114248**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114248.zip) **Power class 5 requirements for band n259**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

#### 8.40.2 RRM performance requirements

[**R4-2114465**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114465.zip) **Analysis of RRM requirements for FR2 FWA for band n259**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper analyzes the RRM core and performance requirements for FR2 FWA UE with maximum TRP of 23dBm for band n259

**Decision:** The document was **not treated**.

[**R4-2114466**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114466.zip) **RRM requirements for FR2 FWA for band n259 in 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR contains RRM core and performance requirements for FR2 FWA UE with maximum TRP of 23dBm for band n259

**Decision:** The document was **not treated**.

#### 8.40.3 Others

### 8.41 Additional NR bands for UL-MIMO

#### 8.41.1 General and Rapporteur Input (WID/TR/CR)

#### 8.41.2 MPR/A-MPR requirements

**Refer to email discussion summary of [100-e][127] NR\_RF\_FR1\_enh\_Part\_1\_HPUE\_ULMIMO, AI 9.3.1, 9.3.2.1, 9.3.2.4, 9.3.2.5, 9.3.2.6, 9.3.2.7.2, 8.39, 8.41 – Qian Zhang**

[**R4-2114523**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114523.zip) **On A-MPR requirements for UL MIMO bands**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.41.3 Others

### 8.42 Downlink interruption for band combinations to conduct dynamic Tx Switching

**Email discussion summary of [100-e][123] LTE\_NR\_Other\_basket, AI 8.42, AI 11.8 – Jin Wang**

[**R4-2114723**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114723.zip) **Email discussion summary for [100-e][123] LTE\_NR\_Other\_basket**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.42.1 General and Rapporteur Input (WID/TR/CR)

[**R4-2111924**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111924.zip) **TR 37.867 v0.4.0**

*Type: draft TR For: Approval  
 37.867 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112496**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112496.zip) **CR to 38.101-1 Introduce DL interruption clarification for CA conduting Tx Switching**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0892 rev Cat: B (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

big CR for email approval

**Decision:** The document was **not treated**.

#### 8.42.2 Determination of inter-band uplink CA and EN-DC combinations for which DL interruption is not allowed

#### 8.42.3 Others

### 8.43 Simultaneous Rx/Tx band combinations for CA, SUL, MR-DC and NR-DC

**Email discussion summary of [100-e][125] Simultaneous\_RxTx, AI 8.43 – Ye Liu**

[**R4-2114725**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114725.zip) **Email discussion summary for [100-e][125] Simultaneous\_RxTx**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.43.1 General and Rapporteur Input (WID/TR/CR)

#### 8.43.2 Applicability rule and criteria of simultaneous RX/TX

[**R4-2112833**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112833.zip) **Further suggestion on general principle for simultaneous Rx/Tx band combinations**

*Type: discussion For: (not specified)  
 Source: CHTTL*

**Decision:** The document was **not treated**.

[**R4-2112913**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112913.zip) **Further discussion on Simultaneous RxTx**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113304**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113304.zip) **Discussion on principle for simultaneous Rx Tx band combinations for CA, SUL, MR-DC and NR-DC**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113895**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113895.zip) **R17 Simultaneous RxTx and NW condition**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2113896**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113896.zip) **R17 simultaneous RxTx**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114515**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114515.zip) **On principles for deciding simultaneous RxTx capability**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114516**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114516.zip) **TP for TR 38.839: Principles for simultaneous RxTx capability**

*Type: pCR For: Approval  
 38.839 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 8.43.3 Identification of simultaneous Rx/Tx capability for band combinations

[**R4-2112886**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112886.zip) **draft CR for updating the note of mandatory simultaneous Rx/Tx capability for Rel.17 FR1 EN-DC combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp.*

**Decision:** The document was **withdrawn**.

[**R4-2112960**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112960.zip) **draft CR for updating the note of mandatory simultaneous Rx/Tx capability for Rel.17 FR1 NR-CA combinations**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CHTTL, SoftBank Corp., NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

[**R4-2112962**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112962.zip) **draft CR for updating the note of mandatory simultaneous Rx/Tx capability for Rel.17 FR1 EN-DC combinations**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: SoftBank Corp., NTT DOCOMO, INC., CHTTL*

**Decision:** The document was **not treated**.

[**R4-2112963**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112963.zip) **draft CR for updating the note of mandatory simultaneous Rx/Tx capability for Rel.17 FR1+FR2 NR CA and EN-DC combinations**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CHTTL, SoftBank Corp., NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

[**R4-2112964**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112964.zip) **draft CR for updating the note of mandatory simultaneous Rx/Tx capability for Rel.17 FR1+FR2 NR CA and EN-DC combinations**

*Type: draftCR For: Approval  
 38.101-3 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CHTTL, SoftBank Corp., NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

### 8.44 LTE/NR spectrum sharing in Band 34/n34 and Band 39/n39

**Email discussion summary of [100-e][124] NR\_DSS\_34\_39, AI 8.44 – Shao Zhe**

[**R4-2114724**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114724.zip) **Email discussion summary for [100-e][124] NR\_DSS\_34\_39**

*Type: other For: Information  
 Source: Moderator (CMCC)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 8.44.1 General

#### 8.44.2 Introduction of uplink 7.5KHz frequency shift

[**R4-2112192**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112192.zip) **Introduction of uplink 7.5KHz frequency shift for n34 and n39**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112193**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112193.zip) **Draft CR to TS 38.101-1 on introduction of UL 7.5KHz frequency shift for n34 and n39**

*Type: draftCR For: Approval  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112194**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112194.zip) **Draft CR to TS 38.104 on introduction of UL 7.5KHz frequency shift for n34 and n39**

*Type: draftCR For: Approval  
 38.104 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112195**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112195.zip) **Draft CR to TS38.307 on introduction of UL 7.5KHz frequency shift for n34 and n39**

*Type: draftCR For: Approval  
 38.307 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112346**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112346.zip) **UL 7.5kHz shift for spectrum sharing in band 34/n34 and band 39/n39**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2114376**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114376.zip) **Introduction of the UL 7.5kHz shift for NR TDD band n34 and n39**

*Type: CR For: Agreement  
 38.101-1 v15.14.0 CR-0909 rev Cat: B (Rel-15)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2114377**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114377.zip) **Introduction of the UL 7.5kHz shift for NR TDD band n34 and n39**

*Type: CR For: Agreement  
 38.101-1 v16.8.0 CR-0910 rev Cat: B (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2114378**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114378.zip) **Introduction of the UL 7.5kHz shift for NR TDD band n34 and n39**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0911 rev Cat: B (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

## 9 Rel-17 non-spectrum related work items for NR

### 9.1 Multiple Input Multiple Output (MIMO) Over-the-Air (OTA) requirements for NR UEs

#### 9.1.1 General

#### 9.1.2 Performance requirements

##### 9.1.2.1 Performance Requirements for FR1

##### 9.1.2.2 Performance Requirements for FR2

#### 9.1.3 Testing methodologies

##### 9.1.3.1 Testing parameters for Performance

##### 9.1.3.2 Optimization of test methodologies

##### 9.1.3.3 Channel model validation

### 9.2 Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC)

#### 9.2.1 General and work plan

#### 9.2.2 SA test methodology

#### 9.2.3 EN-DC test methodology

#### 9.2.4 UE with multiple antennas test methodology

#### 9.2.5 Others

### 9.3 RF requirements enhancement for NR frequency range 1 (FR1)

#### 9.3.1 General

**Email discussion summary of [100-e][127] NR\_RF\_FR1\_enh\_Part\_1\_HPUE\_ULMIMO, AI 9.3.1, 9.3.2.1, 9.3.2.4, 9.3.2.5, 9.3.2.6, 9.3.2.7.2, 8.39, 8.41 – Qian Zhang**

[**R4-2114727**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114727.zip) **Email discussion summary for [100-e]****[127] NR\_RF\_FR1\_enh\_Part\_1\_HPUE\_ULMIMO**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**GTW in 1st round**

**Sub topic 2-1: MPR comparison among architecture options**

**Issue 2-1-2: whether MPR requirements are separate defined for different architecture?**

* Option 1: (2 companies)
  + Architecture #2 and #3 will use separate MPR values in the specification (table or delta) and address both TxD and UL MIMO modes.
  + For architecture #1 and #4, General MPR table is based on the 2LO 2xPC2 PA architecture and a 1.5dB additional MPR allowed for 2LO PC3+PC2 architecture
* Option 2: (1 company)
  + RAN4 will specify the one MPR Table to support the PC2 simultaneous UL CA + UL MIMO with 2 transmit for 1 LO RF architecture.
  + RAN4 will specify the one MPR Table to support the PC2 intra-band NC-CA UE for 2 Los RF architecture based on the #4 RF architecture.
* Option 3: (2 companies)
  + Define one set of MPR across 4 architectures, use the worst case value across architectures to define MPR for non-contiguous CA
* Option 4(1 company, during discussion):
  + MPR can be different based on dualPA and dualPA is coupled with number of LO’s.

*Moderator note: it means one set MPR for arch #1 and #4, and one set MPR for arch#2 and arch#3.*

* + Architecture #2 and #3 should have same MPR table.
  + For MPR set of arch#1 and #4, arch #1 should be baseline.
  + CA+UL MIMO should be handled in the part for UL CA + MIMO

**Discussions:**

Skyworks: we should take average values rather min values. We do not agree that the same MPR will be applied to arch#1 and #4.

Apple: we prefer one set. Need some clarification on the bandwidth.

LGE: we prefer to define one set of MPR values regardless of arch. As compromise, we can accept two sets of MPR requirements. As mentioned by skyworks, arch #1 and arch #4, 0.5 difference is quite small. It is possible to consider one set of requirements for arch #1 and #4.

Skyworks: to Apple, the reason for arch #2 and #3 is mainly to support ul-mimo. So we suggest the same MPR considering UL MIMO. Is it the common understanding that arch #2 and #3 mainly target to supporting ul-mimio and UL NC CA?

Huawei: we prefer to separate discussion between UL-MIMO and UL CA.

Nokia: NC UL CA should be based on #1 and #4.

Moderator: propose to define two sets of MPR values.

Skyworks: whether the requirement of first set for arch #2 and #3 is applicable to CA+ULMIMO.

Nokia: we prefer first set for arch#1 and arch#4.

Qualcomm: Agree with Nokia on LO assumption. There is issue for arch#4 with switching time.

Apple: Suggest the separate discussion for UL CA without UL-MIMO and UL CA with UL-MIMO.

LGE: support Nokia and Apple comment. We should focus on Arch#1 and #4. Arch #2 and #3 is difficult to support wider CBW.

**Agreement**: For intra-band UL NC CA, have further discussion of MPR values assuming two sets of MPR values

* Discuss Set #1 considering arch #1 and #4
* Discuss Set #2 considering arch #2 and #3
* Decide how to specify the final MPR table after stabilizing the values for Set #1 and Set #2.

**Sub-topic 2-2: Other requirements related to different Architectures**

**Issue 2-2-1: For 1x26dBm PA + 1LO with 200MHz BW and 2x23dBm PA + 1LO with 200MHz BW, how to handle in-gap requirement when LO or image fall inside?**

* Option 1: (4 companies)
  + No OOBE exception requirement for architecture #2 and #3, use moderate MPR to reach the in-gap requirement
    - Assume IQ suppression>=32dBc, LO leakage>=35dBc
* Option 2: (3 companies)
  + In-gap exceptions are only allowed for CC configurations where the gap bandwidth is less or equal than the two CC aggregated bandwidth thus SEM is -13dBm/MHz in gap and shall be met
  + 3dB ACLR in gap relaxation is allowed and assumes
  + In-gap exceptions are only allowed for UEs also supporting UL MIMO or TxD together with NC UL CA

**Discussions:**

Skyworks: the gap is smaller than bandwidth, in that case, we do not need to look into any exception. For Option1 with 3dBc, you can meet the requirement. Two options are very close. In Option 2, we restrict configuration. Only exception is 3dB ACLR.

Huawei: this is issue how the MPR is moderate enough. 14dB MPR can solve the problem.

Qualcomm: for PC3 we have exception. Do you mean keeping it for PC3 while removing exception for PC2.

Huawei: we want to remove exception for both PC3 and PC2.

LGE: we need further checking suppression and LO leakage, whether they can be supported.

Nokia: We simulate according skyworks option1. Other case was not studied.

Skyworks: 35dBc only works when 14dB in the middle. What if happen LO leakage and suppression degrade. We should look into masks.

Huawei: worst case is -27. The current simulations are not enough. 40dBc would be needed.

**Agreement:** For 1x26dBm PA + 1LO with 200MHz BW and 2x23dBm PA + 1LO with 200MHz BW, to handle in-gap requirement when LO or image fall inside

* No exception requirement is allowed assuming
* SEM for in-gap is -13dBm/MHz and in-gap is less or equal to aggregated bandwidth
* Applicable for PC3 and PC2
* Further checking is needed
* Further study whether IQ suppression >=32dBc is feasible.
* Further check the case where spurious emission is lower than -13dBm/MHz
* If IQ suppression >=32dBc is not feasible, we need further discussion whether there is no exception allowed
* Further check the case when in-gap is larger than the aggregated bandwidth

**Sub topic 3-1: RF requirements**

**Issue 3-1-1: MPR requirement for PC3 UL contiguous CA +MIMO with 2 PC3 PA+1LO**

* Proposals
  + Option 1: Adding 0.5dB delta MPR on outer allocation(outer1 and outer2 for NC allocation, outer for C allocation) based on the MPR defined for PC3 contiguous CA. (3 companies)
  + Option 2: Reuse the MPR for PC3 contiguous CA with 1Tx (4 companies)
* Potential WF: Reuse the MPR for PC3 contiguous CA with 1Tx as a starting line.

**Discussions:**

Skyworks: OK to reuse MPR requirements for PC3.

**Agreement**: Reuse the MPR for PC3 contiguous CA with 1Tx.

**Issue 3-1-2: MPR requirement for PC2 UL contiguous CA +MIMO with 2 PC2 PA+1LO or 2 PC3 PA+1LO**

* Proposals
  + Option 1: Adding 0.5dB delta MPR on outer1 and outer2 allocation based on the MPR defined for PC2 contiguous CA with 1PA.(3 companies)
  + Option 2: an additional 0.5 to 1dB MPR can be anticipated for PC2 contiguous UL CA realized with 1LO+2xPC3 PA compared to agreed MPR for 1LO/1PA PC2 case(for all allocations) (1 company)
  + Option 3(during discussion): No additional MPR compared with 1Tx PC2 contiguous CA is needed (1 company)

**Discussions:**

Skyworks: we need delta MPR for PC2.

Apple: can we focus on 1CC case first. 1CC with 2Tx UL-MIMO for PC2. Defer the discussion for CA+MIMO+PC2.

Skyworks: Delta MPR applies for the case when there are two PC3 PAs.

**Agreement:**

* Additional delta MPR is needed for UL contiguous CA+MIMO with 2 PC3 PA+1LO compared to 1Tx PC2
* Additional 0.5dB MPR is needed for outer allocation
* FFS for inner PRB allocation
* Re-check the agreement above after finalizing the work for 1CC with 2Tx UL-MIMO for PC2

**Sub topic 3-2: signalling**

**Issue 3-3-1: Signaling problems**

* 1: In currently capability definition, if UL-MIMO support were reported in the CCs for CA, theoretically CA and UL-MIMO should be supported simultaneously unless stated otherwise.

For better understanding, copy more from vivo contribution who raise this problem:

***Observation 3:*** *There exists some architecture, though not necessarily typical, can support CA and UL-MIMO respectively but not simultaneously. These implementations are somewhat contradicting with current signalling scheme.*

***Observation 4:*** *Keep current signalling unchanged may preclude some implementations which is not typical.*

* 2: There is only one ca-BandwidthClassUL-NR capability reported for each BC entry, and RAN2 NW is not required to derive UE capability based on multiple band combination entries.
* 3: Reporting different aggregated CBW in two band combinations for CA only and CA+UL MIMO is not feasible.

**Discussions:**

OPPO: it is related to case to support large bandwidth when UE has one PA. Maybe there is some UE which can support CA with 100Mhz but support CA+UL-MIMO with less bandwidth.

Skyworks: what we need to make sure whether UE can cover all the bandwidth classes if UE has two PC3 PAs.

VIVO: We also analyze the same scenario. During the email discussion, Huawei clarify that for the situation described UE can support multi-layer in single CC and support 1-layer in multiple CCs. But UE cannot support two cases simultaneously.

Huawei: the key issue is how gNB account according to RAN2. This RAN2 agreement is specific for how gNB to account the current bandwidth capability from fallback band capability. For the same band combination, UE can report two entries.

OPPO: we analyze the multiple entries in our paper. For a band combination, all the information should be included in one entry. We need to confirm with RAN2 for one band combination with two capabilities whether it is OK.

ZTE: our view is aligned with OPPO that RAN2 signaling does not support it.

China Telecom: potential issue mentioned by OPPO is for UE which does not support bandwidth class C. Do we need consider other bandwidth class? For now for bandwidth class C, we do not need additional signaling.

**Agreement**:

* Send LS to RAN2 to check whether there is problem of existing signalling to report the supported bandwidth class for supported intra-band contiguous CA+UL MIMO.
* FFS whether to include intra-band non-contiguous CA+UL MIMO in LS
* OPPO provide revised draft LS.

**Conclusions after 1st round:**

**R4-2114754 LS on signalling for CA + UL-MIMO**

*Type: other For: Approval  
 Source: OPPO*

**Abstract:**

This contribution provides the LS on signalling for CA+UL-MIMO.

