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

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for  
TSG RAN WG4  
meeting: 98-e**

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## 1 Opening of the E-meeting

The Chairman Steven Chen (Apple) opened the meeting on RAN4 reflector on 25/01/2021.

**Intellectual Property Rights 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 Chairman Steven Chen (Apple), RRM session was chaired by RAN4 Vice Chairman Andrey Chervyakov (Intel) and BS RF Test Demod session was chaired by RAN4 ViceChairman Haijie Qiu (Samsung). The sessions were further broken down into separate email threads to address specific technical topics lead by assigned discussion moderators. Webinar sessions were used to summarize progress, resolve controversial issues and decide way forward.

## 2 Approval of the agenda

## 3 Letters / reports from other groups / meetings

## 4 Rel-15 New radio access technology

### 4.3 UE EMC requirements maintenance [NR\_newRAT-Core]

**R4-2103742 Email discussion summary for [98e] [303] NR\_EMC**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2100890 CR to TS38.124 on radiated emissions**

*Type: CR For: Agreement  
 38.124 v15.4.0 CR-0029 Cat: F (Rel-15)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100891 CR to TS38.124 on radiated emissions**

*Type: CR For: Agreement  
 38.124 v16.1.0 CR-0030 Cat: A (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101872 on FR2 UE EMC requirement**

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

**Discussion:**

[report of discussion]

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

**R4-2102398 CR for TS 38.124: Correction of FR1 radiated spurious emissions (R15)**

*Type: CR For: Agreement  
 38.124 v15.4.0 CR-0031 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Discussion:**

[report of discussion]

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

**R4-2102399 CR for TS 38.124: Correction of FR1 radiated spurious emissions (R16)**

*Type: CR For: Agreement  
 38.124 v16.1.0 CR-0032 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon, Bureau Veritas*

**Discussion:**

[report of discussion]

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

**R4-2102576 CR to TS 38.124: correction of the lower frequency range of the RSE, Rel-15**

*Type: CR For: Agreement  
 38.124 v15.4.0 CR-0033 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

Lower spurious range limit for RSE is corrected to 30 MHz, to align with SM.329 and other UE EMC specifications.

**Discussion:**

[report of discussion]

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

**R4-2102577 CR to TS 38.124: correction of the lower frequency range of the RSE, Rel-16**

*Type: CR For: Agreement  
 38.124 v16.1.0 CR-0034 Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Lower spurious range limit for RSE is corrected to 30 MHz, to align with SM.329 and other UE EMC specifications.

**Discussion:**

[report of discussion]

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

### 4.4 BS RF requirements maintenance [NR\_newRAT-Core]

#### 4.4.1 General [NR\_newRAT-Core]

**R4-2103740 Email discussion summary for [98e][301] BSRF\_Maintenance**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2101016 Support of Japan regulation for 2.5GHz(BWA) in NR BS**

*Type: other For: Information  
 Source: SoftBank Corp., KDDI Corporation, NEC Corporation*

**Abstract:**

This paper provides background info for the proposals to support n41/n90 in BS for Japan.

**Discussion:**

[report of discussion]

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

**R4-2102844 CR to 37.105 on NR+UTRA support for AAS**

*Type: CR For: Agreement  
 37.105 v15.11.0 CR-0224 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Presently, it is not explicitly explained in TS 37.105 what RATs and RAT combinations that are not supported by AAS BS. This is clarified by the CR.

**Discussion:**

[report of discussion]

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

**R4-2102845 CR to 37.105 on NR+UTRA support for AAS**

*Type: CR For: Agreement  
 37.105 v16.6.0 CR-0225 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Presently, it is not explicitly explained in TS 37.105 what RATs and RAT combinations that are not supported by AAS BS. This is clarified by the CR.

**Discussion:**

[report of discussion]

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

**R4-2102846 CR to 37.105 on NR+UTRA support for AAS**

*Type: CR For: Agreement  
 37.105 v17.0.0 CR-0226 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Presently, it is not explicitly explained in TS 37.105 what RATs and RAT combinations that are not supported by AAS BS. This is clarified by the CR.

**Discussion:**

[report of discussion]

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

#### 4.4.2 TX/RX requirements maintenance (38.104) [NR\_newRAT-Core]

**R4-2101088 CR to TS 38.104: Additions of regional requirements for n41 in Japan, Rel-15**

*Type: CR For: Agreement  
 38.104 v15.12.0 CR-0271 Cat: F (Rel-15)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101089 CR to TS 38.104: Additions of regional requirements for n41 and n90 in Japan, Rel-16**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0272 Cat: F (Rel-16)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101090 CR to TS 38.104: Additions of regional requirements for n41 and n90 in Japan, Rel-17**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0273 Cat: A (Rel-17)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101091 CR to TS 38.141-1: Additions of regional requirements for n41 in Japan, Rel-15**

*Type: CR For: Agreement  
 38.141-1 v15.7.0 CR-0182 Cat: F (Rel-15)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.2 to treat together with the changes to core specification.

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

**R4-2101092 CR to TS 38.141-1: Additions of regional requirements for n41 and n90 in Japan, Rel-16**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0183 Cat: F (Rel-16)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.2 to treat together with the changes to core specification.

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

**R4-2101093 CR to TS 38.141-1: Additions of regional requirements for n41 and n90 in Japan, Rel-17**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0184 Cat: A (Rel-17)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.2 to treat together with the changes to core specification.

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

**R4-2101094 CR to TS 38.141-2: Additions of regional requirements for n41 in Japan, Rel-15**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0277 Cat: F (Rel-15)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.3 to treat together with the changes to core specification.

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

**R4-2101095 CR to TS 38.141-2: Additions of regional requirements for n41 and n90 in Japan, Rel-16**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0278 Cat: F (Rel-16)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.3 to treat together with the changes to core specification.

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

**R4-2101096 CR to TS 38.141-2: Additions of regional requirements for n41 and n90 in Japan, Rel-17**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0279 Cat: A (Rel-17)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.3 to treat together with the changes to core specification.

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

**R4-2101994 CR to TS 38.104: EESS protection requirement correction**

*Type: CR For: Agreement  
 38.104 v15.12.0 CR-0287 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101995 CR to TS 38.104: EESS protection requirement correction**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0288 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101996 CR to TS 38.104: EESS protection requirement correction**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0289 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101997 CR to TS 38.141-2: EESS protection requirement correction**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0296 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.3 to treat together with the changes to core specification.

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

**R4-2101998 CR to TS 38.141-2: EESS protection requirement correction**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0297 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.3 to treat together with the changes to core specification.

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

**R4-2101999 CR to TS 38.141-2: EESS protection requirement correction**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0298 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from AI 4.5.3 to treat together with the changes to core specification.

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

#### 4.4.3 MSR specifications maintenance [NR\_newRAT-Core/Perf]

**R4-2102441 CR to 37.141: Correction to ACLR limit in non-contiguous spectrum (Rel-15)**

*Type: CR For: Agreement  
 37.141 v15.13.0 CR-0961 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102442 CR to 37.141: Correction to ACLR limit in non-contiguous spectrum (Rel-16)**

*Type: CR For: Agreement  
 37.141 v16.8.0 CR-0962 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102443 CR to 37.141: Correction to ACLR limit in non-contiguous spectrum (Rel-17)**

*Type: CR For: Agreement  
 37.141 v17.0.0 CR-0963 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102841 CR to 37.145-1 on Removal of additional limit for Band 7**

*Type: CR For: Agreement  
 37.145-1 v15.8.0 CR-0248 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

In CRs to RAN4#97-E, additional limits for Bands 1 and 7 were removed, triggered by an LS from ETSI TFES. Limits for Band 7 however remain in TS 37.145-1. Those are removed with this CR to ensure that all specifications are aligned.

**Discussion:**

[report of discussion]

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

**R4-2102842 CR to 37.145-1 on Removal of additional limit for Band 7**

*Type: CR For: Agreement  
 37.145-1 v16.5.0 CR-0249 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

In CRs to RAN4#97-E, additional limits for Bands 1 and 7 were removed, triggered by an LS from ETSI TFES. Limits for Band 7 however remain in TS 37.145-1. Those are removed with this CR to ensure that all specifications are aligned.

**Discussion:**

[report of discussion]

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

**R4-2102843 CR to 37.145-1 on Removal of additional limit for Band 7**

*Type: CR For: Agreement  
 37.145-1 v17.0.0 CR-0250 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

In CRs to RAN4#97-E, additional limits for Bands 1 and 7 were removed, triggered by an LS from ETSI TFES. Limits for Band 7 however remain in TS 37.145-1. Those are removed with this CR to ensure that all specifications are aligned.

**Discussion:**

[report of discussion]

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

**R4-2102847 CR to 37.104 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.104 v15.12.0 CR-0934 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not complete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102848 CR to 37.104 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.104 v16.8.0 CR-0935 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102849 CR to 37.104 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.104 v17.0.0 CR-0936 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102850 CR to 37.141 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.141 v15.13.0 CR-0973 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102851 CR to 37.141 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.141 v16.8.0 CR-0974 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102852 CR to 37.141 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.141 v17.0.0 CR-0975 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102853 CR to 37.105 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.105 v15.11.0 CR-0227 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102854 CR to 37.105 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.105 v16.6.0 CR-0228 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102855 CR to 37.105 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.105 v17.0.0 CR-0229 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102856 CR to 37.145-1 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.145-1 v15.8.0 CR-0251 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102857 CR to 37.145-1 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.145-1 v16.5.0 CR-0252 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102858 CR to 37.145-1 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.145-1 v17.0.0 CR-0253 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102859 CR to 37.145-2 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.145-2 v15.9.0 CR-0288 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102860 CR to 37.145-2 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0289 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

**R4-2102861 CR to 37.145-2 on OBUE table headings and applicability**

*Type: CR For: Agreement  
 37.145-2 v17.0.0 CR-0290 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The OBUE applicability tables headings are ambiguous, and sometimes not cmoplete or fully aligned with the intended applicability. The CR corrects the headings to align.

**Discussion:**

[report of discussion]

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

### 4.5 BS conformance testing Maintenance [NR\_newRAT-Perf]

#### 4.5.1 General [NR\_newRAT-Perf]

**R4-2103741 Email discussion summary for [98e][302] NR\_Conformance\_Maintenance**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2101568 Further discussion on PN23 sequence generation for NR test models**

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

**Abstract:**

In this contribution we further continue discussion on PN23 sequence generator for NR test models that was initiated during RAN4#97 meeting.