**Discussion:**

**Decision: Return to.**

**Conclusions after 2nd round:**

#### 9.3.2 RF core requirements

##### 9.3.2.1 UL MIMO configuration for SUL band configurations

##### 9.3.2.2 2Tx switching between carrier 1 and carrier 2

**Email discussion summary of [100-e][128] NR\_RF\_FR1\_enh\_Part\_2, AI 9.3.2.2, 9.3.2.3, 9.3.2.7.1 – Shan Yang**

[**R4-2114728**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114728.zip) **Email discussion summary for [100-e][128] NR\_RF\_FR1\_enh\_Part\_2**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**GTW in 1st round:**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

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[**R4-2112228**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112228.zip) **Discussion on UL MIMO coherence for Rel-17 Tx switching**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

[**R4-2112824**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112824.zip) **Draft LS on modification of Pcmax for UL CA with uplink Tx switching capability**

*Type: LS out For: Approval  
 to RAN  
 Source: Ericsson*

**Abstract:**

Draft LS to inform RAN on the implementation of the CR endorsed at RAN#91-e (implemented in the latest version by RAN4 for RAN#93-e)

**Decision:** The document was **not treated**.

##### 9.3.2.3 Tx switching between 1 carrier on band A and 2 contiguous aggregated carriers on band B

##### 9.3.2.4 HPUE for TDD intra-band contiguous UL CA

[**R4-2114493**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114493.zip) **on intra-band contiguous CA MPR requirement**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114498**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114498.zip) **CR on PC2 intra-band UL contiguous CA RF requirements**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0913 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon,Skyworks*

**Decision:** The document was **not treated**.

##### 9.3.2.5 HPUE for TDD intra-band non-contiguous UL CA

[**R4-2112022**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112022.zip) **PC2 Intra-band UL NC CA MPR Simulations with 1PA**

*Type: discussion For: Discussion  
 Source: Nokia Corporation*

**Decision:** The document was **not treated**.

[**R4-2112893**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112893.zip) **MPR requirements and other remaining issues for PC2 intra-band NC CA UE**

*Type: discussion For: Approval  
 Source: LG Electronics France*

**Abstract:**

we provide our view on the remaining open issues such as swapping time for architecture #4 and how to specify MPR requirements according to RF architectures.

**Decision:** The document was **not treated**.

[**R4-2114494**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114494.zip) **on intra-band UL NC CA architecture and MPR**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114571**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114571.zip) **Proposal for non-baseline PC2 NC UL CA architectures**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution, we further discuss from our last meeting paper [1] how to dimension the exceptions needed to enable the non-baseline architectures for PC2 NC UL CA in order to make them valuable options for the specification.

**Decision:** The document was **not treated**.

##### 9.3.2.6 Intra-band UL contiguous CA for UL MIMO (n41C and n78C)

[**R4-2112324**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112324.zip) **Capability signaling for combining UL-MIMO and UL intraband contiguous CA**

*Type: discussion For: Approval  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

[**R4-2113024**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113024.zip) **Discussion on Intra-band UL contiguous CA for UL-MIMO Capability Signaling**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113898**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113898.zip) **R17 FR1 UL CA with MIMO and draft LS**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114470**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114470.zip) **CR on contiguous CA with UL MIMO for power class 3**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0912 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114491**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114491.zip) **on CA+MIMO RF requirement**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114564**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114564.zip) **2Tx PC2 contiguous UL CA back-off evaluation for TxD and UL MIMO**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we present UL CA PC2 2Tx measurements based on 2 PC3 PAs that are compared with 1TX PC3 and PC2 measurements and also discuss waveform choice for SD-CDD to also cover TxD on top of UL MIMO.

**Decision: Revised to** [**R4-2114692**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114692.zip) **(from** [**R4-2114564**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114564.zip)**).**

[**R4-2114692**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114692.zip) **2Tx PC2 contiguous UL CA back-off evaluation for TxD and UL MIMO**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we present UL CA PC2 2Tx measurements based on 2 PC3 PAs that are compared with 1TX PC3 and PC2 measurements and also discuss waveform choice for SD-CDD to also cover TxD on top of UL MIMO.

**Decision: Return to.**

##### 9.3.2.7 Evaluation according to RAN task

###### 9.3.2.7.1 Clarification of Tx switching scenarios

[**R4-2112825**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112825.zip) **Draft LS on TX switching with multiple TAG**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Ericsson*

**Abstract:**

Draft LS to RAN1 and RAN2 to ask about possible impact on RAN1 and RAN2 specification of a removal of the single-TAG restriction for CA

**Decision:** The document was **not treated**.

###### 9.3.2.7.2 Solution for Scell dropping

[**R4-2112383**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112383.zip) **Views on SCell dropping for UL CA**

*Type: other For: Approval  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112811**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112811.zip) **Introduction of power limits for serving cells of UL CA**

*Type: draftCR For: Endorsement  
 38.101-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to introduce power limits for serving cells of UL CA to prevent power reduction of serving cells for power limited UEs when the power reduction is enabled (FR1)

**Decision:** The document was **not treated**.

[**R4-2112812**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112812.zip) **Introduction of power limits for serving cells of UL CA**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to introduce power limits for serving cells of UL CA to prevent power reduction of serving cells for power limited UEs when the power reduction is enabled (FR1)

**Decision:** The document was **not treated**.

[**R4-2112813**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112813.zip) **LS on power limits for serving cells of UL CA**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Ericsson*

**Abstract:**

Draft LS to RAN1 and RAN2 to ask for specification of a RRC configured UE-specific power limits on a serving cell and a MAC-CE to enable/disable these limits per cell, RAN1 for information and possible comments

**Decision:** The document was **not treated**.

[**R4-2112816**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112816.zip) **Introduction of power limits for serving cells of UL CA**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to introduce power limits for serving cells of UL CA to prevent power reduction of serving cells for power limited UEs when the power reduction is enabled (FR2)

**Decision:** The document was **not treated**.

[**R4-2112817**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112817.zip) **Introduction of power limits for serving cells of UL CA**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to introduce power limits for serving cells of UL CA to prevent power reduction of serving cells for power limited UEs when the power reduction is enabled (FR2)

**Decision:** The document was **not treated**.

[**R4-2112826**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112826.zip) **Resolution of the Scell dropping (power reduction) problem**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Background to the solution of the Scell power prioritization problems by means of serving cell power limits (both FR1 and FR2 explained)

**Decision:** The document was **not treated**.

[**R4-2113890**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113890.zip) **R16 discussion on SCC drop**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114468**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114468.zip) **Adding new objective to Rel-17 FR1 WI to prevent scell dropping for CA**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114551**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114551.zip) **Delta Pcell parameter to solve SCell dropping issue**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 9.3.3 RRM core requirements

##### 9.3.3.1 Tx switching requirements

### 9.4 NR RF requirement enhancements for frequency range 2 (FR2)

#### 9.4.1 General

**Email discussion summary of [100-e][129] NR\_RF\_FR2\_req\_enh2\_Part\_1, AI 9.4.1, 9.4.2, 9.4.4, 9.4.5 –Petri Vasenkari**

[**R4-2114729**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114729.zip) **Email discussion summary for [100-e][129] NR\_RF\_FR2\_req\_enh2\_Part\_1**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**GTW in 1st round:**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

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[**R4-2112793**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112793.zip) **TR 38.851-0.2.0**

*Type: draft TR For: Approval  
 38.851 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112901**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112901.zip) **On Simultaneous RxTx capability for FR2 inter-band CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2112902**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112902.zip) **Draft CR to TS 38.101-2: On Simultaneous RxTx capability for FR2 inter-band CA**

*Type: draftCR For: Endorsement  
 38.101-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2112903**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112903.zip) **Draft CR to TS 38.101-2: On Simultaneous RxTx capability for FR2 inter-band CA**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 9.4.2 UE RF requirements for inter-band CA

[**R4-2112369**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112369.zip) **draftCR to 38.101-2 on the definition for inter-band DL CA CBM and Beam Management Reference Signal location for FR2 CA**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

##### 9.4.2.1 Inter-band DL CA requirements

[**R4-2112371**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112371.zip) **Inter-band DL CA based on CBM for FR2**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2114487**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114487.zip) **inter-band CA DL CA with CBM**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

###### 9.4.2.1.1 Applicability of CBM/IBM for different CA configurations

###### 9.4.2.1.2 CA\_n258A-n260A and CA\_n257A-n259A based on IBM

###### 9.4.2.1.3 CA configurations within the same frequency group based on CBM

[**R4-2112335**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112335.zip) **Discussion on CBM based inter-band DL CA within same frequency group**

*Type: discussion For: (not specified)  
 Source: LG Electronics*

**Abstract:**

It discusses RF requirements for CBM based inter-band DL CA.

**Decision:** The document was **not treated**.

[**R4-2112791**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112791.zip) **CBM considerations on Fs\_inter\_CBM**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112872**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112872.zip) **UE requirements for CBM**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision:** The document was **not treated**.

[**R4-2112900**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112900.zip) **Discussion on CBM for FR2 Inter-band DL CA**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113002**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113002.zip) **Discussion on CBM requirement framework within same frequency group**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113026**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113026.zip) **Proposal on inter-band DL CA based on CBM within the same frequency group**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal1: Introduce “Fs\_Inter\_CBM” for inter-band DL CA based on CBM within the same frequency group.

Proposal2: Different frequency groups can report different “Fs\_Inter\_CBM” values.

Observation: for inter-band DL CA within the same frequency group base

**Decision:** The document was **not treated**.

[**R4-2113096**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113096.zip) **Rx requirements for inter-band DL CA with CBM within same frequency group**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113901**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113901.zip) **R17 FR2 CBM Inter-band DL CA within same frequency group**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

##### 9.4.2.2 Inter-band UL CA requirements

###### 9.4.2.2.1 Inter-band UL CA for two bands

[**R4-2112283**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112283.zip) **Definition of FR2 MPR and spherical coverage for ULCA**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Discusses FR2 MPR and spherical coverage for ULCA

**Decision:** The document was **not treated**.

[**R4-2112575**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112575.zip) **Discussion on FR2 inter-band UL CA**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2112873**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112873.zip) **UE UL CA requirements based on IBM**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision:** The document was **not treated**.

[**R4-2113006**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113006.zip) **Disscussion on inter-band UL CA**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113097**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113097.zip) **Tx requirements for inter-band UL CA between different frequency groups based on IBM**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

###### 9.4.2.2.2 CA configuration CA\_n257A-n259A based on IBM

[**R4-2112336**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112336.zip) **RF requirements for CA\_n257A\_n259A based on IBM**

*Type: discussion For: (not specified)  
 Source: LG Electronics*

**Abstract:**

It discusses RF requirements for IBM based inter-band UL CA\_n257-n259.

**Decision:** The document was **not treated**.

[**R4-2113031**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113031.zip) **Proposal on min peak EIRP relaxation of Inter-band UL CA of CA\_n257-n259 based on IBM**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal: min peak EIRP relaxation of Inter-band UL CA of CA\_n257-n259 based on IBM is 9 dB.

**Decision:** The document was **not treated**.

[**R4-2113902**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113902.zip) **R17 FR2 IBM Inter-band UL CA peak EIRP and spherical coverage**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114061**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114061.zip) **On FR2 inter-band UL CA for different frequency group based on IBM**

*Type: pCR For: Approval  
 38.851 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.4.2.3 Feasibility study for DL inter-band CA

###### 9.4.2.3.1 Study for CBM between different frequency groups

[**R4-2111903**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111903.zip) **Requirement framework for Inter-band CA with CBM**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Discussion on beam management ref. signal location, PSD difference and requirement framework for CBM UEs

**Decision:** The document was **not treated**.

[**R4-2112337**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112337.zip) **Discussion on feasibility for inter-band DL CA**

*Type: discussion For: (not specified)  
 Source: LG Electronics*

**Abstract:**

It discusses feasibility for CBM based inter-band DL CA within different frequency group.

**Decision:** The document was **not treated**.

[**R4-2112576**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112576.zip) **Requirements and UE capability discussion on inter-band DL CA**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2112634**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112634.zip) **RF requirements for CA\_n260-n261 with CBM**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO, INC.*

**Abstract:**

To discuss feasibility and RF requirements for CA\_n260-261 with CBM.

**Decision:** The document was **not treated**.

[**R4-2112875**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112875.zip) **Applicability for CBM UEs for different frequency group**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Decision:** The document was **not treated**.

[**R4-2112975**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112975.zip) **Proposal on inter-band DL CA based on CBM between different frequency groups**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal1: Single-chain architecture is NOT feasible for inter-band DL CA based on CBM between different frequency groups based on state-of-the-art, and shall be excluded during corresponding discussion.

Observation: For inter-band DL CA between different

**Decision:** The document was **not treated**.

[**R4-2113003**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113003.zip) **Discussion on feasibility of CBM between different frequency group**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113098**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113098.zip) **Rx requirements for inter-band DL CA with CBM between different frequency groups**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

###### 9.4.2.3.2 Study for IBM within the same frequency group

#### 9.4.3 UL gaps for self-calibration and monitoring

**Email discussion summary of [100-e][130] NR\_RF\_FR2\_req\_enh2\_Part\_2, AI 9.4.3, 9.4.6.3 – Yang Tang**

[**R4-2114730**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114730.zip) **Email discussion summary for [100-e][130] NR\_RF\_FR2\_req\_enh2\_Part\_2**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**GTW in 2nd round:**

**Conclusions after 2nd round:**

##### 9.4.3.1 Gap use cases and performance evaluation

[**R4-2113004**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113004.zip) **Discussion on UL gap for coherent MIMO**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113212**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113212.zip) **Discussion on UL gap for coherent UL MIMO use case**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113662**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113662.zip) **On UL calibration gaps for coherent UL MIMO**

*Type: discussion For: Decision  
 Source: Ericsson, Sony*

**Abstract:**

Observations and open issues and question on coherent UL MIMO calibration gaps

**Decision:** The document was **not treated**.

[**R4-2114492**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114492.zip) **on FR2 UL gap for coherence calibration**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114555**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114555.zip) **Ul gaps test configuration**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **withdrawn**.

[**R4-2114577**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114577.zip) **UL gaps test configuration**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 9.4.3.2 UE Tx power management

[**R4-2112088**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112088.zip) **UL gaps for Tx power management RF aspect**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112635**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112635.zip) **RF requirements and NW configuration for UL gap**

*Type: other For: Approval  
 Source: NTT DOCOMO, INC.*

**Abstract:**

To clarify RF requirements (test cases) and NW configuration for UL gap.

**Decision:** The document was **not treated**.

[**R4-2112808**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112808.zip) **Requirements and test cases of UE FR2 UL Gap for UE Tx power enhancement**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2113005**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113005.zip) **Discussion on UL gap for Tx power management**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113211**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113211.zip) **Discussion on UL gap for Tx power management**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113661**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113661.zip) **Test considerations on UL calibration gaps for BPS**

*Type: discussion For: Decision  
 Source: Ericsson, Sony*

**Abstract:**

Furter consideration on BPS calibration gaps

**Decision:** The document was **not treated**.

[**R4-2113900**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113900.zip) **R17 FR2 UL gap for power management**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

##### 9.4.3.3 Others

#### 9.4.4 DC location for intra-band UL CA with > 2 CCs for both FR2 and FR1

[**R4-2111772**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111772.zip) **DC location reporting method and exception handling**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2113007**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113007.zip) **Discussion on DC location for intra-band UL CA**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113899**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113899.zip) **R17 DC reporting**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114548**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114548.zip) **DC location offset framework**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 9.4.5 CA BW classes

##### 9.4.5.1 New FR2 CA BW classes

[**R4-2112648**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112648.zip) **FR2 bandwidth class in Rel-17**

*Type: discussion For: Approval  
 Source: Verizon, MediaTek*

**Decision:** The document was **not treated**.

[**R4-2112729**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112729.zip) **New CA BW class denotation for FR2**

*Type: discussion For: Approval  
 Source: ZTE Corporation*

**Abstract:**

In this paper, we’d like to share our views on the introduction of new CA BW classes for FBG3 in FR2 and discuss how to denote the new CA BW classes.

**Decision:** The document was **not treated**.

[**R4-2112730**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112730.zip) **CR to TS 38.101-2 on extension to CA BW class for FBG3**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0415 rev Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This CR is to add new CA BW classes in FBG3.

**Decision:** The document was **not treated**.

[**R4-2112786**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112786.zip) **Release independence spect of new FR2 CA BW class.**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112787**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112787.zip) **draftCR Release independence aspects of new FR2 CA BW classes R15 CATB**

*Type: draftCR For: Endorsement  
 38.307 v15.8.0 CR- rev Cat: B (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112788**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112788.zip) **draftCR Release independence aspects of new FR2 CA BW classes R16 CATA**

*Type: draftCR For: Endorsement  
 38.307 v16.7.0 CR- rev Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112789**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112789.zip) **draftCR Release independence aspects of new FR2 CA BW classes R17 CATA**

*Type: draftCR For: Endorsement  
 38.307 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2113099**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113099.zip) **Discussion on FR2 new CA BW class denotation and definition**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113100**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113100.zip) **CR for TS 38.101-2 to introduction of FR2 new CA BW classes**

*Type: CR For: Agreement  
 38.101-2 v17.2.0 CR-0417 rev Cat: B (Rel-17)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

##### 9.4.5.2 UE Rx requirements

#### 9.4.6 RRM core requirements

##### 9.4.6.1 Inter-band DL CA requirements for CBM

###### 9.4.6.1.1 MRTD requirements

###### 9.4.6.1.2 Other RRM requirements

##### 9.4.6.2 Inter-band UL CA for IBM

##### 9.4.6.3 UL gaps for self-calibration and monitoring

**Refer to email discussion summary of [100-e][130] NR\_RF\_FR2\_req\_enh2\_Part\_2, AI 9.4.3, 9.4.6.3 – Yang Tang**

[**R4-2112089**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112089.zip) **UL gaps for Tx power management RRM aspect**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112705**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112705.zip) **UL gaps for self-calibration and monitoring**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

[**R4-2114016**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114016.zip) **Network impact of UE FR2 UL Gap for UE Tx power enhancements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

### 9.5 NR repeater

#### 9.5.1 General

##### 9.5.1.1 System parameters

##### 9.5.1.2 Repeater Class/Type

##### 9.5.1.3 TDD repeater switching requirements

##### 9.5.1.4 Others

#### 9.5.2 Conductive RF core requirements

##### 9.5.2.1 Transmitted power related requirements

##### 9.5.2.2 Emission requirements

##### 9.5.2.3 Others

#### 9.5.3 Radiated RF core requirements

##### 9.5.3.1 Transmitted power related requirements

##### 9.5.3.2 Emission requirements

##### 9.5.3.3 Others

#### 9.5.4 EMC core requirements

### 9.6 Introduction of DL 1024QAM for NR FR1

#### 9.6.1 General

#### 9.6.2 BS TX RF requirements

##### 9.6.2.1 Deployment and link level simulation

##### 9.6.2.2 EVM requirements

##### 9.6.2.3 Others

#### 9.6.3 UE RX RF requirements

### 9.7 UE RF requirements for Transparent Tx Diversity (TxD) for NR

**Email discussion summary of [100-e][131] NR\_TxD, AI 9.7 – Ville Vintola**

[**R4-2114731**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114731.zip) **Email discussion summary for [100-e]****[131] NR\_TxD**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**GTW in 1st round:**

**Sub-topic 2-1 MPR**

**Issue 2-1: Which MPRs to be changed**

* Proposals for changes for MPR
  + Option 1: Edge MPR
  + Option 2: Inner
  + Option 3: Outer
  + Option 4: Higher MCS (EVM driven)
* Tentative agreements: Some non-zero MPR seems acceptable
* Recommendations for 2nd round:
  + Detailed proposal to be put together.

**Discussions:**

LGE: generally we are fine with Skyworks evaluation results. The higher order modulation needs further input. Inner cases, 1.5 is assumption for CP-OFDM. For DFT-s-OFDM, 1dB would be OK. We can further decide values based on skyworks results.

Huawei: for higher modulation order, is it possible for Skyworks to provide further evaluation? In the last meeting, we still have a range. What is the possible values we can take in the draft CR?

Ericsson: Regarding PC2 with 2Tx, -3dB tolerance for it is relative large.

Skyworks: PA is calibrated to ACLR level. We can have different MPR table or provide delta. We could account for wider toleration for PC2 definition. To Huawei, for 64QAM and 256QAM, we can also look into what happen to PC1.5. What kind of delta MPR will be counted for.

**Agreement:** Provide MPR tables in this meeting for further review.

* Skyworks will provide the draft way forward.

**Sub-topic 2-2 A-MPR**

**Issue 2-2: UL MIMO A-MPR for UE’s with Tx diversity**

* Proposals
  + Option 1: Study band specific A-MPR requirements in the TxD WI
  + Option 2: Study band specific A-MPR requirements in the UL MIMO bands WI
* Tentative agreements: UL MIMO AMPR needs to be studied for TxD UE. Ran4 can study first in this Wi and then what is not finished, in UL MIMO bands WI.
* Candidate options:
  + 1) List of high priority bands to be put to in to TxD WID
  + 2) All bands are gathered in the UL MIMO WID
* Recommendations for 2nd round: Option 2 seems more favorable.

**Discussions:**

Skyworks: How can we treat the complexity? We need first decide which configuration will be supported. For MPR, it is matter of delta value compared to 1Tx. And we can apply the same delta to A-MPR.

Huawei: Check the views. For MPR, it would be the same for PC3. If we can agree on it first, then we can look into the band which supports PC2.

**Agreement:**

* For PC3, there is no additional work for A-MPR
* For PC2,
* UL MIMO AMPR needs to be studied for TxD UE.
* Ran4 can study first in this WI and then what is not finished, in UL MIMO bands WI.

**Sub-topic 2-3 UL MIMO MPR and A-MPR**

**Issue 2-3-1: TxD MPR is applicable for UL MIMO**

* Proposals
  + Option 1: When UE declares txd (R4-2114545, R4-2114553, R4-2113177)
  + Option 2: For all UL MIMO implementations (R4-2114510)
  + Option 3: Other?
* Recommendations
  + Issue 2-3-1: It seems there are few comments saying issue is not understood. Intention is to agree if TxD MPR applies for all UL MIMO implementations, including the rel-15 one which has 26 dBm PA, or only for UL MIMO for UE that implements/declares TxD.
  + Recommendations for 2nd round: Re word the issue if no consensus.

**Discussions:**

Skyworks: it applies when UE declares txd and also for UE which declares for full power. We need make clear to which MRP table signalling this will be applied.

Huawei: Based on the discussion now, I saw the capability for ul-mimo should be decoupled from txd. It could be possible for UE to supporting uplink mimo but not to support txd. For Rel-15, UE may still use two 23dBm chains. It does not need to have such close relation.

Ericsson: we have discussed the dependence between mimo and txd. If MPR for full power feature is modified due to txd, there will be clear dependency. We propose to signal features independently. We need clarification.

VIVO: We have some basic agreement before. We should have MPR for 2Tx no matter whether it is txd or supports ul MIMO. For ul mimo, we can reuse MPR for Txd with two Tx.

Samsung: we would like to go back for history. During rel-16 discussion, the emission should be tested per UE rather per connector according to regulation. The same MPR table is followed by ul mimo. If we change per connector to per UE emission, there is big impact. Do we need re-consider the change from per-UE to per-connector?

OPPO: We echo comment from VIVO. We have already had agreement to apply MPR to UL-MIMO. For option 1, it is quite confusion.

Skyworks: we need treat UL-MIMO and TxD emission together. How do we look into the case where UE uses two PA to support single port for 26dBm?

Huawei: to Ericsson, currently in the spec, we only have MPR requirement for PC3 for MIMO. The agreement in RAN4 is that we consider regulation and define requriements for txd and ul-mimo together.

T-Mobile: MPR is the same PA configuration. If you have two 23dBm PA for txd, and 26dBm PA for MIMO, the MPR is different. We do not want to relax the requirement.

Qualcomm: Agree with T-Mobile and Skyworks. It depends on PA configuration.

Moderator: if we relax the requirement in the way T-mobile mentioned, it is unjustified. To Huawei, there is no reference to PC2 is some kind of mistake.

**Issue 2-3-2: MPR applicability for 2-layer UL MIMO and ULFPTx**

* Proposals
  + Option 1: Same MPR applies for 2-layer and ULFPTx
  + Option 2: Different MPR can apply between 2-layer and ULFPTx
* Tentative agreements: 1 and 2-layer UL MIMO share the MPR.

**Agreement:** MPR applicability for 2-layer UL MIMO and ULFPTx

* 1 and 2-layer UL MIMO share the MPR

**Conclusions after 1st round:**

**R4-2114753 Way forward on MPR table for TxD**

*Type: other For: Approval  
 Source: Skyworks*

**Abstract:**

This contribution provides the way forward for MPR table for TxD.

**Discussion:**

**Decision: Return to.**

**Conclusions after 2nd round:**

#### 9.7.1 General

[**R4-2112320**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112320.zip) **Discussion on the differences between NR transparent TxD and ULFPTx mode 1**

*Type: discussion For: Approval  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

[**R4-2113009**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113009.zip) **TP for TR 38.837 on Annex part for Transparent Tx Diversity**

*Type: pCR For: Approval  
 38.837 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: vivo, Qualcomm, Huawei*

**Decision:** The document was **not treated**.

[**R4-2113010**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113010.zip) **TP for TR 38.837 on Requirements part for Transparent Tx Diversity**

*Type: pCR For: Approval  
 38.837 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: vivo, Qualcomm, Huawei*

**Decision:** The document was **not treated**.

[**R4-2114358**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114358.zip) **TR 38.837 skeleton for Transparent Tx Diversity**

*Type: draft TR For: Approval  
 38.837 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: vivo, Qualcomm, Huawei*

**Decision:** The document was **not treated**.

[**R4-2114510**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114510.zip) **On remaining TxD requirements**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114511**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114511.zip) **CR for TS 38.101-1 Tx diversity requirements**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon, vivo, OPPO, CMCC, Qualcomm*

**Decision:** The document was **not treated**.

[**R4-2114552**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114552.zip) **TxD work plan**

*Type: Work Plan For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

[**R4-2114554**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114554.zip) **TxD WID revision**

*Type: WID revised For: Endorsement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 9.7.2 UE RF requirements for phase 1 (38.101-1)

[**R4-2114003**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114003.zip) **Discussion on requirements for Tx Diversity**

*Type: discussion For: (not specified)  
 Source: Orange Spain*

**Decision:** The document was **not treated**.

##### 9.7.2.1 UE requirements (other than MPR)

##### 9.7.2.2 MPR requirements

[**R4-2114545**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114545.zip) **PC2 TxD MPR evaluation and SD-CDD waveform choice**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we present PC2 measurements based on 2 PC3 PAs that are compared with 1TX PC3 and PC2 measurements and also discuss waveform choice for SD-CDD.

**Decision:** The document was **not treated**.

#### 9.7.3 UE RF requirements for phase 2 (38.101-1)

##### 9.7.3.1 SRS antenna switching related

[**R4-2112827**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112827.zip) **SRS antenna switching with antenna virtualization**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss SRS swiching with virtualization (TxD) and make proposals on the configured power for SRS with switching

**Decision:** The document was **not treated**.

[**R4-2113178**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113178.zip) **Discussion on Transparent TxD – SRS antenna switching related**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2113306**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113306.zip) **Discussion on Tx diversity SRS antenna switching**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113892**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113892.zip) **R17 SRS IL for TxD**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2113893**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113893.zip) **Draft Rel-15 CR for introduction of TxD SRS IL**

*Type: draftCR For: Endorsement  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114590**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114590.zip) **On Transmit Power Relaxations for SRS Switching**

*Type: discussion For: Discussion  
 Source: Lenovo, Motorola Mobility*

**Decision:** The document was **not treated**.

##### 9.7.3.2 ULFPTx related

[**R4-2111904**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111904.zip) **On enabling ULFPTx UEs to employ transparent TxD**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

peak gain, spherical coverage of gain discussed

**Decision:** The document was **not treated**.

[**R4-2112828**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112828.zip) **ULFPTx and the TxD capability**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss the relation between TxD and FP modes and discuss the requirements for FP single-antenna fallback

**Decision:** The document was **not treated**.

[**R4-2113177**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113177.zip) **Discussion on Transparent TxD – Uplink Full Power Tx (ULFPTx) related**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2113894**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113894.zip) **R17 TxD and ULFPTx**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 9.7.4 Power class ambiguity issues

[**R4-2112318**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112318.zip) **On the remaining power ambiguity issue**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

[**R4-2112829**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112829.zip) **Correction of Pcmax for an NR PC2 UE supporting NR PC3 for EN-DC**

*Type: draftCR For: Endorsement  
 38.101-3 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Draft CR to resolve part of the NR power-class ambiguity when a UE is configured for EN-DC (Rel-15 only)

**Decision:** The document was **not treated**.

[**R4-2113011**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113011.zip) **Remaining issues in Power class related requirements and Reply LS to GCF**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113012**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113012.zip) **Clarification of 1-port fall back SA power class for Rel-15**

*Type: draftCR For: Approval  
 38.101-1 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113013**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113013.zip) **Correction of general description of EN-DC related power class based on the TxD capability**

*Type: draftCR For: Approval  
 38.101-3 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113891**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113891.zip) **R17 Discussion on UL MIMO fallback to TxD**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114512**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114512.zip) **Discussion and draft reply LS on EN-DC power class**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114513**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114513.zip) **draft CR for TS 38.101-3 correction of power class for EN-DC**

*Type: draftCR For: Endorsement  
 38.101-3 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.7.5 Capability related

[**R4-2112319**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112319.zip) **Draft reply LS to RAN2 on the capability of transparent TxD**

*Type: LS out For: Approval  
 to RAN2  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

[**R4-2113014**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113014.zip) **Discussion and Reply LS on the capability related to transparent TxD**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2114514**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114514.zip) **draft CR for TS 38.307: release independent requirements for TxD**

*Type: draftCR For: Endorsement  
 38.307 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114553**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114553.zip) **Legacy UE type handling with TX Diversity**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

### 9.8 Enhancement for NR high speed train scenario in FR1

#### 9.8.1 General

#### 9.8.2 RRM core requirements

##### 9.8.2.1 UE RRM core requirements for CA scenario

###### 9.8.2.1.1 Intra-frequency measurements

###### 9.8.2.1.2 Inter-frequency measurements

###### 9.8.2.1.3 Other

#### 9.8.3 UE demodulation requirements (38.101-4)

##### 9.8.3.1 General

##### 9.8.3.2 PDSCH requirements for CA scenarios

### 9.9 NR support for high speed train scenario in FR2

#### 9.9.1 General

**Email discussion summary of [100-e][132] NR\_HST\_FR2\_enh, AI 9.9.1, 9.9.3 – He Wang**

[**R4-2114732**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114732.zip) **Email discussion summary for [100-e][132] NR\_HST\_FR2\_enh**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**GTW in 2nd round**

**Conclusions after 2nd round**

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[**R4-2113792**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113792.zip) **Discussion on general issues for NR FR2 HST deployment scenario**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114024**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114024.zip) **TR for FR2 HST**

*Type: draft TR For: Endorsement  
 38.854 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

#### 9.9.2 High speed train deployment scenario in FR2

##### 9.9.2.1 Deployment Scenario-A

##### 9.9.2.2 Deployment Scenario-B

##### 9.9.2.3 Channel modeling

##### 9.9.2.4 Others

#### 9.9.3 UE RF core requirements

[**R4-2112262**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112262.zip) **On FR2 HST RF Requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

##### 9.9.3.1 Baseline power class and UE Tx requirements

[**R4-2113173**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113173.zip) **On UE TX RF requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2113655**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113655.zip) **On UE beam and pwr requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on UE PC for HST FR2

**Decision:** The document was **not treated**.

[**R4-2114058**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114058.zip) **EIRP requirement for FR2 HST**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.9.3.2 Beam correspondence

[**R4-2113175**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113175.zip) **Further discussion on beam correspondence for FR2 HST UE**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2113656**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113656.zip) **On Beam Correspondence requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on UE Beam correspondence for HST FR2

**Decision:** The document was **not treated**.

[**R4-2114059**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114059.zip) **UE beam correspondence for FR2 HST**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.9.3.3 UE Rx requirements

[**R4-2113174**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113174.zip) **On UE RX RF requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

##### 9.9.3.4 Others

#### 9.9.4 RRM core requirements

##### 9.9.4.1 General

##### 9.9.4.2 Number of RX beams

##### 9.9.4.3 RRC Idle/Inactive and connected state mobility requirements

##### 9.9.4.4 Timing requirements

##### 9.9.4.5 Signalling characteristics requirements

##### 9.9.4.6 Measurement procedure requirements

#### 9.9.5 Demodulation requirements

##### 9.9.5.1 General

##### 9.9.5.2 UE demodulation requirements

##### 9.9.5.3 BS demodulation requirements

###### 9.9.5.3.1 PUSCH requirements

###### 9.9.5.3.2 PUSCH with UL timing adjustment requirements

###### 9.9.5.3.3 PRACH requirements

### 9.10 Further RRM enhancement for NR and MR-DC

#### 9.10.1 General

#### 9.10.2 RRM core requirements

##### 9.10.2.1 SRS antenna port switching

##### 9.10.2.2 HO with PSCell

##### 9.10.2.3 PUCCH SCell activation/deactivation

### 9.11 NR and MR-DC measurement gap enhancements

#### 9.11.1 General

#### 9.11.2 RRM core requirements

##### 9.11.2.1 Pre-configured MG pattern(s)

##### 9.11.2.2 Multiple concurrent and independent MG patterns

##### 9.11.2.3 Network Controlled Small Gap

### 9.12 Further enhancement on NR demodulation performance

#### 9.12.1 General

#### 9.12.2 UE demodulation and CSI requirements

##### 9.12.2.1 MMSE-IRC receiver for inter-cell interference

###### 9.12.2.1.1 PDSCH requirements

###### 9.12.2.1.2 CSI requirements

##### 9.12.2.2 MMSE-IRC receiver for intra-cell inter-user interference

##### 9.12.2.3 Evaluation on CRS interference in scenarios with overlapping spectrum for LTE and NR

#### 9.12.3 BS demodulation requirements

##### 9.12.3.1 PUSCH demodulation requirements for FR1 256QAM

### 9.13 Solutions for NR to support non-terrestrial networks (NTN)

#### 9.13.1 General and work plan

##### 9.13.1.1 System parameters

##### 9.13.1.2 NTN gNB Class/Type

##### 9.13.1.3 Regulatory information

##### 9.13.1.4 Others

#### 9.13.2 Coexistence aspects

##### 9.13.2.1 Coexistence scenarios and Simulation assumptions

##### 9.13.2.2 Simulation results

#### 9.13.3 BS RF requirements

##### 9.13.3.1 TX requirements

##### 9.13.3.2 RX requirements

#### 9.13.4 UE RF requirements

##### 9.13.4.1 TX requirements

##### 9.13.4.2 RX requirements

#### 9.13.5 RRM core requirements

##### 9.13.5.1 General and RRM requirements impacts

##### 9.13.5.2 GNSS-related requirements

##### 9.13.5.3 Mobility requirements

##### 9.13.5.4 Timing requirements

##### 9.13.5.5 Measurement procedure requirements

### 9.14 UE Power Saving Enhancements

#### 9.14.1 General

#### 9.14.2 UE measurements relaxation for RLM and/or BFD

### 9.15 NR Sidelink enhancement

#### 9.15.1 General

**Email discussion summary of [100-e][134] NRSL\_enh\_Part\_1, AI 9.15.1, 9.15.2, 9.15.3, 9.15.4, 9.15.7, 6.1.3.1 – Suhwan Lim**

[**R4-2114734**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114734.zip) **Email discussion summary for [100-e][134] NRSL\_enh\_Part\_1**

*Type: other For: Information  
 Source: Moderator (LGE)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**GTW in 2nd round:**

**Conclusions after 2nd round:**

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[**R4-2111942**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111942.zip) **On coexistence evaluation necessity in band n14**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112767**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112767.zip) **TR38.785 v0.3.0 TR Update for SL enhancement in Rel-17**

*Type: draft TR For: Agreement  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

draft TR v0.3.0 to capture the approved TPs and WF.

**Decision:** The document was **not treated**.

[**R4-2112840**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112840.zip) **Consideration on NR PS and LTE PS different point for n14 SL enhancement coexistence study perspective**

*Type: discussion For: Approval  
 Source: LG Electronics France*

**Abstract:**

provide our views on the remaining issues for coexistence study between n14 PS operation and NR/LTE legacy system for NE sidelink enhancement operation in n14

**Decision:** The document was **not treated**.

#### 9.15.2 Spectrum request for SL operation

[**R4-2112990**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112990.zip) **Discussion on coexistence evaluation necessity in n14**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

#### 9.15.3 System parameters (numerologies, rasters, CBW, etc)

[**R4-2111940**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111940.zip) **TP on sync raster for SL licensed bands**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

#### 9.15.4 UE RF requirements for NR SL enhancement

##### 9.15.4.1 TX requirements

[**R4-2114337**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114337.zip) **CR on NR V2X Pcmax**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR on NR V2X Pcmax

**Decision:** The document was **not treated**.

##### 9.15.4.2 RX requirements

[**R4-2111941**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111941.zip) **TP on REFSENS for SL enhancement**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112842**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112842.zip) **TP on updating REFSENS requirements for NR SL enhancement**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

To specify the REFSENS requirements in n14 for SL enh operation, RAN4 can reuse the NR Uu REFSENS requirements.