**Discussion:**

[report of discussion]

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

**R4-2101569 CR to TS 38.141-1 clarification on PN23 sequence generation**

*Type: CR For: Agreement  
 38.141-1 v15.7.0 CR-0192 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101570 CR to TS 38.141-1 clarification on PN23 sequence generation**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0193 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101571 CR to TS 38.141-2 clarification on PN23 sequence generation**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0288 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101572 CR to TS 38.141-2 clarification on PN23 sequence generation**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0289 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101878 CR to TS 38.141-1 clarification on PN23 sequence generation**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0194 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101879 CR to TS 38.141-2 clarification on PN23 sequence generation**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0295 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

#### 4.5.2 Conducted conformance testing (38.141-1) [NR\_newRAT-Perf]

**R4-2102000 CR to TS 38.141-1: Receiver requirement corrections**

*Type: CR For: Agreement  
 38.141-1 v15.7.0 CR-0198 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102001 CR to TS 38.141-1: Receiver requirement corrections**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0199 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102002 CR to TS 38.141-1: Receiver requirement corrections**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0200 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

#### 4.5.3 Radiated conformance testing (38.141-2) [NR\_newRAT-Perf]

**R4-2100385 Further discussion on out-of-band CLTA definition**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100386 CR for TS 38.141-2: Correction on definition for the out-of-band CLTA(Rel-15)**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0263 Cat: F (Rel-15)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100387 CR for TS 38.141-2: Correction on definition for the out-of-band CLTA(Rel-16)**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0264 Cat: A (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100388 CR for TS 38.141-2: Correction on definition for the out-of-band CLTA(Rel-17)**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0265 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101730 TS 38.141-2: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0290 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Correction of the unwanted emission limit as it is not aligned with core specifications

**Discussion:**

[report of discussion]

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

**R4-2101731 TS 38.141-2: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0291 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction of the unwanted emission limit as it is not aligned with core specifications

**Discussion:**

[report of discussion]

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

**R4-2101732 TS 38.141-2: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0292 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction of the unwanted emission limit as it is not aligned with core specifications

**Discussion:**

[report of discussion]

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

**R4-2102003 CR to TS 38.141-2: Receiver requirement corrections**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0299 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102004 CR to TS 38.141-2: Receiver requirement corrections**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0300 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102005 CR to TS 38.141-2: Receiver requirement corrections**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0301 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102429 Further discussion on CLTA maximum height**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Further discussion on how to define a practical height restriction for the CLTA

**Discussion:**

[report of discussion]

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

**R4-2102430 Further discussion on co-location for adjacent bands**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Further discussion on the co-location scenarios for adjacent band systems based on the issues raised I the WF

**Discussion:**

[report of discussion]

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

**R4-2102434 CR to TS 38.141-2 - Update CLTA definition, Rel-15**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0306 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

CR to update the CLTA definition in the NR conformance specification

**Discussion:**

[report of discussion]

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

**R4-2102435 CR to TS 38.141-2 - Update CLTA definition, Rel-16**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0307 Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

CR to update the CLTA definition in the NR conformance specification

**Discussion:**

[report of discussion]

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

**R4-2102436 CR to TS 38.141-2 - Update CLTA definition, Rel-17**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0308 Cat: A (Rel-17)  
  
 Source: Huawei*

**Abstract:**

CR to update the CLTA definition in the NR conformance specification

**Discussion:**

[report of discussion]

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

**R4-2102897 On Two orthogonal cuts with pattern multiplication procedures and CLTA maximum height**

*Type: other For: Discussion  
 38.141-2 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution further discusses the open issues related to the two orthogonal cuts with pattern multiplication procedure and CLTA maximum height.

**Discussion:**

[report of discussion]

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

**R4-2102898 CR to TS 38.141-2: Updating the orthogonal cut procedure**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0310 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Numerical expressions for the two orthogonal cut procedure for TRP computation are included.

**Discussion:**

[report of discussion]

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

**R4-2102899 CR to TS 38.141-2: Updating the orthogonal cut procedure**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0311 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Numerical expressions for the two orthogonal cut procedure for TRP computation are included.

**Discussion:**

[report of discussion]

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

#### 4.5.4 eAAS specifications maintenance [NR\_newRAT-Core/Perf]

**R4-2100389 CR for TS 37.145-2: Correction on definition for the out-of-band CLTA(Rel-15)**

*Type: CR For: Agreement  
 37.145-2 v15.9.0 CR-0271 Cat: F (Rel-15)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100390 CR for TS 37.145-2: Correction on definition for the out-of-band CLTA(Rel-16)**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0272 Cat: A (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100391 CR for TS 37.145-2: Correction on definition for the out-of-band CLTA(Rel-17)**

*Type: CR For: Agreement  
 37.145-2 v17.0.0 CR-0273 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2102423 CR to TS 37.145-1, Corrections to conformance requirements, Rel-15**

*Type: CR For: Agreement  
 37.145-1 v15.8.0 CR-0243 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

Corrections to conformance specification based on errors identified while drafting the European harmonized standard

**Discussion:**

[report of discussion]

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

**R4-2102424 CR to TS 37.145-1, Corrections to conformance requirements, Rel-16**

*Type: CR For: Agreement  
 37.145-1 v16.5.0 CR-0244 Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Corrections to conformance specification based on errors identified while drafting the European harmonized standard