**Decision:** The document was **not treated**.

#### 9.15.5 Partially used SL operation with NR Uu operating bands

**Email discussion summary of [100-e][135] NRSL\_enh\_Part\_2, AI 9.15.5 – Yuan Gao**

[**R4-2114735**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114735.zip) **Email discussion summary for [100-e][135] NRSL\_enh\_Part\_2**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

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[**R4-2112769**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112769.zip) **RF requirements for intra-band con-current V2X operation with NR PC5 and NR Uu in a licensed band**

*Type: discussion For: Approval  
 Source: LG Electronics France*

**Abstract:**

Propose RF requirements for intra-band V2X con-current operation

**Decision:** The document was **not treated**.

[**R4-2112771**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112771.zip) **TP on RF requirements for intra-band con-current V2X operation in licensed band**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

Provide TP to capture UE Tx/Rx RF requirements for intra-band con-current V2X UE in licensed band

**Decision:** The document was **not treated**.

[**R4-2112991**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112991.zip) **Discussion on issues for intra-band con-current operation**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

##### 9.15.5.1 FDM operation

[**R4-2111944**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111944.zip) **On V2X intra-band con-current operation**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112604**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112604.zip) **Further discussion on FDM intra-band concurrent operation**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision: Revised to** [**R4-2114698**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114698.zip) **(from** [**R4-2112604**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112604.zip)**).**

[**R4-2114698**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114698.zip) **Further discussion on FDM intra-band concurrent operation**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision: Return to.**

[**R4-2114338**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114338.zip) **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 above issues.

**Decision:** The document was **not treated**.

##### 9.15.5.2 TDM operation

[**R4-2111943**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111943.zip) **TP on intra-band V2X operation**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112605**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112605.zip) **Further discussion on TDM intra-band concurrent operation**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision: Revised to** [**R4-2114699**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114699.zip) **(from** [**R4-2112605**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112605.zip)**).**

[**R4-2114699**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114699.zip) **Further discussion on TDM intra-band concurrent operation**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision: Return to.**

[**R4-2114506**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114506.zip) **On TDM operation for NR SL**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.15.5.3 Synchronous operation between NR Uu and NR SL in a TDD band

[**R4-2114251**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114251.zip) **Con-current reception of SL and Uu transmission in licensed band**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Presents view on whether to support con-current reception of SL and Uu transmission in licensed band

**Decision:** The document was **not treated**.

[**R4-2114505**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114505.zip) **Further consideration on SL timing alignment**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.15.5.4 Others

[**R4-2111945**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111945.zip) **On time mask for Uu and SL switching**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112284**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112284.zip) **MPR specifications for intra-band con-current V2X operation**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Outlines MPR development for V2X intra-band con-current operation

**Decision:** The document was **withdrawn**.

[**R4-2112341**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112341.zip) **TP on MPR for NR V2X intra-band con-current operation with Uu**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics*

**Abstract:**

It provides TP on MPR for NR V2X intra-band con-current operation with Uu based on agreed WF([R4-2107870](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2107870.zip)).

**Decision:** The document was **not treated**.

[**R4-2113410**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113410.zip) **Discussion on MPR requirements for intra-band con-current V2X operation**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114589**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114589.zip) **MPR specifications for V2X intra-band con-current operation**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Outlines MPR development for V2X intra-band con-current operation

**Decision:** The document was **not treated**.

#### 9.15.6 High power UE(PC2) for SL

**Email discussion summary of [100-e][136] NRSL\_enh\_Part\_3, AI 9.15.6 – Ye Liu**

[**R4-2114736**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114736.zip) **Email discussion summary for [100-e][136] NRSL\_enh\_Part\_3**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**GTW in 2nd round:**

**Conclusions after 2nd round:**

##### 9.15.6.1 TX requirements

[**R4-2111946**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111946.zip) **On HPUE for NR SL enhancement**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112602**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112602.zip) **draft CR for TS 38.101-3 PEMAX for intra-band concurrent operation**

*Type: draftCR For: Endorsement  
 38.101-3 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2112603**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112603.zip) **draft CR for TS 38.101-3 PEMAX for intra-band concurrent operation**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

**Decision: Revised to** [**R4-2114697**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114697.zip) **(from** [**R4-2112603**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112603.zip)**).**

[**R4-2114697**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114697.zip) **draft CR for TS 38.101-3 PEMAX for intra-band concurrent operation**

*Type: draftCR For: Endorsement  
 38.101-3 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Xiaomi*

**Decision: Return to.**

[**R4-2112611**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112611.zip) **on PEMAX issue**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2112678**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112678.zip) **TP for TR 38.785 on MPR and AMPR for NR V2X PC2**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

[**R4-2112992**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112992.zip) **Discussion on HPUE issues for SL enhancements**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2114507**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114507.zip) **On specific HPUE power class capability for NR V2X**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114508**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114508.zip) **draft LS on new power class 2 capability for NR-V2X**

*Type: LS out For: Approval  
 to RAN2  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.15.6.2 Coexistence study

[**R4-2113409**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113409.zip) **TP to 38.785 to capture NR V2X PC2 coexistence results**

*Type: pCR For: Approval  
 38.785 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114335**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114335.zip) **coexisting simulation assumption for public safety UC and protection of B13**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on coexisting simulation in n14 and protection of B13.

**Decision:** The document was **not treated**.

[**R4-2114509**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114509.zip) **Further consideration on co-existence study for n38 (SL) and adjacent band n7 (Uu)**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.15.6.3 Others

[**R4-2112608**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112608.zip) **on HPUE signalling issue**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2112612**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112612.zip) **draft LS out\_PC2 V2X intra-band concurrent**

*Type: LS out For: (not specified)  
 to RAN2  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2114336**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114336.zip) **Co-channel co-existence between SL and Uu**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our views on above issues

**Decision:** The document was **not treated**.

#### 9.15.7 Other RF/general requirements for New SL enhancement

#### 9.15.8 RRM core requirements

### 9.16 Extending current NR operation to 71GHz

#### 9.16.1 General

**Email discussion summary of [100-e][137] NR\_ext\_to\_71GHz\_Part\_1, AI 9.16.1, 9.16.2, 9.16.3, 9.16.8 –Jiwoo Kim**

[**R4-2114737**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114737.zip) **Email discussion summary for [100-e][137] NR\_ext\_to\_71GHz\_Part\_1**

*Type: other For: Information  
 Source: Moderator (Intel)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**GTW in 2nd round:**

**Conclusions after 2nd round:**

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[**R4-2112993**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112993.zip) **Discussion on the intermediate and maximum channel bandwidths for B52.6G**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113652**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113652.zip) **DRAFT CR to TS 38.101-1 Introducing extension of FR2 to cover up to 71GHz**

*Type: draftCR For: Endorsement  
 38.101-1 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Adding new FR2 definition into specification

**Decision:** The document was **not treated**.

[**R4-2113653**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113653.zip) **DRAFT CR to TS 38.101-2 Introducing extension of FR2 to cover up to 71GHz**

*Type: draftCR For: Endorsement  
 38.101-2 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Adding new FR2 definition into specification

**Decision:** The document was **not treated**.

[**R4-2113654**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113654.zip) **DRAFT CR to TS 38.104 Introducing extension of FR2 to cover up to 71GHz**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Adding new FR2 definition into specification

**Decision:** The document was **not treated**.

[**R4-2113954**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113954.zip) **On 52.6 to 71 GHz maximum channel bandwidth for 960 kHz, draft LS to RAN1**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson*

**Abstract:**

draft LS to RAN1 on maximum channel bandwidth for 960 kHz SCS

**Decision:** The document was **not treated**.

[**R4-2114411**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114411.zip) **On implementation of FR2 frequency sub-ranges (FR2-1 and FR2-2) in core specifications**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

In this contribution, we provide furhter updated and analyses related to the implementation of the FR2 extension with the two sub-ranges FR2-1 and FR2-2.

**Decision:** The document was **not treated**.

[**R4-2114478**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114478.zip) **60GHz UE transient times and switching times**

*Type: discussion For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Discussion of UE switching times and transiet period

**Decision:** The document was **not treated**.

#### 9.16.2 Band plans and regulatory requirements

[**R4-2111722**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111722.zip) **Introducing Upper 700 MHz Block A as a new stand-alone band for NB-IoT for Industrial IoT applications**

*Type: discussion For: Discussion  
 Source: Puloli*

**Abstract:**

Discussion of introducing Upper 700 MHz Block A as a new stand-alone band for NB-IoT. Specifically, the uplink band for this new band is 1 MHz, 787-788 MHz; the downlink band is 1 MHz, 757-768 MHz; the duplex spacing is 30 MHz.

**Decision:** The document was **revised to** [**R4-2112740**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112740.zip).

[**R4-2113686**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113686.zip) **Bandplan for a NR band in the range 52.6GHz – 71GHz**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 9.16.3 System parameters (numerologies, rasters, CBW, etc)

[**R4-2111913**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111913.zip) **Discussion on the system parameters for 57-71 GHz**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2112134**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112134.zip) **System parameters for NR operation in 52.6GHz - 71GHz**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112186**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112186.zip) **On system parameters for NR in 52.6GHz ~ 71GHz**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112606**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112606.zip) **on channelization for licensed and un-licensed band**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2112865**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112865.zip) **View on system parameter for extending NR to 71GHz**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2112994**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112994.zip) **Discussion on system parameters for B52.6GHz**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113159**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113159.zip) **On 60 GHz system parameters**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

[**R4-2113528**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113528.zip) **120kHz and 480kHz SSB raster for 52.6-71GHz band**

*Type: discussion For: Approval  
 Source: LG Electronics Finland*

**Abstract:**

SSB raster for 52.6-71GHz frequency range is discussed and a proposal for defining SS raster entries for 120kHz and 480kHz SSB is made.

**Decision:** The document was **not treated**.

[**R4-2113550**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113550.zip) **Channelization open issues for 52.6-71GHz**

*Type: discussion For: Decision  
 Source: MediaTek (Chengdu) Inc.*

**Decision:** The document was **not treated**.

[**R4-2113680**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113680.zip) **System parameters for a NR band in the range 52.6GHz – 71GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2113921**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113921.zip) **Discussion on system parameters for 52.6-71GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113953**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113953.zip) **52.6-71 GHz System Parameters**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

The focus of this contribution is to provide analysis on impacts of the agree bandwidths on, channel raster and spectrum utilization selections.

**Decision:** The document was **not treated**.

[**R4-2114479**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114479.zip) **60GHz Carrier aggregation**

*Type: discussion For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Discuss CCBWs for CA

**Decision:** The document was **not treated**.

#### 9.16.4 UE RF requirements

**Email discussion summary of [100-e][138] NR\_ext\_to\_71GHz\_Part\_2, AI 9.16.4 – Phil Coan**

[**R4-2114738**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114738.zip) **Email discussion summary for [100-e][138] NR\_ext\_to\_71GHz\_Part\_2**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**GTW in 2nd round:**

**Conclusions after 2nd round:**

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[**R4-2112370**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112370.zip) **Views on minimum peak EIRP and EIS requirements for 60 GHz**

*Type: discussion For: Approval  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112996**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112996.zip) **Discussion on beam switch scenarios and requirements**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

##### 9.16.4.1 TX requirements

[**R4-2112033**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112033.zip) **Views on UE antenna array size and link budget at 70 GHz**

*Type: discussion For: Discussion  
 Source: Murata Manufacturing Co Ltd.*

**Decision:** The document was **not treated**.

[**R4-2112384**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112384.zip) **FR2 UL field data for NR 60GHz TPC consideration**

*Type: other For: Approval  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112830**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112830.zip) **More 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:** The document was **not treated**.

[**R4-2112887**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112887.zip) **Views on UE Array and EIRP level at 60 GHz**

*Type: other For: Discussion  
 Source: Sony*

**Decision:** The document was **not treated**.

[**R4-2112995**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112995.zip) **Discussion on power class requirements for B52.6GHz**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113160**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113160.zip) **On 60 GHz UE Tx requirements**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

[**R4-2113547**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113547.zip) **Discussion on Tx power class and UE types**

*Type: discussion For: Discussion  
 Source: LG Electronics Finland*

**Abstract:**

Document discusses on UE power class and UE types for FR2-2

**Decision:** The document was **not treated**.

[**R4-2113687**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113687.zip) **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:** The document was **not treated**.

[**R4-2114480**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114480.zip) **60GHz UE TX**

*Type: discussion For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Discuss various UE TX requirements

**Decision:** The document was **not treated**.

##### 9.16.4.2 RX requirements

[**R4-2113688**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113688.zip) **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:** The document was **not treated**.

#### 9.16.5 BS RF requirements

##### 9.16.5.1 TX requirements

##### 9.16.5.2 RX requirements

#### 9.16.6 Co-existence simulations

**Email discussion summary of [100-e][139] NR\_ext\_to\_71GHz\_Part\_3, AI 9.16.6 – Huiping Shan**

[**R4-2114739**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114739.zip) **Email discussion summary for [100-e][139] NR\_ext\_to\_71GHz\_Part\_3**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

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[**R4-2111914**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111914.zip) **Some co-existence simulation results for 57-71 GHz**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision: Revised to** [**R4-2114693**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114693.zip) **(from** [**R4-2111914**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111914.zip)**).**

[**R4-2114693**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114693.zip) **Some co-existence simulation results for 57-71 GHz**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision: Return to.**

[**R4-2112020**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112020.zip) **Simulation results for NR DL coexistence study: indoor deployment at 60GHz**

*Type: discussion For: Discussion  
 Source: Korea Testing Laboratory*

**Decision: Revised to** [**R4-2114694**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114694.zip) **(from** [**R4-2112020**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112020.zip)**).**

[**R4-2114694**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114694.zip) **Simulation results for NR DL coexistence study: indoor deployment at 60GHz**

*Type: discussion For: Discussion  
 Source: Korea Testing Laboratory*

**Decision: Return to.**

[**R4-2112146**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112146.zip) **NR coexistence simulation results for 52.6-71 GHz**

*Type: other For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **not treated**.

[**R4-2112277**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112277.zip) **Proposals on coexistence simulation for extending current NR operation to 71 GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides some preliminary simulation results based on the proposed assumptions and parameters in the approved WF and provides some proposals on coexistence simulation for extending current NR operation to 71.

**Decision:** The document was **not treated**.

[**R4-2112997**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112997.zip) **Initial simulation results for coexistence studies**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113924**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113924.zip) **Initial coexistence simulation results for 52.6-71GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 9.16.7 RRM core requirements

##### 9.16.7.1 General and RRM requirements impacts

##### 9.16.7.2 Timing requirements

##### 9.16.7.3 Interruption requirements

##### 9.16.7.4 Active BWP switching delay requirements

##### 9.16.7.5 Measurement gap interruption requirements

#### 9.16.8 Others

**Refer to email discussion summary of [100-e][137] NR\_ext\_to\_71GHz\_Part\_1, AI 9.16.1, 9.16.2, 9.16.3, 9.16.8 –Jiwoo Kim**

[**R4-2114413**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114413.zip) **Release independence aspects for the FR2 extension up to 71 GHz**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

This contribution provides clarification on the applicabiltiy of the NR operating bands or features specific to the NR operation in FR2-2 range sub-range, as only applowed to be release-independent from Rel-17 onwards.

**Decision:** The document was **not treated**.

### 9.17 Enhancements to Integrated Access and Backhaul (IAB) for NR

#### 9.17.1 General

#### 9.17.2 RF requirements

##### 9.17.2.1 Impact for Simultaneous operation of IAB child and parent links

##### 9.17.2.2 Impact for Timing enhancement

##### 9.17.2.3 Others

#### 9.17.3 RRM core requirements

#### 9.17.4 Others

### 9.18 NR coverage enhancements

#### 9.18.1 General

**Email discussion summary of [100-e][140] NR\_cov\_enh, AI 9.18 – Shan Yang**

[**R4-2114740**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114740.zip) **Email discussion summary for [100-e][140] NR\_cov\_enh**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**GTW in 2nd round**

**Conclusions after 2nd round**

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[**R4-2112230**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112230.zip) **RAN4 RF work plan for NR coverage enhancements WI**

*Type: Work Plan For: Approval  
 Source: China Telecom*

**Decision:** The document was **not treated**.

[**R4-2114331**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114331.zip) **On definition of phase continuity**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the phase continuity definition with the defined reference point

**Decision:** The document was **not treated**.

[**R4-2114334**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114334.zip) **LS reply On maximum duration of phase continuity and power consistency for PUCCH and PUSCH repetition**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the FFS aspects of phase continuity and also our view on the LS questions.

**Decision:** The document was **not treated**.

#### 9.18.2 Phase continuity and power consistency for PUSCH and PUCCH repetition

[**R4-2111901**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111901.zip) **Discussion on phase continuity**

*Type: other For: Approval  
 Source: InterDigital Communications*

**Abstract:**

In this contribution we discuss the phase continuity issues in the context of the new questions asked by RAN1.

**Decision:** The document was **not treated**.

[**R4-2112231**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112231.zip) **On phase continuity and power consistency for PUCCH and PUSCH repetition**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

[**R4-2112804**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112804.zip) **Phase continuity and power consistency for PUSCH and PUCCH repetition**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112889**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112889.zip) **Views on phase continuity and power consistency for PUSCH and PUCCH repetition**

*Type: other For: Discussion  
 Source: Sony*

**Decision:** The document was **not treated**.

[**R4-2113504**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113504.zip) **Further analysis on PUSCH/PUCCH repetition phase continuity**

*Type: discussion For: Decision  
 Source: MediaTek (Chengdu) Inc.*

**Decision:** The document was **not treated**.

[**R4-2113925**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113925.zip) **Discussion on reply LS on NR coverage enhancement**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113926**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113926.zip) **Discussion on phase discontinuity and power inconsistency tolerance across different repetitions**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2114332**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114332.zip) **Initial simulation results for phase tolerance for PUSCH repetition**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our initial simulation results together with the CFO and TA inaccuracy investigations.

**Decision:** The document was **not treated**.

[**R4-2114496**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114496.zip) **on phase continuty for multiple transmissions**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114549**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114549.zip) **Simulation results fo the DMRS bundling**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 9.18.3 RF requirements

[**R4-2114333**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114333.zip) **RF impact on phase continuity and power consistency for PUCCH and PUSCH**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the RF requirement aspect of phase continuity.

**Decision:** The document was **not treated**.

[**R4-2114550**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114550.zip) **Requirements for phase continuity for transmission repetitions**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

### 9.19 Further enhancements on MIMO for NR

#### 9.19.1 General

**Email discussion summary of [100-e][141] NR\_feMIMO, AI 9.19.1, 9.19.2 –Taekhoon Kim**

[**R4-2114741**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114741.zip) **Email discussion summary for [100-e][141] NR\_feMIMO**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

#### 9.19.2 UE RF requirements

[**R4-2112971**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112971.zip) **RF requirements for further enhancements on MIMO**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

##### 9.19.2.1 Impact of multi-panel reception

[**R4-2111771**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111771.zip) **Multi-panel reception impact on Rx requirements**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2113016**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113016.zip) **Discussion on impact of multi-panel reception requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113035**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113035.zip) **Proposal on FR2 FeMIMO multi-panel reception requirement**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal: Additional reception requirement shall NOT be specified for multi-panel UE in Rel-17 FeMIMO WI.

**Decision:** The document was **not treated**.

##### 9.19.2.2 Impact for MPE

[**R4-2111770**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111770.zip) **MPE mitigation techniques**

*Type: other For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2113017**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113017.zip) **Discussion on impact of MPE requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

#### 9.19.3 RRM core requirements

##### 9.19.3.1 General and RRM requirements impacts

##### 9.19.3.2 Multi-beam operation enhancement

##### 9.19.3.3 Link recovery procedure for FR2 serving cells

### 9.20 Support of reduced capability NR devices

#### 9.20.1 General

**Email discussion summary of [100-e][142] NR\_RedCap, AI 9.20.1, 9.20.2 – Chunhui Zhang**

[**R4-2114742**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114742.zip) **Email discussion summary for [100-e][142] NR\_RedCap**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**GTW in 2nd round:**

**Conclusions after 2nd round:**

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[**R4-2114339**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114339.zip) **WI work plan for RedCap for RF RAN4 work**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

WI work plan is updated

**Decision:** The document was **not treated**.

#### 9.20.2 UE RF requirements

##### 9.20.2.1 Rx-Tx switching time for FR1 HD-FDD Type A device

[**R4-2111728**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111728.zip) **Type-A HD-FDD RedCap Transition Time and Power Savings**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

[**R4-2113406**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113406.zip) **Draft Reply LS on Half-duplex FDD switching time for RedCap UE**

*Type: LS out For: Approval  
 to R1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114073**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114073.zip) **Rx-Tx switching time for HD-FDD RedCap UE**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on Rx-Tx switching time for HD-FDD RedCap UE

**Decision:** The document was **not treated**.

[**R4-2114340**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114340.zip) **Reply LS on Half-duplex FDD switching for RedCap UE**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, the questions in by RAN1 is discussed and proposal of LS is followed.

**Decision:** The document was **not treated**.

##### 9.20.2.2 Tx requirements for FR1

[**R4-2112984**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112984.zip) **Views on RedCap Tx requirements**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113407**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113407.zip) **Discussion on SUL supporting for RedCap UE**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114074**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114074.zip) **RedCap UE Tx requirements for FR1**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discusses RedCap UE Tx requirements for FR1 and makes some proposals.

**Decision:** The document was **not treated**.

[**R4-2114343**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114343.zip) **CR on RedCap UE FR1-TX**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR on general and Tx part for RedCap UE is introduced

**Decision:** The document was **not treated**.

##### 9.20.2.3 Rx requirements for FR1

[**R4-2112385**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112385.zip) **RedCap UE REFSENS requirements**

*Type: other For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112890**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112890.zip) **Considerations on RF receiver for RedCap FR1**

*Type: other For: Discussion  
 Source: Sony*

**Decision:** The document was **not treated**.

[**R4-2112912**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112912.zip) **Discussion on RedCap UE requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2112985**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112985.zip) **Views on RedCap REFSENS requirements**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113101**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113101.zip) **Rx requirements for FR1 Redcap UE**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113408**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113408.zip) **Discussion on RF requirements for RedCap UE**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114075**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114075.zip) **RedCap UE Rx requirements for FR1**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discusses RedCap UE Rx requirements for FR1 and makes some proposals

**Decision:** The document was **not treated**.

[**R4-2114341**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114341.zip) **RF impact analysis on R17 RedCap**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the RF impact from these RedCap features.

**Decision:** The document was **not treated**.

##### 9.20.2.4 Input on FR2 RedCap UE

[**R4-2112891**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112891.zip) **Considerations on RF architecture for RedCap FR2**

*Type: other For: Discussion  
 Source: Sony*

**Decision:** The document was **not treated**.

[**R4-2113102**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113102.zip) **Discussion on FR2 Redcap UE**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2114076**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114076.zip) **Discussion on FR2 RedCap UE**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on aspects related to FR2 RedCap UE

**Decision:** The document was **not treated**.

[**R4-2114342**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114342.zip) **On FR2 R RedCap**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on FR2 RedCap UE.

**Decision:** The document was **not treated**.

##### 9.20.2.5 Others

[**R4-2113973**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113973.zip) **SUL for RedCap**

*Type: discussion For: Decision  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

[**R4-2114490**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114490.zip) **on BWP switching time for Redcap UE**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.20.3 RRM core requirements

##### 9.20.3.1 General and RRM requirements impacts

##### 9.20.3.2 UE complexity reduction

##### 9.20.3.3 Extended DRX enhancements

##### 9.20.3.4 RRM measurement relaxations

### 9.21 Positioning enhancements for NR

#### 9.21.1 General

#### 9.21.2 RRM core requirements

##### 9.21.2.1 General and RRM requirements impacts

##### 9.21.2.2 UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation

##### 9.21.2.3 Latency reduction of positioning measurement

##### 9.21.2.4 Measurement in RRC\_INACTIVE state

##### 9.21.2.5 Impact on existing UE positioning and RRM requirements

##### 9.21.2.6 Enhancements of A-GNSS positioning

### 9.22 Multi-Radio Dual-Connectivity enhancements

#### 9.22.1 General

#### 9.22.2 RRM core requirements

##### 9.22.2.1 General and RRM requirements impacts

##### 9.22.2.2 Efficient activation/de-activation mechanism for SCells

##### 9.22.2.3 Efficient activation/de-activation mechanism for one SCG

##### 9.22.2.4 Conditional PSCell change and addition

### 9.23 Enhanced IIoT and URLLC support

#### 9.23.1 General

#### 9.23.2 RRM core requirements

##### 9.23.2.1 General and RRM requirements impacts

##### 9.23.2.2 Propagation delay compensation enhancements

##### 9.23.2.3 Reference point for Te requirements

### 9.24 NR Sidelink Relay

#### 9.24.1 General and work plan

#### 9.24.2 RRM core requirements

## 10 Rel-17 Study Items for NR

### 10.1 Study on enhanced test methods for FR2 in NR

#### 10.1.1 General

#### 10.1.2 Test methodology for high DL power and low UL power test cases

#### 10.1.3 Polarization basis mismatch

#### 10.1.4 Test time reduction

#### 10.1.5 OTA test methods for UE RF, RRM and demodulation for 52.6~71GHz

#### 10.1.6 Others

### 10.2 Study on Efficient utilization of licensed spectrum that is not aligned with existing NR channel bandwidths

**Email discussion summary of [100-e][143] FS\_NR\_eff\_BW\_util, AI 10.2 – Esther Sienkiewicz**

[**R4-2114743**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114743.zip) **Email discussion summary for [100-e][143] FS\_NR\_eff\_BW\_util**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**GTW in 1st round:**

**Issue 3-1: Reconfiguring a wider UE dedicated BWP**

As reference for discussions below the actual carrier as described in TS 38.211 clause 4.4.5 and copied below:

* Proposals
  + Option 1: TS 38.211 Clause 4.4.5 implies the reconfiguration of a wider UE dedicated BWP to irregular BW. No RAN1/2 spec impact.
  + Option 2: TS 38.211 Clause 4.4.5 only allows for the reconfiguration of a smaller UE dedicated BWP to irregular BW. Reconfiguration to irregular BW which is larger than indicated in MIB/SIB1 during initial access has RAN1/2 spec impact.
  + Option 3: New UE capability and signalling is needed (and should be added) to support the interpretation/application of the reconfiguring of wide.
  + Option 4: Request RAN1 and RAN2 to check whether allowing BWP BW > CBW BW leads to any spec change.
  + Option 5: LS to be sent to RAN1/2 for clarification on all aspects indicated by all methods
* Recommended WF
  + TBA

**Discussion:**

Qualcomm: need of new signalling is quite obvious. Option 2 has big impact. Those options are not preclusive.

Intel: we are talking from network and for UE perspective. Not use if Ericsson is talking about from UE perspective.

Qualcomm: Overlapping channel bandwidth from UE perspective is also possible without combining them, like overlapping CA. Initially like combined channel bandwidth from network perspective.

Nokia: I have a feeling that we are discussing the same issue. We provide the evindence that there is no impact of RAN1.

ZTE: If we are talking about signalling issue, what is channel bandwidth here. Is it whole RF carrier or base band bandwidth for option 4? RF channel bandwidth is larger than channel bandwidth. Should we treat RF bandwidth and baseband bandwidth separately? We need common understanding on it.

Huawei: If we re-configure UE wide BWP, then we will have RAN1 and RAN2 impact. Not all the UE supports intraband NC CA. We need consider the case with new UE use legacy channel bandwidth.

Ericsson: We should differentiate the cases between single serving cell or two cells. UE only operates in the regular bandwidth. BS has irregular bandwidth. Regarding option 2 and Nokia proposal, that needs major changes in RAN1/2.

Intel: we are talking about all the existing UE has two RF chains. It combines somewhere. It is good to reuse the hardware. For changes, we see sub-topic 3-1. There is need of extension of BWP, which can be done as small impact. Change of SSB technology is a big thing.

ZTE: From RAN4 understanding, it is clear that UE reuse the same architecture.

**Agreement:** Send LS to RAN1 and RAN2, including the specific questions about the BWP configuration for solution of reconfiguring a wider UE dedicated BWP.

* Nokia will provide draft LS and we will come back on Thursday (August 19) GTW.

*Sub-topic description: Overlapping CA approach*

*Open issues and candidate options before e-meeting:*

**Issue 3-2: PRB grid alignment**

* Proposals
  + Option 1: Overlapping CA approach needs to have PRB grids between overlapping CCs
  + Option 2: No PRB grids alignment is needed
  + Option 3: Define the number of overlapping RBs
  + Option 4: Alignment on the 900 kHz raster is required
* Recommended WF
  + TBA

Agreement:

* Overlapping CA approach needs to have PRB grid alignment between overlapping CCs
* FFS: Alignment on the 900 kHz raster is required.
  + 900KHz raster is applied to the case with 15Khz SCS.

*Sub-topic description: Overlapping from Network perspective*

*Open issues and candidate options before e-meeting:*

**Issue 3-4: UE signalling**

* Proposals
  + Option 1: Current RAN1/2 specifications support this approach only new signalling is needed
  + Option 2: Current RAN1/2 specifications does not support this approach

*Moderator comment: Please further information for what would be required to enable the RAN1/2 specification in order to support this approach e.g. higher layer signalling is needed to indicate second BWP needed, if this Option is selected.*

* Recommended WF
  + TBA

**Discussion:**

Apple: where is Option 2 coming from.

Intel: for <10Mhz case.

Apple: staggering solution is not precluded.

Qualcomm: same understanding as Apple. It is possible to make it like two cells. There are different ways to address this and has already been supported.

**Issue 3-6: PRB grid alignment**

* Proposals
  + Option 1: Overlapping UE channel bandwidth approach needs to have PRB grids between 1st UE CBW and 2nd UE CBW
    - Option 1a: Define the number of overlapping RBs
    - Option 1b: Alignment on the 900 kHz raster is required
  + Option 2: No PRB grids alignment is needed
* Recommended WF
  + Capture agree approach in TR 38.844 Clause 6.2

**Agreement**: PRB grid alignment is needed for the solution of Overlapping from Network perspective.

**Conclusions after 1st round:**

**R4-2114751 Draft LS on specification impact for methods on efficient utilization of licensed spectrum that is not aligned with existing NR channel bandwidths**

*Type: LS out For: Approval  
 Source: Nokia*

**Abstract:**

This contribution provides LS.

**Discussion:**

GTW on August 19, 2021

Receive some comments on wider CHBW that the questions are related to RAN4 only and there is no need to ask RAN2. For overlapping CA, the comments were received that the first sub-bullet is not needed since RAN4 had agreement and the third sub-bullet is not relevant since RAN4 only considers DL CA.

**Decision: Return to.**

**Conclusions after 2nd round:**

#### 10.2.1 General and work plan

[**R4-2112391**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112391.zip) **NR NTN and Irregular Channel Bandwidths**

*Type: discussion For: Decision  
 Source: GLOBALSTAR Inc.*

**Abstract:**

Discussion of irregular channel bandwidths for NR NTN (also submitted to agenda item 9.13.1.1).

**Decision:** The document was **not treated**.

[**R4-2113948**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113948.zip) **draft TR 38.844 v0.0.4**

*Type: draft TR For: Approval  
 38.844 v0.0.3 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Updated with agreed TP from RAN4 #99bis-e

**Decision:** The document was **not treated**.

#### 10.2.2 Evaluation of use of larger channel bandwidths than operator licensed bandwidth

[**R4-2111744**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111744.zip) **Discussion on the approach of using larger channel bandwidths**

*Type: discussion For: Discussion  
 Source: China Telecommunications*

**Decision:** The document was **not treated**.

[**R4-2111815**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111815.zip) **Discussion on the approach of using larger channel bandwidths**

*Type: discussion For: Discussion  
 Source: China Telecommunications*

**Decision:** The document was **withdrawn**.

[**R4-2112327**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112327.zip) **Further discussion on immediate wider channel bandwidth**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

[**R4-2112365**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112365.zip) **TP on using next larger channel bandwidth solution**

*Type: pCR For: Approval  
 38.844 v0.0.3 CR- rev Cat: (Rel-17)  
  
 Source: Apple, Skyworks Solutions Inc.*

**Decision:** The document was **not treated**.

[**R4-2113045**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113045.zip) **Evaluation for use of larger channel bandwidth**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113161**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113161.zip) **Views on the next wider channel BW method**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

[**R4-2113657**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113657.zip) **TP to TR on immediate wider bandwidth**

*Type: pCR For: Approval  
 38.844 v0.0.4 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TP to update the TR with input on the immediate wider BW method

**Decision:** The document was **not treated**.

[**R4-2114004**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114004.zip) **Views on next wider channel bandwidth**

*Type: discussion For: Decision  
 Source: MediaTek (Chengdu) Inc.*

**Decision:** The document was **not treated**.

[**R4-2114239**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114239.zip) **TP\_TR38.844 n85\_6\_MHz**

*Type: pCR For: Approval  
 38.844 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

[**R4-2114240**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114240.zip) **6 MHz n85 with 5 MHz n12 Discussion**

*Type: discussion For: Approval  
 Source: T-Mobile USA*

**Decision:** The document was **not treated**.

#### 10.2.3 Evaluation of use of overlapping UE channel bandwidths

[**R4-2111743**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111743.zip) **Discussion on the approach of using overlapping channel bandwidths**

*Type: discussion For: Discussion  
 Source: China Telecommunications*

**Decision:** The document was **not treated**.

[**R4-2112190**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112190.zip) **Discussion on the approaches of overlapping channel bandwidths**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112233**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112233.zip) **Open Issues for Overlapping UE Channel Bandwidths Schemes**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

[**R4-2112328**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112328.zip) **Further discussion on overlapping UE channel bandwidth**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

[**R4-2113046**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113046.zip) **TP on overlapping UE channel bandwidths**

*Type: pCR For: Approval  
 38.844 v0.0.4 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113162**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113162.zip) **Views on the Overlapping CBW from UE and Network perspective**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

[**R4-2113949**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113949.zip) **TP to TR 38.844: Section 6.2 Overlapping UE Channel BWs**

*Type: pCR For: Approval  
 38.844 v0.0.4 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

In this contribution, discussion and text proposal is presented on overlapping UE channel bandwidth approach.

**Decision:** The document was **not treated**.

[**R4-2114005**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114005.zip) **Views on overlapping carrier aggregation**

*Type: discussion For: Decision  
 Source: MediaTek (Chengdu) Inc.*

**Decision:** The document was **not treated**.

[**R4-2114367**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114367.zip) **On the use of overlapping channel bandwidths from UE perspective**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 10.2.4 Others

[**R4-2113950**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113950.zip) **TP to TR 38.844: Section 6.5 RAN1 and RAN2 Impacts**

*Type: pCR For: Approval  
 38.844 v0.0.4 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

In this contribution, a text proposal is presented to help capture the current understanding on RAN1 and RAN2 impacts for each approach which has been currently introduced into the TR.

**Decision:** The document was **not treated**.

[**R4-2114006**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114006.zip) **Views on combined UE bandwidth**

*Type: discussion For: Decision  
 Source: MediaTek (Chengdu) Inc.*

**Decision:** The document was **not treated**.

### 10.3 Study on band combination handling in RAN4

**Email discussion summary of [100-e][144] FS\_BC\_handling, AI 10.3 –Zhifeng Ma**

[**R4-2114744**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114744.zip) **Email discussion summary for [100-e][144] FS\_BC\_handling**

*Type: other For: Information  
 Source: Moderator (ZTE)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round**

**Conclusions after 2nd round**

#### 10.3.1 General and TR

[**R4-2112717**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112717.zip) **TR 38.862 V020 Band combination handling**

*Type: draft TR For: Approval  
 38.862 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This paper is to provide TR 38.862 V020 for band combination handling.