**Discussion:**

[report of discussion]

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

**R4-2102425 CR to TS 37.145-1, Corrections to conformance requirements, Rel-17**

*Type: CR For: Agreement  
 37.145-1 v17.0.0 CR-0245 Cat: A (Rel-17)  
  
 Source: Huawei*

**Abstract:**

Corrections to conformance specification based on errors identified while drafting the European harmonized standard

**Discussion:**

[report of discussion]

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

**R4-2102426 CR to TS 37.145-2: Corrections to conformance requirements, Rel-15**

*Type: CR For: Agreement  
 37.145-2 v15.9.0 CR-0280 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

Corrections to conformance specification based on errors identified while drafting the European harmonized standard

**Discussion:**

[report of discussion]

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

**R4-2102427 CR to TS 37.145-2: Corrections to conformance requirements, Rel-16**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0281 Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Corrections to conformance specification based on errors identified while drafting the European harmonized standard

**Discussion:**

[report of discussion]

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

**R4-2102428 CR to TS 37.145-2: Corrections to conformance requirements, Rel-17**

*Type: CR For: Agreement  
 37.145-2 v17.0.0 CR-0282 Cat: A (Rel-17)  
  
 Source: Huawei*

**Abstract:**

Corrections to conformance specification based on errors identified while drafting the European harmonized standard

**Discussion:**

[report of discussion]

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

**R4-2102431 CR to TS 37.145-2 - Update CLTA definition, Rel-15**

*Type: CR For: Agreement  
 37.145-2 v15.9.0 CR-0283 Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

CR to update the CLTA definition in the AAS conformance specification

**Discussion:**

[report of discussion]

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

**R4-2102432 CR to TS 37.145-2 - Update CLTA definition, Rel-16**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0284 Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

CR to update the CLTA definition in the AAS conformance specification

**Discussion:**

[report of discussion]

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

**R4-2102433 CR to TS 37.145-2 - Update CLTA definition, Rel-17**

*Type: CR For: Agreement  
 37.145-2 v17.0.0 CR-0285 Cat: A (Rel-17)  
  
 Source: Huawei*

**Abstract:**

CR to update the CLTA definition in the AAS conformance specification

**Discussion:**

[report of discussion]

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

**R4-2102895 CR to TS 37.145-2: Updating the orthogonal cut procedure**

*Type: CR For: Agreement  
 37.145-2 v15.9.0 CR-0291 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Numerical expressions for the two orthogonal cut procedure for TRP computation are included.

**Discussion:**

[report of discussion]

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

**R4-2102896 CR to TS 37.145-2: Updating the orthogonal cut procedure**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0292 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Numerical expressions for the two orthogonal cut procedure for TRP computation are included.

**Discussion:**

[report of discussion]

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

### 4.6 BS EMC requirements Maintenance [NR\_newRAT-Core]

#### 4.6.1 Core requirements [NR\_newRAT-Core]

#### 4.6.2 Performance requirements [NR\_newRAT-Perf]

**R4-2100354 CR to TS 38.113 on Performance criteria for transient phenomena, Release 15**

*Type: CR For: Agreement  
 38.113 v15.12.0 CR-0031 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

CR updating performance criteria for transient phenomena in TS 38.113 Rel 15

**Discussion:**

[report of discussion]

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

**R4-2100355 CR to TS 38.113 on Performance criteria for transient phenomena, Release 16**

*Type: CR For: Agreement  
 38.113 v16.2.0 CR-0032 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR mirroring update in performance criteria for transient phenomena in 38.113 Rel 16

**Discussion:**

[report of discussion]

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

**R4-2102127 CR to TS 38.113: Radiated emission test method**

*Type: CR For: Agreement  
 38.113 v15.12.0 CR-0033 Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102128 CR to TS 38.113: Radiated emission test method**

*Type: CR For: Agreement  
 38.113 v16.2.0 CR-0034 Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102178 CR to TS 38.113: Radiated emission test method**

*Type: CR For: Agreement  
 38.113 v15.12.0 CR-0035 Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102179 CR to TS 38.113: Radiated emission test method**

*Type: CR For: Agreement  
 38.113 v16.2.0 CR-0036 Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

### 4.9 Demodulation and CSI requirements maintenance (38.101-4/38.104)[NR\_newRAT-Perf]

#### 4.9.1 UE demodulation requirements[NR\_newRAT-Perf]

**R4-2103753 Email discussion summary for [98e][314] Demod\_R15\_Maintenance**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2101441 Correction of CQI test parameters and FRC for UE demodulation test**

*Type: CR For: Agreement  
 38.101-4 v15.8.0 CR-0157 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

This CR fix the errors in CQI test parameters and FRC in UE demodulation tests.

**Discussion:**

[report of discussion]

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

**R4-2101442 Correction of CQI test parameters and FRC for UE demodulation test**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0158 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR fix the errors in CQI test parameters and FRC in UE demodulation tests.