**Decision:** The document was **not treated**.

#### 10.3.2 How to introduce band combinations including TP format

[**R4-2112719**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112719.zip) **TP on rules of DC configuration table**

*Type: pCR For: Approval  
 38.862 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

In this proposal, we provides the rules of DC configuration table as a text proposal to the new TR

**Decision:** The document was **not treated**.

#### 10.3.3 Rules and guidelines of specifying band combinations including notations of CA/DC combinations

[**R4-2112718**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112718.zip) **TP on ULSUP notation**

*Type: pCR For: Approval  
 38.862 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

In this text proposal, we add the notation of ULSUP to the TR.

**Decision:** The document was **not treated**.

[**R4-2112792**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112792.zip) **Statistical distribution of dTib values**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2113568**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113568.zip) **Discussion on addition or removal of channel BW’s (NBC changes) in existing BCS’s**

*Type: discussion For: Endorsement  
 Source: Ericsson*

**Abstract:**

Discussion on addition or removal of channel BW’s (NBC changes) in existing BCS’s

**Decision:** The document was **not treated**.

#### 10.3.4 Improving RAN4 specification structures and reducing redundant contents

[**R4-2112437**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112437.zip) **Discussion on rules based approach and optimized tables of delta TIB and RIB**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2112720**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112720.zip) **TP on channel bandwidth for CA configuration table**

*Type: pCR For: Approval  
 38.862 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

In this proposal, we update the table of channel bandwidth for each NR band with the new template for CA configuration table.

**Decision:** The document was **not treated**.

[**R4-2114238**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114238.zip) **TP for TR 38.862: WID realignment**

*Type: pCR For: Approval  
 38.862 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: T-Mobile USA, Ericsson, AT&T*

**Decision:** The document was **not treated**.

#### 10.3.5 Others

[**R4-2112176**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112176.zip) **TP on the rules of NE-DC with contiguous intra-band NR and LTE carriers**

*Type: pCR For: Approval  
 38.862 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2112436**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112436.zip) **Optimization to configurations table of inter-band EN-DC and NE-DC including FR2,inter-band EN-DC including FR1 and FR2, inter-band NR-DC between FR1 and FR2**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

[**R4-2112916**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112916.zip) **TP to TR38.862: Guidelines on the band edge relaxation for MOP for CA/DC band combination**

*Type: pCR For: Approval  
 38.862 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

### 10.4 Study on extended 600MHz NR band

**Email discussion summary of [100-e][145] FS\_NR\_600MHz\_ext, AI 10.4 – Christian Bergljung**

[**R4-2114745**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114745.zip) **Email discussion summary for [100-e][145] FS\_NR\_600MHz\_ext**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**GTW in 1st round:**

* LS to AWG, two alternatives for conveying the study outcome
  1. LS from RAN#93-e with an approved TR attached (should ideally be an ‘External TR’ to be included in an LS to an external group)
  2. LS to AWG-28 (6-14th September 2021) sent directly from RAN4#100-e but without the draft TR attached, this LS could also ask about a preferred band arrangement
  3. Proposal from moderator: Alt 2, combine the contents of two proposed draft LS submitted
     + Conclusions on the band options B1, B2 and B2a
     + Ask AWG for a preferred band arrangement
     + TR not attached since internal and draft (AWG can find the internal TR on the 3GPP site)

**Agreement:**

* LS to AWG-28 and CC RAN sent directly from RAN4#100-e with the contents and conclusions endorsed in TR by RAN4 on the band options B1, B2 and B2a.
* Spark will prepare draft LS based on companies’ input ([R4-2114394](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114394.zip)), and we will come back to it on Thursday (August 19) GTW if the draft is ready.

**Conclusions after 1st round:**

**R4-2114750 LS on the progress of the study item on extended 600MHz NR band**

*Type: other For: Information  
 Source: Spark*

**Abstract:**

This contribution provides the LS on the progress of SI to AWG.

**Discussion:**

**GTW on August 19**

**Agreement:** remove summary section.

**Decision: Return to.**

**Conclusions after 2nd round:**

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[**R4-2111721**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111721.zip) **Study on extended 600MHz NR band**

*Type: draft TR For: Approval  
 38.860 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Spark NZ Ltd*

**Abstract:**

During RAN4 99e meeting various texts to different sections of TR 38 860 were approved. This contribution presents a record of what was approved in the version 0.2 of TR 38 860 and requests that this version become version 0.3 and become base line for an

**Decision:** The document was **not treated**.

[**R4-2111742**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111742.zip) **Study on extended 600MHz NR band**

*Type: draft TR For: Approval  
 38.860 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Spark NZ Ltd*

**Abstract:**

During RAN 4 100 e meeting various TPs to TR 38 860 are expected.. This document aims to consolidate all agreed TPs into TR 38 860 and make this a v 1.0.0 and submit for plenary approval

**Decision:** The document was **not treated**.

#### 10.4.1 General

[**R4-2114379**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114379.zip) **Proposals to conclude the APT600 study**

*Type: discussion For: Approval  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2114394**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114394.zip) **[Draft] LS on the progress of the study item on extended 600MHz NR band**

*Type: LS out For: Approval  
 to APT Wireless Group, cc TSG RAN  
 Source: Huawei, HiSilicon, Spark NZ Ltd*

**Abstract:**

In this contribution we provide LS to the APT Wireless Group, informing on the completion of the SI on extended 600MHz NR band for APT region. AWG is asked to provide feedback on the preferred band arrangement in 612 - 703 MHz frequency range, based on th

**Decision:** The document was **not treated**.

#### 10.4.2 Coexistence study

[**R4-2113217**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113217.zip) **TP to TR 38.860: coexistence with other services**

*Type: pCR For: Approval  
 38.860 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 10.4.3 Study on frequency arrangements (such as options B1 and B2)

[**R4-2112831**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112831.zip) **TP for 38.860: APT600 band specific aspects**

*Type: pCR For: Approval  
 38.860 v0.0.2 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This contribution contains a TP on APT 600 band specific issues for the frequency arrangements (e.g. use of multiple-FBI)

**Decision:** The document was **not treated**.

[**R4-2113218**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113218.zip) **Discussion on frequency arrangement for APT 600 MHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2114224**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114224.zip) **TP for 38.860: Further B1 filter optimization**

*Type: pCR For: Approval  
 38.860 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 10.4.4 Others

[**R4-2113736**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113736.zip) **TP to TR 38.860 - Conclusion**

*Type: pCR For: Approval  
 38.860 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This TP to TR is proposing a conclusion for the SI on extented 600MHz NR band

**Decision:** The document was **not treated**.

[**R4-2114562**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114562.zip) **TP to TR 38.860: editorial cleanup**

*Type: pCR For: Approval  
 38.860 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei*

**Abstract:**

TR 38.860 was scanned for the issues which require corrections before the SI is closed. Several aspects were corrected, with couple of outstanding issues being identified. Additionally, editorial corrections were implemented to follow 3GPP drafting rules.

**Decision:** The document was **not treated**.

### 10.5 Study on high power UE (power class 2) for one NR FDD band

**Email discussion summary of [100-e][146] FS\_NR\_PC2\_UE\_FDD, AI 10.5 – Basaier Jialade**

[**R4-2114746**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114746.zip) **Email discussion summary for [100-e][146] FS\_NR\_PC2\_UE\_FDD**

*Type: other For: Information  
 Source: Moderator (China Unicom)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**GTW in 1st round:**

**Issue 1-1: NR FDD duty cycle**

* Proposals：The optional UE capability for duty cycle is reported to the network.

Note 1: UE-implementation based method (P-MPR) is the baseline SAR solution, which covers the method that duty cycle is not reported but used by UE implementation.

Note 2: There is no restriction on network behaviours by introducing optional capability of duty cycle reporting.

* Recommended WF
  + To check whether duty cycle reporting as an optional capability can be introduced for FDD HPUE.

**Discussions:**

OPPO: in last meeting, we have agreement that how to handle duty cycle is up to UE implementation including where the window starts and the duration. BS cannot do anything even if UE reports capability. How can BS use the capability?

Apple: For clarification, what is the purpose of this open issue? Does it want to define the capability? The existing signalling applies for FR1 bands including TDD and FDD. The capability is already there. No need of new one.

Ericsson: Agree with conclusion in OPPO paper. It is not possible for BS to use the information. We raise general question for duty cycle capability. At least for single uplink TDD capability, the UL-DL configuration is fixed. There is slightly different for FDD comparing with TDD. No reason to repeat this.

Huawei: In our view, it is up to network implementation. BS can decide whether to do some limitation for power. The capability has been discussed for a long time. All existing HPUE WIs provide the duty cycle capability. If we can reuse the existing capability, it would be possible, but we need check the exact wording of the existing signalling.

CUC: It is up to BS to decide how to use and configure. The purpose to introduce duty cycle is that UE can meet the requirements even if the Tx power is high. But UE may need network help to use high power.

VIVO: support moderator view. The P-MPR range is unclear. The power backoff is 3dB. The capability is helpful. For start of window, we have the solution.

T-Mobile: with TDD, there is duty cycle. For TDD, it makes sense. For FDD, you put the constrain for scheduling for some case when UE has 1 PRB. If you have 2 PRB or more, having 50% duty cycle may not be helpful in terms of PSD. There is some corner case the capability is helpful.

CUC: We see the benefit due to nature of uplink traffic. Uplink traffic is not continuous rather burst. The transmission can be finalized in short time.

LGE: Support moderator proposal. Duty cycle capability is optional. Network can use the information.

Xiaomi: Agree with Apple. The similar duty cycle capability can be used. If duty cycle is reported, whether UE falls back is allowed or not.

ZTE: Support moderator view. In our view the duty cycle solution is the same as other HPUE topics.

Samsung: We echo OPPO view. UE implementation does not put constraint on network. But we can support moderator proposal.

OPPO: we are not against optional duty cycle capability. We just want to clarify how BS use it. In RAN5 testing, is it possible for RAN5 to test HPUE if UE does not report capability.

Ericsson: Supposing that network can count for duty cycle, from SAR perspective, the SAR level depends on actual UE transmission power. Network may artificially constrain the Tx power/scheduler even if the transmission power is not max, and there would be no SAR issue. What would be fallback behaviour? In testing in RAN5, we expect power class can be tested by using RMC which should not be 100%. It is different from TDD where we have UL-DL configuration. Network can decide whether to schedule flexible symbol in TDD case.

InterDigital: I agree with T-Mobile and Ericsson. SAR is measured per band. It is about antenna. Not only for Tx power class. This kind of capability is for per band. In FDD, it is very hard to use and make decision based on duty cycle. Usually scheduler has to have entire freedom to schedule only when P-MPR is reported. It depends on the sensor, implementation. P-MPR is calibrated. It is complicated use case for this capability.

VIVO: the difference between P-MPR and duty cycle is to help network be aligned with UE. For testing, if we have duty cycle capability, we think maximum duty cycle is applied otherwise we fall back.

Huawei: It is study item. Duty cycle reporting is not a new and discussed from Rel-15. We know that there is trade-off. The additional information would be helpful for network. To T-Mobile, the opportunity to schedule more PB is less likely. Ericsson’s comment is not only applied for this SI but also for other WI.

Ericsson: For TDD, single uplink, we have agreed the capability in past. It could be possibly used to schedule UE in flexible symbol when UL-DL configuration is fixed. For EN-DC, we have the same problem. Duty cycle takes two uplink into account. We have the same problem on ambiguity to decide the power.

Huawei: it is optional capability.

VIVO: we also have intra-band CA.

Chair: In order to close SI, we can consider the tentative conclusions for duty cycle capability for FDD HPUE, i.e., there is no consensus on duty cycle capability for FDD HPUE in SI, but it does not impact closing SI.

* Come back to check the progress on Friday GTW.

**Issue 1-2: Interference**

The following proposals are summarized based on inputs in this meeting.

Proposal 1: To capture the available MSD values in R4-2112911 and R4-2114695 into the TR 38.861 as a reference. Alignment of calculated and measurement results will be further discussed in the WI stage.

Proposal 2: Current analyses are based on existing RF components. Parameters of new components with higher power handling capability and larger rejection capability, if available, can be considered at WI stage.

* Recommended WF
  + TBA

**Discussions:**

Apple: we also need consider blocker and other factor for MSD. Not all the factors are considered in the evaluation.

Huawei: SI is just for n1 and n3. Based on our observation, it seems MSD is not a big issue for this band. We agree to capture the inputs in TR as starting point. We have measurement results. We wonder if the factors mentioned by Apple are considered for measurement results.

LGE: we consider noise level… which causes defesens. We can capture all the results in the TR. We should consider mixed impacts.

Skyworks: we agree with moderator proposal. As far as refesens level, we have used the delta-MSD method based on Tx noise level and islolation of 50dB. Tx noise level, PC2 refesens level for some band would be lower than the agreed level for PC3. When we do PC3, we have the same observation. For PC3, we use different MSD than agreed one. MSD may look high. We agree with Apple we do not consider impact on Tx chain. To LGE, the reported noise level can be used for other isolation value.

**Agreement:**

* Capture the inputs of MSD values from companies, and interpret the meaning behind values, if needed.
  + Capture all the factors which should be considered further when defining the requirements
* Identify the open issues to be addressed in follow-up work after closing SI.
* LGE will provide revised TP to capture all the inputs of MSD.

**Issue 1-3: SI Conclusion**

Comments can be made in the 1.3.2 CR/TP comments section, R4-2112427.

**Discussion:**

Ericsson: have concern on the duty cycle part in conclusion and need softening the wording.

Apple: need clarification on part related to simulation results. For some bands, the potential degradation on reference sensitivity would be high.

Chair: Remind that company also need to check TP capturing simulation results.

Huawei: for duty cycle, need more discussion.

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

#### 10.5.1 General

[**R4-2112427**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112427.zip) **TP for TR 38.861 Conclusion of SI for FDD HPUE**

*Type: pCR For: Approval  
 38.861 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **not treated**.

[**R4-2112470**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112470.zip) **TR 38.861 v1.1.0 FS\_NR\_PC2\_UE\_FDD**

*Type: draft TR For: Approval  
 38.861 v1.1.0 CR- rev Cat: (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **not treated**.

[**R4-2113001**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113001.zip) **TP to TR38.861 Dynamic system level simulation results for FDD HPUE**

*Type: pCR For: Approval  
 38.861 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: vivo, Huawei, HiSilicon, ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113025**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113025.zip) **Further system performance evaluation for FDD HPUE**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

#### 10.5.2 Duty cycle in FDD bands for SAR issue

[**R4-2112428**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112428.zip) **Discussion on duty cycle in FDD bands for SAR issue**

*Type: discussion For: Approval  
 Source: China Unicom*

**Decision:** The document was **not treated**.

[**R4-2112999**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112999.zip) **Discussion on UE capability for SAR scheme of FDD HPUE**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113301**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113301.zip) **Discussion on HP UE for FDD bands**

*Type: discussion For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113905**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113905.zip) **R17 FDD HPUE**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 10.5.3 Analyses on receiver sensitivity degradation

[**R4-2112834**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112834.zip) **TP on Sensitivity analysis results and UE implementation for PC2 FDD band**

*Type: pCR For: Approval  
 38.861 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics Inc.*

**Abstract:**

In this contribution, we provide Text proposals to capture the expected sensitivity degradation in n1/n3 by high power transmission and wide CBW in n3. Also, we provide current RF component characteristics and parameters for PA and Duplexer in FDD band.

**Decision:** The document was **not treated**.

[**R4-2112911**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112911.zip) **Discussion on interference for HPUE FDD band**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2114580**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114580.zip) **n3 PC2 MSD**

*Type: discussion For: Approval  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document presents preliminary and partial measurement results to evaluate n3 PC2 REFSENS.

**Decision: Revised to** [**R4-2114695**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114695.zip) **(from** [**R4-2114580**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114580.zip)**).**

[**R4-2114695**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114695.zip) **n3 PC2 MSD**

*Type: discussion For: Approval  
 Source: Skyworks Solutions Inc.*

**Abstract:**

This document presents preliminary and partial measurement results to evaluate n3 PC2 REFSENS.

**Decision:** The document was **not treated**.

### 10.6 Optimizations of pi/2 BPSK uplink power in NR

**Email discussion summary of [100-e][147] FS\_NR\_Opt\_pi2BPSK, AI 10.6 – Chan Fernando**

[**R4-2114747**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114747.zip) **Email discussion summary for [100-e][147] FS\_NR\_Opt\_pi2BPSK**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

#### 10.6.1 General and work plan

[**R4-2112286**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112286.zip) **TR skeleton for SI on optimizations of pi\_2 BPSK uplink power**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Update TR for ‘Optimizations of pi/2 BPSK uplink power in NR’ is presented

**Decision:** The document was **not treated**.

#### 10.6.2 UE Tx power for pi/2 BPSK

[**R4-2112282**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112282.zip) **Pi/2 BPSK PC2 measurements**

*Type: discussion For: Approval  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Presents Pi/2 BPSK PC2 measurements

**Decision:** The document was **not treated**.

[**R4-2112347**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112347.zip) **Considerations and simulation results for pi/2 BPSK**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112806**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112806.zip) **Transmitter performance for pi/2 BPSK with spectral shaping?**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2114517**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114517.zip) **On power enhancement for Pi/2 BPSK**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 10.6.3 SAR analysis

#### 10.6.4 Shaping filter characteristics

[**R4-2112807**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112807.zip) **Shaping filter characteristics including transmitter and link performance?**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2114518**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114518.zip) **Shaping filter characteristics for Pi/2 BPSK**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 10.6.5 Link simulation

[**R4-2112281**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112281.zip) **Pi/2 BPSK link level simulations**

*Type: discussion For: Discussion  
 38.101-1 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

Presents link simulation results for filtered Pi/2 BPSK waveforms

**Decision:** The document was **not treated**.

[**R4-2112805**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112805.zip) **Receiver performance for pi/2 BPSK with spectral shaping**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2114519**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114519.zip) **Link level evaluation for Pi/2 BPSK**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 10.7 Study on 5G NR UE Application Layer Data Throughput Performance

#### 10.7.1 General and work plan

[**R4-2113123**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113123.zip) **Summary of simulation results for NR UE Application Layer Data Throughput Performance**

*Type: other For: Information  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

[**R4-2113130**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113130.zip) **Draft CR to TR 37.901-5: Simulation results section**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

[**R4-2113644**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113644.zip) **Draft TP on ATP performance simulation alignment criteria**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This draft TR submits the section of simulation alignment criteria for ATP

**Decision:** The document was **not treated**.

[**R4-2114477**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114477.zip) **Draft CR on General and Summary Sections in RAN4 study on Application Layer Throughput Requirements**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

[**R4-2114569**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114569.zip) **LS on RAN4 updates to TR 37.901-5**

*Type: LS out For: Agreement  
 to RAN5  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 10.7.2 Test methodology

[**R4-2112110**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112110.zip) **Simulation results for physical layer Throughput**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2113124**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113124.zip) **Discussion on NR UE Application Layer Data Throughput Performance**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

[**R4-2113642**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113642.zip) **Remaining issues on Test methodology for application layer data throughput performance**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses ATP methodology

**Decision:** The document was **not treated**.

[**R4-2113643**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113643.zip) **Simulation results for application layer data throughput performance**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution submits our simulation results for ATP

**Decision:** The document was **not treated**.

[**R4-2114474**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114474.zip) **Simulation Results for Application Layer Throughput Tests**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 10.7.3 Test parameters

[**R4-2113787**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113787.zip) **Discussion on open issues on Application layer data throughput performance**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113788**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113788.zip) **Simulation results for application layer data throughput performance**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113789**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113789.zip) **draftCR:Simulation assumptions for application layer data throughput performance**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114042**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114042.zip) **Simulation results for the study on application layer throughput requirements**

*Type: discussion For: (not specified)  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

## 11 Rel-17 Work Items for LTE

### 11.1 LTE inter-band Carrier Aggregation for 2 bands DL with 1 band UL

**Email discussion summary of [100-e][148] LTE\_Baskets, AI 11.1, 11.2, 11.3, 11.4, 11.5, 11.7 –Per Lindell**

[**R4-2114748**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114748.zip) **Email discussion summary for [100-e][148] LTE\_Baskets**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions**

#### 11.1.1 Rapporteur Input (WID/TR/CR)

[**R4-2112238**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112238.zip) **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:** The document was **for email approval**.