**Discussion:**

[report of discussion]

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

**R4-2102824 CR on corrections for LTE-NR Co-existence tests and OCNG pattern**

*Type: CR For: Agreement  
 38.101-4 v15.8.0 CR-0167 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102828 CR on corrections for LTE-NR Co-existence tests and OCNG pattern**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0168 Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

#### 4.9.2 CSI requirements [NR\_newRAT-Perf]

**R4-2101945 CR on FRC for NR RI requirements (Rel-15)**

*Type: CR For: Agreement  
 38.101-4 v15.8.0 CR-0161 Cat: F (Rel-15)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101946 CR on FRC for NR RI requirements (Rel-16)**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0162 Cat: A (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102870 CR to 38.101-4 on update to CSI reporting test parameters for Aperiodic reporting (R15)**

*Type: CR For: Agreement  
 38.101-4 v15.8.0 CR-0169 Cat: F (Rel-15)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2102871 CR to 38.101-4 on update to CSI reporting test parameters for Aperiodic reporting (R16)**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0170 Cat: A (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

#### 4.9.3 BS demodulation requirements [NR\_newRAT-Perf]

**R4-2100548 CR for 38.141-1: BS demodulation synchronization in test setup**

*Type: CR For: Agreement  
 38.141-1 v15.7.0 CR-0170 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Include the sentence “In tests performed with signal generators a synchronization signal may be provided from the BS to the signal generator, to enable correct timing of the wanted signal” from the radiated test specificaiton also in the conducted test sp

**Discussion:**

[report of discussion]

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

**R4-2100549 CR for 38.141-1: BS demodulation synchronization in test setup**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0171 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100550 CR for 38.141-1: BS demodulation synchronization in test setup**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0172 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100551 CR for 38.141-1: BS demodulation different channel bandwidths applicability rules**

*Type: CR For: Agreement  
 38.141-1 v15.7.0 CR-0173 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Modify the first sentence of the various “Applicability of requirements for different channel bandwidths” clauses, to clarify that test requirements apply for all supported CBWs.

**Discussion:**

[report of discussion]

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

**R4-2100552 CR for 38.141-1: BS demodulation different channel bandwidths applicability rules**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0174 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100553 CR for 38.141-1: BS demodulation different channel bandwidths applicability rules**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0175 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100554 CR for 38.141-2: BS demodulation different channel bandwidths applicability rules**

*Type: CR For: Agreement  
 38.141-2 v15.8.0 CR-0266 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Modify the first sentence of the various “Applicability of requirements for different channel bandwidths” clauses, to clarify that test requirements apply for all supported CBWs.

**Discussion:**

[report of discussion]

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

**R4-2100555 CR for 38.141-2: BS demodulation different channel bandwidths applicability rules**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0267 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100556 CR for 38.141-2: BS demodulation different channel bandwidths applicability rules**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0268 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100557 On BS demodulation different channel bandwidths applicability rules and synchronization in test setup**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution, we have explained and motivated our CRs introducing BS demodulation specification text changes pertaining to the applicability of requirements for different channel bandwidths and synchronization signals in conducted test setups.

**Discussion:**

[report of discussion]

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

### 4.11 Testability Maintenance (38.810) [FS\_NR\_test\_methods]

## 5 LTE maintenance (up to Rel15) [WI code or TEI]

### 5.1 BS RF requirements [WI code or TEI]

**R4-2101082 CR to TS 36.104: Additions of regional requirements for band 41 in Japan, Rel-15**

*Type: CR For: Agreement  
 36.104 v15.10.0 CR-4922 Cat: F (Rel-15)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101083 CR to TS 36.104: Additions of regional requirements for band 41 in Japan, Rel-16**

*Type: CR For: Agreement  
 36.104 v16.8.0 CR-4923 Cat: A (Rel-16)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101084 CR to TS 36.104: Additions of regional requirements for band 41 in Japan, Rel-17**

*Type: CR For: Agreement  
 36.104 v17.0.0 CR-4924 Cat: A (Rel-17)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101085 CR to TS 36.141: Additions of regional requirements for band 41 in Japan, Rel-15**

*Type: CR For: Agreement  
 36.141 v15.11.0 CR-1290 Cat: F (Rel-15)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101086 CR to TS 36.141: Additions of regional requirements for band 41 in Japan, Rel-16**

*Type: CR For: Agreement  
 36.141 v16.8.0 CR-1291 Cat: A (Rel-16)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

**R4-2101087 CR to TS 36.141: Additions of regional requirements for band 41 in Japan, Rel-17**

*Type: CR For: Agreement  
 36.141 v17.0.0 CR-1292 Cat: A (Rel-17)  
  
 Source: NEC, SoftBank, KDDI*

**Discussion:**

[report of discussion]

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

### 5.4 Demodulation and CSI requirements [WI code or TEI]

#### 5.4.1 UE demodulation and CSI requirements [WI code or TEI]

#### 5.4.2 BS demodulation requirements [WI code or TEI]

## 6 Rel-16 Work Items for LTE

### 6.4 R16 LTE maintenance [WI code]

#### 6.4.1 BS RF requirements [WI code]

#### 6.4.4 Demodulation and CSI requirements [WI code]

##### 6.4.4.1 UE demodulation and CSI requirements [WI code]

##### 6.4.4.2 BS demodulation requirements [WI code]

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

### 7.1 NR-based access to unlicensed spectrum [NR\_unlic]

#### 7.1.3 BS RF requirements maintenance [NR\_unlic-Core]

**R4-2103743 Email discussion summary for [98e][304] NR\_unlic\_BSRF\_Conformance**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2101972 CR to TS 36.104: corrections of NR-U BS RF requirements**

*Type: CR For: Agreement  
 36.104 v16.8.0 CR-4925 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101973 CR to TS 36.104: corrections of NR-U BS RF requirements**

*Type: CR For: Agreement  
 36.104 v17.0.0 CR-4926 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101974 CR to TS 37.104: corrections of NR-U BS RF requirements**

*Type: CR For: Agreement  
 37.104 v16.8.0 CR-0922 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101975 CR to TS 37.104: corrections of NR-U BS RF requirements**

*Type: CR For: Agreement  
 37.104 v17.0.0 CR-0923 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101976 CR to TS 37.105: corrections of NR-U BS RF requirements**

*Type: CR For: Agreement  
 37.105 v16.6.0 CR-0220 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101977 CR to TS 37.105: corrections of NR-U BS RF requirements**

*Type: CR For: Agreement  
 37.105 v17.0.0 CR-0221 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

##### 7.1.3.1 General [NR\_unlic-Core]

##### 7.1.3.2 Transmitter characteristics [NR\_unlic-Core]

**R4-2101978 CR to TS 38.104: corrections of NR-U BS Tx requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0283 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101979 CR to TS 38.104: corrections of NR-U BS Tx requirements**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0284 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102835 CR to TS 38.104 corrections to NR-U BS RF Tx requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0296 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102836 CR to TS 38.104 corrections to NR-U BS RF Tx requirements**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0297 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

##### 7.1.3.3 Receiver characteristics [NR\_unlic-Core]

**R4-2101980 CR to TS 38.104: corrections of NR-U BS Rx requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0285 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101981 CR to TS 38.104: corrections of NR-U BS Rx requirements**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0286 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102837 CR to TS 38.104 corrections to NR-U BS RF Rx requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0298 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102838 CR to TS 38.104 corrections to NR-U BS RF Rx requirements**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0299 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

#### 7.1.4 BS conformance testing [NR\_unlic-Perf]

**R4-2101982 CR to TS 38.141-1: introduction of NR-U BS**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0195 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101983 CR to TS 38.141-1: introduction of NR-U BS**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0196 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101984 CR to TS 36.141: introduction of NR-U BS**

*Type: CR For: Agreement  
 36.141 v16.8.0 CR-1293 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101985 CR to TS 36.141: introduction of NR-U BS**

*Type: CR For: Agreement  
 36.141 v17.0.0 CR-1294 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

##### 7.1.4.1 General [NR\_unlic-Perf]

**R4-2101566 On NR-U measurement uncertainties for BS conformance tests**

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

**Abstract:**

In this contribution we continue discussion on NR-U measurement uncertainties for BS conformance tests.

**Discussion:**

[report of discussion]

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

**R4-2102444 Draft CR to 37.141: Introduction of NR-U co-existence requirements**

*Type: draftCR For: Endorsement  
 37.141 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

##### 7.1.4.2 Transmitter characteristics [NR\_unlic-Perf]

**R4-2101567 Draft CR to TS 37.107 With NR-U intorduction for performance part**

*Type: draftCR For: Endorsement  
 37.107 v16.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This is draft CR to TS 37.107 with updates related to NR-U introduction for perfromance part.

**Discussion:**

[report of discussion]

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

**R4-2101733 TS 37.145-2: Tx spurious limits for co-existence and co-location with of NR-based access to unlicensed spectrum (NR-U)**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0276 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Introduction of tx spurious emission limits for co-existence and co-location with NR-U in bands n46 and n96

**Discussion:**

[report of discussion]

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

**R4-2101734 TS 37.145-2: Tx spurious limits for co-existence and co-location with of NR-based access to unlicensed spectrum (NR-U)**

*Type: CR For: Agreement  
 37.145-2 v17.0.0 CR-0277 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Introduction of tx spurious emission limits for co-existence and co-location with NR-U in bands n46 and n96

**Discussion:**

[report of discussion]

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

**R4-2101735 TS 38.141-2: Tx spurious limits for co-existence and co-location with of NR-based access to unlicensed spectrum (NR-U)**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0293 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Introduction of tx spurious emission limits for co-existence and co-location with NR-U in bands n46 and n96

**Discussion:**

[report of discussion]

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

**R4-2101736 TS 38.141-2: Tx spurious limits for co-existence and co-location with of NR-based access to unlicensed spectrum (NR-U)**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0294 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Introduction of tx spurious emission limits for co-existence and co-location with NR-U in bands n46 and n96

**Discussion:**

[report of discussion]

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

##### 7.1.4.3 Receiver characteristics [NR\_unlic-Perf]

**R4-2102144 TS 37.145-2: Rx blocking limits for co-existence and co-location with of NR-based access to unlicensed spectrum (NR-U)**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0278 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Introduction of rx blocking limits for co-existence and co-location with NR-U in bands n46 and n96

**Discussion:**

[report of discussion]

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

**R4-2102145 TS 37.145-2: RX blocking limits for co-existence and co-location with of NR-based access to unlicensed spectrum (NR-U)**

*Type: CR For: Agreement  
 37.145-2 v17.0.0 CR-0279 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Introduction of rx blocking limits for co-existence and co-location with NR-U in bands n46 and n96

**Discussion:**

[report of discussion]