[**R4-2112239**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112239.zip) **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 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **for email approval**.

[**R4-2112240**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112240.zip) **Big CR to TS36.101: Rel-17 LTE inter-band CA for 2 bands DL and 1 band UL CA**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5800 rev Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **for email approval**.

#### 11.1.2 UE RF with harmonic, close proximity and isolation issues

#### 11.1.3 UE RF without specific issues

[**R4-2112590**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112590.zip) **draft CR to TS 36.101 for LTE CA\_3A-8B, CA\_3A-3A-8B, CA\_7A-8B, CA\_7A-7A-8B**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

[**R4-2112802**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112802.zip) **DraftCR 36.101: Addition of CA\_2C-28A**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Revised to** **R4-2114756 (from R4-2112802).**

[**R4-2114756**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112802.zip) **DraftCR 36.101: Addition of CA\_2C-28A**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Telefonica*

**Decision: Return to.**

[**R4-2112966**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112966.zip) **TP for TR 36.717-02-01: CA\_3A-3A-38A**

*Type: pCR For: Approval  
 36.717-02-01 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal for LTE CA band combination CA\_3A-3A-38A for TR 36.717-02-01. Only 1 UL is considered.

**Decision:** The document was **not treated**.

[**R4-2112967**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112967.zip) **TP for TR 36.717-02-01: CA\_32A-38A**

*Type: pCR For: Approval  
 36.717-02-01 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal for LTE CA band combination CA\_32A-38A for TR 36.717-02-01.

**Decision:** The document was **not treated**.

### 11.2 LTE inter-band Carrier Aggregation for 3 bands DL with 1 band UL

[**R4-2114538**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114538.zip) **Introduction of completed R17 3DL band combinations to TS 36.101**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5815 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **for email approval**.

#### 11.2.1 Rapporteur Input (WID/TR/CR)

[**R4-2112004**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112004.zip) **TR 38.717-03-01 on Rel-17 NR inter-band Carrier Aggregation (CA) for 3 Down Link (DL) / 1 Up Link (UL) v.0.5.0**

*Type: draft TR For: Approval  
 38.717-03-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **for email approval**.

[**R4-2112005**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112005.zip) **Revised WID on Rel-17 NR inter-band CA of 3DL bands and 1UL band**

*Type: WID revised For: Endorsement  
 Source: CATT*

**Decision:** The document was **for email approval**.

[**R4-2112006**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112006.zip) **CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-1**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0884 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **for email approval**.

[**R4-2112007**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112007.zip) **CR on Introducing NR inter-band CA for 3DL Bands and 1UL band for 38.101-3**

*Type: CR For: Agreement  
 38.101-3 v17.2.0 CR-0612 rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **for email approval**.

[**R4-2112008**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112008.zip) **TR 38.717-03-01 on Rel-17 NR inter-band Carrier Aggregation (CA) for 3 Down Link (DL) / 1 Up Link (UL) v.0.6.0**

*Type: draft TR For: Agreement  
 38.717-03-01 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **for email approval**.

[**R4-2114537**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114537.zip) **TR 36.717-03-01 0.4.0**

*Type: draft TR For: (not specified)  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **for email approval**.

#### 11.2.2 UE RF with harmonic, close proximity and isolation issues

#### 11.2.3 UE RF without specific issues

[**R4-2112628**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112628.zip) **draft CR to TS 36.101 for LTE CA\_3A-7A-8B, CA\_3A-3A-7A-8B, CA\_3A-7A-7A-8B, CA\_3A-3A-7A-7A-8B**

*Type: draftCR For: Approval  
 36.101 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CHTTL*

**Decision:** The document was **not treated**.

[**R4-2113027**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113027.zip) **TP for TR 36.717-03-01: CA\_1A-3A-3A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-3A-38A for TR 36.717-03-01.

**Decision: Revised to** **R4-2114759 (from R4-2113027).**

[**R4-2114759**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113027.zip) **TP for TR 36.717-03-01: CA\_1A-3A-3A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-3A-38A for TR 36.717-03-01.

**Decision: Return to.**

[**R4-2113032**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113032.zip) **TP for TR 36.717-03-01: CA\_1A-28A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-28A-38A for TR 36.717-03-01.

**Decision: Revised to R4-2114760 (from R4-2113032).**

[**R4-2114760**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113032.zip) **TP for TR 36.717-03-01: CA\_1A-28A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-28A-38A for TR 36.717-03-01.

**Decision: Return to.**

[**R4-2113034**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113034.zip) **TP for TR 36.717-03-01: CA\_1A-32A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-32A-38A for TR 36.717-03-01.

**Decision: Revised to R4-2114761 (from R4-2113034).**

[**R4-2114761**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113034.zip) **TP for TR 36.717-03-01: CA\_1A-32A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-32A-38A for TR 36.717-03-01.

**Decision: Return to.**

[**R4-2113036**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113036.zip) **TP for TR 36.717-03-01: CA\_3A-3A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-3A-8A-38A for TR 36.717-03-01.

**Decision: Revised to** **R4-2114762 (from R4-2113036).**

[**R4-2114762**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113036.zip) **TP for TR 36.717-03-01: CA\_3A-3A-8A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-3A-8A-38A for TR 36.717-03-01.

**Decision: Return to.**

[**R4-2113037**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113037.zip) **TP for TR 36.717-03-01: CA\_8A-32A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_8A-32A-38A for TR 36.717-03-01.

**Decision:** The document was **not treated**.

[**R4-2113038**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113038.zip) **TP for TR 36.717-03-01: CA\_20A-28A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_20A-28A-38A for TR 36.717-03-01.

**Decision: Revised to R4-2114763 (from R4-2113038).**

[**R4-2114763**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113038.zip) **TP for TR 36.717-03-01: CA\_20A-28A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_20A-28A-38A for TR 36.717-03-01.

**Decision: Return to.**

[**R4-2113090**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113090.zip) **TP for TR 36.717-03-01: CA\_20A-32A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_20A-32A-38A for TR 36.717-03-01.

**Decision: Revised to R4-2114764 (from R4-2113090).**

**[R4-2114764](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113090.zip) TP for TR 36.717-03-01: CA\_20A-32A-38A**

*Type: pCR For: Approval  
 36.717-03-01 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_20A-32A-38A for TR 36.717-03-01.

**Decision: Return to.**

### 11.3 LTE inter-band Carrier Aggregation for x bands DL (x=4, 5) with 1 band UL

#### 11.3.1 Rapporteur Input (WID/TR/CR)

[**R4-2112782**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112782.zip) **Release independence aspect of 6-band LTE CA**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112783**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112783.zip) **CR Release independence aspect of 6-band LTE CA R14 CATB**

*Type: draftCR For: Endorsement  
 36.307 v14.10.0 CR- rev Cat: B (Rel-14)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112784**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112784.zip) **CR Release independence aspect of 6-band LTE CA R15 CATA**

*Type: draftCR For: Endorsement  
 36.307 v15.7.0 CR- rev Cat: A (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2112785**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112785.zip) **CR Release independence aspect of 6-band LTE CA R16 CATA**

*Type: draftCR For: Endorsement  
 36.307 v16.3.0 CR- rev Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2114060**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114060.zip) **Introduction of LTE inter-band Carrier Aggregation for x bands DL (x=4, 5) with 1 band UL to TS36.101**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5812 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **for email approval**.

[**R4-2114362**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114362.zip) **Revised WID: LTE Advanced inter-band CA Rel-17 for x bands DL (x=4, 5, 6) with 1 band UL**

*Type: WID revised For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **for email approval**.

[**R4-2114363**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114363.zip) **TR 36.717-04-01 v0.6.0**

*Type: draft TR For: Approval  
 36.717-04-01 v0.6.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **for email approval**.

[**R4-2114364**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114364.zip) **Updated scope of TR: LTE inter-band CA for 4/5/6 bands DL with 1 band UL**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 11.3.2 UE RF with 4 LTE bands CA

[**R4-2112926**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112926.zip) **TP for 36.717-04-01: CA\_1A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Revised to** **R4-2114758 (from R4-2112926).**

[**R4-2114758**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112926.zip) **TP for 36.717-04-01: CA\_1A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Return to.**

[**R4-2113093**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113093.zip) **TP for TR 36.717-04-01: CA\_1A-3A-3A-8A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-3A-8A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114765 (from R4-2113093).**

[**R4-2114765**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113093.zip) **TP for TR 36.717-04-01: CA\_1A-3A-3A-8A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-3A-8A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113094**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113094.zip) **TP for TR 36.717-04-01: CA\_1A-3A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114766 (from R4-2113094).**

[**R4-2114766**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113094.zip) **TP for TR 36.717-04-01: CA\_1A-3A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113110**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113110.zip) **TP for TR 36.717-04-01: CA\_1A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-20A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114767 (from R4-2113110).**

[**R4-2114767**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113110.zip) **TP for TR 36.717-04-01: CA\_1A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-20A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113112**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113112.zip) **TP for TR 36.717-04-01: CA\_1A-7A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114768 (from R4-2113112).**

[**R4-2114768**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113112.zip) **TP for TR 36.717-04-01: CA\_1A-7A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113113**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113113.zip) **TP for TR 36.717-04-01: CA\_1A-7A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114769 (from R4-2113113).**

[**R4-2114769**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113113.zip) **TP for TR 36.717-04-01: CA\_1A-7A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113114**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113114.zip) **TP for TR 36.717-04-01: CA\_1A-8A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-8A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114770 (from R4-2113114).**

[**R4-2114770**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113114.zip) **TP for TR 36.717-04-01: CA\_1A-8A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-8A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113115**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113115.zip) **TP for TR 36.717-04-01: CA\_1A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114771 (from R4-2113115).**

[**R4-2114771**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113115.zip) **TP for TR 36.717-04-01: CA\_1A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113116**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113116.zip) **TP for TR 36.717-04-01: CA\_1A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-20A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114772 (from R4-2113116).**

[**R4-2114772**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113116.zip) **TP for TR 36.717-04-01: CA\_1A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-20A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113117**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113117.zip) **TP for TR 36.717-04-01: CA\_3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-7A-20A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114773 (from R4-2113117).**

[**R4-2114773**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113117.zip) **TP for TR 36.717-04-01: CA\_3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-7A-20A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113163**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113163.zip) **TP for TR 36.717-04-01: CA\_3A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114774 (from R4-2113163).**

[**R4-2114774**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113163.zip) **TP for TR 36.717-04-01: CA\_3A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113164**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113164.zip) **TP for TR 36.717-04-01: CA\_7A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-8A-20A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114775 (from R4-2113164).**

[**R4-2114775**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113164.zip) **TP for TR 36.717-04-01: CA\_7A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-8A-20A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113165**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113165.zip) **TP for TR 36.717-04-01: CA\_7A-8A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-8A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114776 (from R4-2113165).**

[**R4-2114776**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113165.zip) **TP for TR 36.717-04-01: CA\_7A-8A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-8A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113166**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113166.zip) **TP for TR 36.717-04-01: CA\_7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114777 (from R4-2113166).**

[**R4-2114777**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113166.zip) **TP for TR 36.717-04-01: CA\_7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113169**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113169.zip) **TP for TR 36.717-04-01: CA\_7A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-20A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114778 (from R4-2113169).**

[**R4-2114778**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113169.zip) **TP for TR 36.717-04-01: CA\_7A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-20A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113293**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113293.zip) **TP for TR 36.717-04-01: CA\_8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114779 (from R4-2113293).**

**[R4-2114779](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113293.zip) TP for TR 36.717-04-01: CA\_8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

#### 11.3.3 UE RF with 5 LTE bands CA

[**R4-2113295**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113295.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7A-20A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114780 (from R4-2113295).**

[**R4-2114780**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113295.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7A-20A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113308**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113308.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114781 (from R4-2113308).**

[**R4-2114781**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113308.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113309**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113309.zip) **TP for TR 36.717-04-01: CA\_1A-3A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114782 (from R4-2113309).**

[**R4-2114782**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113309.zip) **TP for TR 36.717-04-01: CA\_1A-3A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113319**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113319.zip) **TP for TR 36.717-04-01: CA\_1A-7A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-8A-20A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114783 (from R4-2113319).**

[**R4-2114783**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113319.zip) **TP for TR 36.717-04-01: CA\_1A-7A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-8A-20A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113320**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113320.zip) **TP for TR 36.717-04-01: CA\_1A-7A-8A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-8A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114784 (from R4-2113320).**

[**R4-2114784**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113320.zip) **TP for TR 36.717-04-01: CA\_1A-7A-8A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-8A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113321**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113321.zip) **TP for TR 36.717-04-01: CA\_1A-7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114785 (from R4-2113321).**

[**R4-2114785**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113321.zip) **TP for TR 36.717-04-01: CA\_1A-7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113322**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113322.zip) **TP for TR 36.717-04-01: CA\_1A-7A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-20A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114786 (from R4-2113322).**

[**R4-2114786**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113322.zip) **TP for TR 36.717-04-01: CA\_1A-7A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-20A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113323**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113323.zip) **TP for TR 36.717-04-01: CA\_1A-8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114787 (from R4-2113323).**

[**R4-2114787**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113323.zip) **TP for TR 36.717-04-01: CA\_1A-8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113338**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113338.zip) **TP for TR 36.717-04-01: CA\_3A-7A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-7A-8A-20A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114788 (from R4-2113338).**

[**R4-2114788**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113338.zip) **TP for TR 36.717-04-01: CA\_3A-7A-8A-20A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-7A-8A-20A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113339**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113339.zip) **TP for TR 36.717-04-01: CA\_3A-7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114789 (from R4-2113339).**

[**R4-2114789**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113339.zip) **TP for TR 36.717-04-01: CA\_3A-7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_3A-7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113340**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113340.zip) **TP for TR 36.717-04-01: CA\_7A-8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114790 (from R4-2113340).**

[**R4-2114790**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113340.zip) **TP for TR 36.717-04-01: CA\_7A-8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_7A-8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113341**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113341.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114791 (from R4-2113341).**

[**R4-2114791**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113341.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7A-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7A-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113342**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113342.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7C-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7C-20A-28A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114792 (from R4-2113342).**

[**R4-2114792**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113342.zip) **TP for TR 36.717-04-01: CA\_1A-3A-7C-20A-28A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-3A-7C-20A-28A-38A for TR 36.717-04-01.

**Decision: Return to.**

[**R4-2113343**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113343.zip) **TP for TR 36.717-04-01: CA\_1A-7A-8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Revised to R4-2114793 (from R4-2113343).**

**[R4-2114793](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113343.zip) TP for TR 36.717-04-01: CA\_1A-7A-8A-20A-32A-38A**

*Type: pCR For: Approval  
 36.717-04-01 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal on LTE CA band combination CA\_1A-7A-8A-20A-32A-38A for TR 36.717-04-01.

**Decision: Return to.**

### 11.4 LTE inter-band Carrier Aggregation for 2 bands DL with 2 band UL

#### 11.4.1 Rapporteur Input (WID/TR/CR)

[**R4-2114520**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114520.zip) **Introduction of completed LTE CA for 2 bands DL with 2 bands UL into Rel-17 TS 36.101**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5814 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **for email approval**.

[**R4-2114521**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114521.zip) **Revised WID for LTE inter-band CA for 2 bands DL with 2 bands UL**

*Type: WID revised For: Endorsement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **for email approval**.

[**R4-2114522**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114522.zip) **TR 36.717-02-02 v0.2.0**

*Type: draft TR For: Endorsement  
 36.717-02-02 v0.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 11.4.2 UE RF with harmonic, close proximity and isolation issues

#### 11.4.3 UE RF without specific issues

[**R4-2112973**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112973.zip) **TP for TR 36.717-02-02 to add UL configuration CA\_3A-38A for CA\_3A-38A**

*Type: pCR For: Approval  
 36.717-02-02 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: VODAFONE Group Plc*

**Abstract:**

This contribution provides a text proposal for the LTE UL configuration CA\_3A-38A for CA\_3A-38A requested in RAN4#99-e.

**Decision:** The document was **not treated**.

### 11.5 LTE inter-band Carrier Aggregation for x bands DL (x= 3, 4, 5) with 2 band UL

#### 11.5.1 Rapporteur Input (WID/TR/CR)

[**R4-2112711**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112711.zip) **TR 36.717-03-02 v0.5.0 TR update for LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL in Rel-17**

*Type: draft TR For: Agreement  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

To update the each CA band combinations based on the approved TP.