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

#### 7.1.7 Demodulation and CSI requirements (38.101-4/38.104) [NR\_unlic-Perf]

##### 7.1.7.1 General [NR\_unlic-Perf]

**R4-2103755 Email discussion summary for [98e][316] NR\_unlic\_Demod\_UE**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2103756 Email discussion summary for [98e][317] NR\_unlic\_Demod\_BS**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2100995 discussion on general issues in NR-U UE and CSI performance requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

discussion on general issues in NR-U UE and CSI performance requirements

**Discussion:**

[report of discussion]

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

**R4-2101343 Discussion on LBT transmission burst model**

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

**Discussion:**

[report of discussion]

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

**R4-2102082 Discussion on performance requirements for NR-U**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

##### 7.1.7.2 UE demodulation requirements [NR\_unlic-Perf]

**R4-2100197 Discussion on demodulation requirements for NR-U**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100996 discussion on NR-U PDSCH demodulation**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

discussion on NR-U PDSCH demodulation

**Discussion:**

[report of discussion]

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

**R4-2101264 Discussion on NR-U PDSCH requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101344 Discussion on NRU UE performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102585 Discussion on NR-U PDSCH Demodulation Performance Tests and related Simulation Assumptions**

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

**Abstract:**

This paper will present our views on the points still under discussion related to NR-U PDSCH Demod Performance Tests and the proposed set of the simulation parameters. The simulation parameters are based on our company’s contribution to the previous meeti

**Discussion:**

[report of discussion]

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

##### 7.1.7.3 CSI requirements [NR\_unlic-Perf]

**R4-2100997 discussion on NR-U CQI report demodulation**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

discussion on NR-U CQI report demodulation

**Discussion:**

[report of discussion]

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

**R4-2101345 Discussion on NRU CSI requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102586 Discussion on NR-U CQI Performance Tests**

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

**Abstract:**

This paper will present our views on the points under discussion for NR-U CQI Performance Tests.

**Discussion:**

[report of discussion]

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

##### 7.1.7.4 BS demodulation requirements [NR\_unlic-Perf]

###### 7.1.7.4.1 General [NR\_unlic-Perf]

**R4-2100573 General issues on BS demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100998 discussion on general issues in NR-U BS demodulation requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

discussion on general issues in NR-U BS demodulation requirements

**Discussion:**

[report of discussion]

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

**R4-2102270 General issues on BS demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

###### 7.1.7.4.2 PUSCH requirements [NR\_unlic-Perf]

**R4-2100574 PUSCH Demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100575 NR-U PUSCH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100919 View on PUSCH demodulation requirement for NR-U**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100999 discussion on NR-U PUSCH demodulation assumptions**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

discussion on NR-U PUSCH demodulation assumptions

**Discussion:**

[report of discussion]

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

**R4-2101000 simulation results on NR-U PUSCH demodulation**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

simulation results on NR-U PUSCH demodulation

**Discussion:**

[report of discussion]

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

**R4-2101346 Simualtion results on NRU PUSCH performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101347 Discussion on NRU PUSCH performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102271 PUSCH Demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102272 NR-U PUSCH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

###### 7.1.7.4.3 PUCCH requirements [NR\_unlic-Perf]

**R4-2100576 PUCCH Demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100577 NR-U PUCCH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100920 View on PUCCH demodulation requirement for NR-U**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101001 discussion on NR-U PUCCH demodulation assumptions**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

discussion on NR-U PUCCH demodulation assumptions

**Discussion:**

[report of discussion]

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

**R4-2101002 simulation results on NR-U PUCCH demodulation**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

simulation results on NR-U PUCCH demodulation

**Discussion:**

[report of discussion]

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

**R4-2101348 Simualtion results on NRU PUCCH performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101349 Discussion on NRU PUCCH performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102273 PUCCH Demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102274 NR-U PUCCH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

###### 7.1.7.4.4 PRACH requirements [NR\_unlic-Perf]

**R4-2100578 PRACH Demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100579 NR-U PRACH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100921 View on PRACH demodulation requirement for NR-U**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101003 discussion on NR-U PRACH demodulation assumptions**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

discussion on NR-U PRACH demodulation assumptions

**Discussion:**

[report of discussion]

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

**R4-2101004 simulation results on NR-U PRACH demodulation**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

simulation results on NR-U PRACH demodulation

**Discussion:**

[report of discussion]

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

**R4-2101265 Discussion on NR-U PRACH requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101350 Simualtion results on NRU PRACH performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101351 Discussion on NRU PRACH performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102275 PRACH Demodulation performance requirements for operation in unlicensed bands**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102276 NR-U PRACH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

### 7.3 5G V2X with NR sidelink [5G\_V2X\_NRSL]

#### 7.3.6 Demodulation requirements (38.101-4) [5G\_V2X\_NRSL-Perf]

##### 7.3.6.1 General [5G\_V2X\_NRSL-Perf]

**R4-2103757 Email discussion summary for [98e][318] V2X\_Demod\_Part1**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2103758 Email discussion summary for [98e][319] V2X\_Demod\_Part2**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2101065 Discussion on NR V2X Demod test cases**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101942 Draft CR on General section of NR V2X requirements**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

##### 7.3.6.2 Single link test [5G\_V2X\_NRSL-Perf]

**R4-2100407 Discussion on single link demodulation test for NR V2X**

*Type: discussion For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100409 Simulation results of NR V2X single link demodulation test**