**Decision:** The document was **for email approval**.

[**R4-2112713**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112713.zip) **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 the each CA status and add new LTE-A CA band combinations in this meeting.

**Decision:** The document was **for email approval**.

[**R4-2112714**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112714.zip) **Introduction of LTE-A inter-band CA for x bands (x=3,4,5) DL with 2 bands UL to TS36.101**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5810 rev Cat: B (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

To introduce new LTE-A CA band combinations and related RF requirements for xDL/2UL CA.

**Decision:** The document was **for email approval**.

#### 11.5.2 UE RF with MSD

#### 11.5.3 UE RF without MSD

[**R4-2112712**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112712.zip) **TP on summary of self-interference analysis for new x bands (x=3,4,5) DL with 2 bands UL**

*Type: pCR For: Approval  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

To capture the self interference analysis results for x bands DL and 2 bands UL LTE-A CA (x=3,4,5)

**Decision: Revised to R4-2114755 (from R4-2112712).**

[**R4-2114755**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112712.zip) **TP on summary of self-interference analysis for new x bands (x=3,4,5) DL with 2 bands UL**

*Type: pCR For: Approval  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics France*

**Abstract:**

To capture the self interference analysis results for x bands DL and 2 bands UL LTE-A CA (x=3,4,5)

**Decision: Return to.**

[**R4-2112923**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112923.zip) **TP for 36.717-03-02: CA\_1A-7A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2112924**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112924.zip) **TP for 36.717-03-02: CA\_1A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Revised to R4-2114757 (from R4-2112924).**

[**R4-2114757**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112924.zip) **TP for 36.717-03-02: CA\_1A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision: Return to.**

[**R4-2112925**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112925.zip) **TP for 36.717-03-02: CA\_3A-20A-38A**

*Type: pCR For: Approval  
 36.717-03-02 v0.3.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

### 11.6 RRM for LTE CA basket WIs

#### 11.6.1 RRM Core (36.133)

#### 11.6.2 RRM Perf (36.133)

### 11.7 New WID on Additional LTE bands for UE category M1&M2 and/or NB1&NB2 in Rel-17

#### 11.7.1 Rapporteur Input (WID/TR/CR)

[**R4-2114347**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114347.zip) **Revised WID Additional LTE bands for UE category M1\_M2 \_NB1\_NB2 in Rel-17**

*Type: WID revised For: Endorsement  
 Source: Ericsson*

**Abstract:**

the WID is revised

**Decision:** The document was **not treated**.

#### 11.7.2 RF

[**R4-2112315**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112315.zip) **CAT-M1/M2 Simulation Results for LTE band 24**

*Type: discussion For: Approval  
 Source: Ligado Networks*

**Decision:** The document was **not treated**.

[**R4-2112317**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112317.zip) **CR for adding A-MPR for LTE Band 24 for UE categories M1 and M2**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5809 rev Cat: B (Rel-17)  
  
 Source: Ligado Networks*

**Decision:** The document was **not treated**.

[**R4-2114348**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114348.zip) **CR on adding B24 for Cat-M1\_M2 36.101**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5813 rev Cat: B (Rel-17)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M1/M2

**Decision: Revised to** **R4-2114870 (from R4-2114348).**

[**R4-2114870**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114348.zip) **CR on adding B24 for Cat-M1\_M2 36.101**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5813 rev Cat: B (Rel-17)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M1/M2

**Decision: Return to.**

[**R4-2114349**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114349.zip) **CR on adding B24 for Cat-M1\_M2 36.133**

*Type: CR For: Agreement  
 36.133 v17.2.0 CR-7129 rev Cat: B (Rel-17)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M1/M2

**Decision:** The document was **not treated**.

[**R4-2114350**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114350.zip) **CR on adding B24 for Cat-M1 36.307\_13B**

*Type: CR For: Agreement  
 36.307 v13.13.0 CR-4450 rev Cat: B (Rel-13)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M1

**Decision:** The document was **not treated**.

[**R4-2114351**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114351.zip) **CR on adding B24 for Cat-M2 36.307\_14B**

*Type: CR For: Agreement  
 36.307 v14.10.0 CR-4451 rev Cat: B (Rel-14)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M2

**Decision:** The document was **not treated**.

[**R4-2114352**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114352.zip) **CR on adding B24 for Cat-M1 36.307\_14A**

*Type: CR For: Agreement  
 36.307 v14.10.0 CR-4452 rev Cat: A (Rel-14)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M1

**Decision:** The document was **not treated**.

[**R4-2114353**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114353.zip) **CR on adding B24 for Cat-M1 36.307\_15A**

*Type: CR For: Agreement  
 36.307 v15.7.0 CR-4453 rev Cat: A (Rel-15)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M1

**Decision:** The document was **not treated**.

[**R4-2114354**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114354.zip) **CR on adding B24 for Cat-M1 36.307\_16A**

*Type: CR For: Agreement  
 36.307 v16.3.0 CR-4454 rev Cat: A (Rel-16)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M1

**Decision:** The document was **not treated**.

[**R4-2114355**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114355.zip) **CR on adding B24 for Cat-M2 36.307\_15A**

*Type: CR For: Agreement  
 36.307 v15.7.0 CR-4455 rev Cat: A (Rel-15)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M2

**Decision:** The document was **not treated**.

[**R4-2114356**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114356.zip) **CR on adding B24 for Cat-M2 36.307\_16A**

*Type: CR For: Agreement  
 36.307 v16.3.0 CR-4456 rev Cat: A (Rel-16)  
  
 Source: Ericsson, Ligado Network*

**Abstract:**

B24 is added to support Cat-M2

**Decision:** The document was **not treated**.

[**R4-2114585**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114585.zip) **CR for adding MOP for LTE Band 24 for UE categories M1 and M2**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5816 rev Cat: B (Rel-17)  
  
 Source: Ligado Networks*

**Decision:** The document was **not treated**.

#### 11.7.3 Others

[**R4-2114357**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114357.zip) **initial simulation result for A-MPR for Cat-M1**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present initial simulation results for A-MPR for Cat-M1

**Decision:** The document was **not treated**.

### 11.8 Additional enhancements for NB-IoT and LTE-MTC

**Refer to email discussion summary of [100-e][123] LTE\_NR\_Other\_basket, AI 8.42, AI 11.8 – Jin Wang**

#### 11.8.1 General and work plan

[**R4-2114218**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114218.zip) **Work plan of Rel-17 enhancements for NB-IoT and LTE-MTC**

*Type: Work Plan For: Approval  
 Source: Huawei, Ericsson*

**Abstract:**

The work plan is updated owing to the changes in group meeting arrangements by RAN plenary.

**Decision:** The document was **not treated**.

#### 11.8.2 Support of 16QAM in NB-IoT

##### 11.8.2.1 BS RF requirements

[**R4-2112280**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112280.zip) **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 further proposals on BS RF requirements for the support of 16-QAM in NB-IoT unicast in UL and DL according to the approved WF at TSG RAN4#98-bis-e and the agreements in RAN1.

**Decision:** The document was **not treated**.

[**R4-2114217**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114217.zip) **Further discussion on BS RF requirements for 16QAM NB-IoT Downlink**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114345**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114345.zip) **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:** The document was **not treated**.

##### 11.8.2.2 UE RF requirements

[**R4-2113620**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113620.zip) **MPR for NB-IoT 16-QAM with modified IBE**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2114002**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114002.zip) **CR on NB-IoT IBE mask to allow 16-QAM**

*Type: CR For: Agreement  
 36.101 v17.2.0 CR-5811 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2114216**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114216.zip) **Discussion on in-band emission requirements for 16QAM NB-IoT Uplink**

*Type: discussion For: Agreement  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114346**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114346.zip) **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:** The document was **not treated**.

#### 11.8.3 Support of power reduction for PRACH, PUCCH, and full-PRB PUSCH in MTC

##### 11.8.3.1 UE RF requirements

[**R4-2114344**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114344.zip) **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:** The document was **not treated**.

#### 11.8.4 RRM core requirements

##### 11.8.4.1 Neighbour cell measurement in RRC Connected state for NB-IoT

#### 11.8.5 Others

## 12 Liaison and output to other groups

**Email discussion summary of [100-e][149] NR\_reply\_LS\_UE\_RF, AI12 – Steven Chen**

[**R4-2114749**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114749.zip) **Email discussion summary for [100-e][149] NR\_reply\_LS\_UE\_RF**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**

**Conclusions after 1st round:**

**Conclusions after 2nd round:**

### 12.1 R17 related

[**R4-2111912**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111912.zip) **On beam correspondence requirements and SDT**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

RAN1 has enquired about the beam correspondence functionality in context of the SDT feature. We provide our views on UE RF requirements for this type of feature

**Decision:** The document was **not treated**.

[**R4-2112137**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112137.zip) **On beam correspondence with Small Data Transmission in Inactive State**

*Type: other For: Approval  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112740**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112740.zip) **Introducing Upper 700 MHz Block A as a new stand-alone band for NB-IoT for Industrial IoT applications**

*Type: discussion For: Discussion  
 Source: Puloli*

(Replaces [R4-2111722](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111722.zip))

**Abstract:**

Liaison Letter for introducing Upper 700 MHz Block A as a new stand-alone band for NB-IoT. Specifically, the uplink band for this new band is 1 MHz, 787-788 MHz; the downlink band is 1 MHz, 757-768 MHz; the duplex spacing is 30 MHz.

**Decision:** The document was **revised to** [**R4-2114500**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114500.zip).

[**R4-2112832**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112832.zip) **Draft Reply LS on Beam correspondence with Small Data Transmission in Inactive State**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson*

**Abstract:**

Draft LS to RAN1 on the introduction of additional beam-corresponding requirement covering SDT

**Decision:** The document was **not treated**.

[**R4-2113908**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113908.zip) **R17 Discussion on FR2 power control for NR-DC**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2113927**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113927.zip) **Discussion on reply LS on Beam correspondence with Small Data Transmission in Inactive State**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2113974**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113974.zip) **Discussion and draft Reply LS on Beam correspondence with Small Data Transmission in Inactive State**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2114057**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114057.zip) **UE beam correspondence requirements for RRC INACTIVE**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

[**R4-2114489**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114489.zip) **on beam correspondence requirement under inactive state for SDT and Reply LS**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 12.2 Others

[**R4-2111910**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111910.zip) **On FR2 requirement applicability over ETC**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

We discuss ETC applicability of core requirements to FR2 UE per TS38.101-2 V15.14 towards responding to the LS from RAN5 on the same subject

**Decision:** The document was **not treated**.

[**R4-2111911**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2111911.zip) **On FR2 UE relative power control tolerance requirements**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

We discuss FR2 UE relative power control tolerance requirements towards formulating a reply to RAN5 on this subject

**Decision:** The document was **not treated**.

[**R4-2112288**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112288.zip) **Draft LS to ETSI TFES on the New blocking requirement for Band 1 BSs for protection from RMR in 1900-1910**

*Type: LS out For: Approval  
 to ETSI MSG TFES, cc ETSI RT  
 Source: Ericsson*

**Abstract:**

The LS response gives feedback to the four issues brought up by ETS MSG TFES.

**Decision:** The document was **not treated**.

[**R4-2112915**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112915.zip) **Discussion on reply LS on Clarification on exception requirements for Intermodulation due to Dual uplink (IMD)**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2112983**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112983.zip) **Discussion and draft LS on applicability of RF requirements on extreme tempreture condition**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113039**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113039.zip) **AAS antenna model**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113302**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113302.zip) **Reply LS on Clarification on exception requirements for Intermodulation due to Dual uplink (IMD)**

*Type: LS out For: Approval  
 to RAN5  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

[**R4-2113402**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113402.zip) **Discussion and draft Reply LS on exception requirements for Intermodulation due to Dual uplink (IMD)**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113567**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113567.zip) **Discussion on requirements without MSD in 2UL IMD scenario**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on requirements without MSD in 2UL IMD scenario

**Decision:** The document was **not treated**.

[**R4-2113658**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113658.zip) **Extreme temp conditions FR2 LS response**

*Type: LS out For: Approval  
 to 3GPP WG5  
 Source: Ericsson*

**Abstract:**

Response Ls on RAN5 incoming LS on Extreme temp conditions

**Decision:** The document was **not treated**.

[**R4-2113659**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113659.zip) **Relative power control FR2 LS response**

*Type: LS out For: Approval  
 to 3GPP WG5  
 Source: Ericsson*

**Abstract:**

Response Ls on RAN5 incoming LS on relative power ctrl testability

**Decision:** The document was **not treated**.

[**R4-2113888**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113888.zip) **R15 Reply LS on FR2 Extreme temperature conditions clarifications**

*Type: LS out For: Approval  
 to RAN5  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2113889**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113889.zip) **R15 Discussion on RAN5 LS of MSD exception requirements**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2114225**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114225.zip) **Discussion on DRAFT LS to 3GPP RAN4 on new blocking requirement for Band 1 BSs for protection from RMR in 1900-1910**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discussion around the questions raised in the LS on protection of 1900-1910

**Decision:** The document was **not treated**.

[**R4-2114226**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114226.zip) **Draft LS out - New blocking requirement for Band 1 BSs for protection from RMR in 1900-1910**

*Type: LS out For: Approval  
 to ETSI MSG TFES, cc ETSI RT  
 Source: Huawei*

**Abstract:**

Draft LS response to the questions raised in the LS on protection of 1900-1910

**Decision:** The document was **not treated**.

[**R4-2114393**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114393.zip) **Discussion and draft LS response on FR2 Extreme temperature conditions clarifications**

*Type: discussion For: Endorsement  
 Source: Keysight Technologies*

**Decision:** The document was **not treated**.

[**R4-2114472**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114472.zip) **Inclusive Language Review Status and Consistency Check**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Ericsson was appointed by the RAN as coordinator across all groups for consistency checking of the inclusive language. The document is submitted also to RAN2 and RAN3 as guidance for all the spec rapporteurs.

**Decision:** The document was **not treated**.

## 13 Revision of the Work Plan

### 13.1 R17 new proposals

#### 13.1.1 Spectrum related

[**R4-2112051**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112051.zip) **Motivation on addition of FR1 4 Bands for 2+4 band EN-DC**

*Type: discussion For: Discussion  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

[**R4-2113441**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113441.zip) **New Basket WID on specifying test configurations with MSD = 0 for EN-DC band combinations which have REFSENS exceptions due to IMD interference**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**[R4-2113483](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113483.zip) Discussion on EN-DC 3DL/3UL LTE Inter-band 2CC with NR FR1 1CC**

*Type: discussion For: (not specified)  
 Source: SK Telecom, Telecom Italia*

**Abstract:**

This contribution discusses EN-DC 3DL/3UL requirements (LTE inter-band 2CC with NR FR1 1CC) to address UL performance enhancements.

**Decision:** The document was **not treated**.

**[R4-2114500](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114500.zip) Introducing Upper 700 MHz Block A as a new stand-alone band for NB-IoT for Industrial IoT applications**

*Type: discussion For: Discussion  
 Source: Puloli*

(Replaces [R4-2112740](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112740.zip))

**Abstract:**

Liaison Letter for introducing Upper 700 MHz Block A as a new stand-alone band for NB-IoT. Specifically, the uplink band for this new band is 1 MHz, 787-788 MHz; the downlink band is 1 MHz, 757-768 MHz; the duplex spacing is 30 MHz. This is a new WI propo

**Decision:** The document was **not treated**.

#### 13.1.2 Non-spectrum related

[**R4-2113449**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113449.zip) **New WID on further RRM enhancement in R18**

*Type: WID new For: Information  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2113452**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113452.zip) **New WID on NTN BS type 1-O**

*Type: WID new For: Information  
 Source: CATT*

**Decision:** The document was **not treated**.

[**R4-2113909**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113909.zip) **Motivation of 3Tx handheld UE**

*Type: discussion For: Information  
 Source: OPPO*

**Decision:** The document was **not treated**.

[**R4-2113910**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113910.zip) **New WID on 3Tx handheld UE for NR**

*Type: WID new For: Information  
 Source: OPPO*

**Decision:** The document was **not treated**.

### 13.2 Others

[**R4-2112133**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112133.zip) **Motivation paper for R18 RRM enhancement**

*Type: discussion For: Information  
 Source: Apple*

**Decision:** The document was **not treated**.

[**R4-2112143**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112143.zip) **Motivation on defining 8Rx performance requirements for NR**

*Type: discussion For: Information  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

[**R4-2112144**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112144.zip) **Motivation for supporting non-colocated scenarios for band 42 and n77/n78**

*Type: discussion For: Information  
 Source: SoftBank Corp.*

**Decision:** The document was **not treated**.

[**R4-2112844**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112844.zip) **Motivation for new WI on air-to-ground network for NR**

*Type: WID new For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112845**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112845.zip) **New WID on air-to-ground network for NR**

*Type: WID new For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112846**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112846.zip) **Motivation for new WID on Home Base Station for NR**

*Type: WID new For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2112847**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112847.zip) **New WID on Home Base Station for NR**

*Type: WID new For: Information  
 Source: CMCC*

**Decision:** The document was **not treated**.

[**R4-2113008**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113008.zip) **Motivation paper for R18 UE RF enhancement**

*Type: other For: Information  
 Source: vivo*

**Decision:** The document was **not treated**.

[**R4-2113806**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113806.zip) **Motivation paper for NR UE advanced receiver**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113807**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113807.zip) **draft WID for NR UE advanced receiver**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113851**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113851.zip) **[Draft] WID on FR2 RRM requirements evaluation**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2113918**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113918.zip) **TP to TR 38.921: MR/LA BS UEM requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

[**R4-2114318**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114318.zip) **Motivation for FR2 RRM requirement enhancement**

*Type: discussion For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

[**R4-2114488**](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114488.zip) **New WID of RF requirements further enhancement for NR frequency range 1 (FR1)**

*Type: WID new For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

## 14 Any other business

### 14.1 Celebration of RAN4#100 meeting

## 15 Close of the E-meeting

Report prepared by: MCC

## BACKUP

**R4-21AAAAA Email discussion summary for [100-e][10x] x**

*Type: other For: Information  
 Source: Moderator (xxx)*

**Abstract:**

This contribution provides the summary of email discussion and recommended summary.

**Discussion:**

**Decision: Return to.**