*Type: discussion For: Approval  
 Source: CATT, GOHIGH*

**Discussion:**

[report of discussion]

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

**R4-2100411 DraftCR for 38.101-4, Introduce PSBCH performance requirements for NR V2X**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: CATT, GOHIGH*

**Discussion:**

[report of discussion]

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

**R4-2100628 V2X single link demod discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

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

###### 7.3.6.2.1 PSSCH demodulation test [5G\_V2X\_NRSL-Perf]

**R4-2100656 Draft CR for PSSCH demodulation requirements for NR V2X**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

**R4-2100657 Discussion and simulation results for PSSCH single link test in NR V2X**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101068 Simulation results for NR V2X PSSCH test case**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101232 Discussion on NR V2X Single Link PSSCH requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101352 Discussion on PSSCH equirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101353 Simulation results on PSSCH requirements**

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

**Discussion:**

[report of discussion]

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

###### 7.3.6.2.2 PSCCH demodulation test [5G\_V2X\_NRSL-Perf]

**R4-2100658 Discussion and simulation results for PSCCH single link test in NR V2X**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101067 Simulation results for NR V2X PSCCH test case**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101233 Discussion on NR V2X Single Link PSCCH requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101234 Draft CR on NR V2X Single Link PSCCH requirements**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101354 Discussion and simulation results on PSCCH performance requirements**

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

**Discussion:**

[report of discussion]

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

###### 7.3.6.2.3 PSBCH demodulation test [5G\_V2X\_NRSL-Perf]

**R4-2100659 Simulation results for PSBCH single link test in NR V2X**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101066 Simulation results for NR V2X PSBCH**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101235 Simulation results for NR V2X Single Link PSBCH requirements**

*Type: other For: Information  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101355 Simulation results on PSBCH performance requirements**

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

**Discussion:**

[report of discussion]

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

###### 7.3.6.2.4 PSFCH demodulation test [5G\_V2X\_NRSL-Perf]

**R4-2100661 Simulation results for PSFCH single link test in NR V2X**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101069 draftCR on NR V2X PSFCH demodulation requirements**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101236 Simulation results for NR V2X Single Link PSFCH requirements**

*Type: other For: Information  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101356 Simulation results on PSFCH performance requirements**

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

**Discussion:**

[report of discussion]

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

##### 7.3.6.3 Multiple link test [5G\_V2X\_NRSL-Perf]

**R4-2100408 Discussion on multiple link demodulation test for NR V2X**

*Type: discussion For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100410 Simulation results of NR V2X multiple link demodulation test**

*Type: discussion For: Approval  
 Source: CATT, GOHIGH*

**Discussion:**

[report of discussion]

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

**R4-2100629 V2X multiple link demod discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

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

**R4-2100662 Discussion and simulation results for multiple link tests in NR V2X**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

###### 7.3.6.3.1 Power imbalance requirement [5G\_V2X\_NRSL-Perf]

**R4-2101237 Discussion on NR V2X Multiple Link Power Imbalance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101357 Draft CR: Introduction on Power imbalance requirements for NR V2X**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101358 Discussion on V2X Power imbalance requirements**

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

**Discussion:**

[report of discussion]

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

###### 7.3.6.3.2 HARQ soft buffer combing test [5G\_V2X\_NRSL-Perf]

**R4-2100630 V2X demod HARQ buffer CR**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101238 Discussion on NR V2X Multiple Link HARQ soft buffer combing requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101359 Discussion on V2X Soft-buffer test**

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

**Discussion:**

[report of discussion]

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

###### 7.3.6.3.3 PSFCH decoding capability test [5G\_V2X\_NRSL-Perf]

**R4-2101239 Discussion on NR V2X Multiple Link PSFCH decoding capability requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101360 Draft CR: Introduction on PSFCH decoding capability requirements for NR V2X**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101361 Discussion on V2X PSFCH decoding capability test**

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

**Discussion:**

[report of discussion]

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

###### 7.3.6.3.4 PSCCH/PSSCH decoding capability [5G\_V2X\_NRSL-Perf]

**R4-2101240 Discussion on NR V2X Multiple Link PSCCH/PSSCH decoding capability requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101362 Draft CR: Introduction on PSSCH/PSCCH decoding capability requirements for NR V2X**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101363 Discussion on V2X PSSCH/PSCCH decoding capability test**

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

**Discussion:**

[report of discussion]

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

###### 7.3.6.3.5 Others [5G\_V2X\_NRSL-Perf]

**R4-2101364 Discussion on V2X multilink SDR test**

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

**Discussion:**

[report of discussion]

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

**R4-2101943 Discussion on NR V2X Multiple Link SDR requirements**

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

**Discussion:**

[report of discussion]

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

### 7.4 Integrated Access and Backhaul for NR [NR\_IAB]

#### 7.4.1 General [NR\_IAB-Core]

**R4-2103744 Email discussion summary for [98e][305] NR\_IAB\_RF\_Maintenance**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

##### 7.4.1.1 System parameters maintenance [NR\_IAB-Core]

**R4-2100368 Draft CR for TS 38.174: Correction of clause 5**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: CATT*

**Discussion:**

[report of discussion]

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

##### 7.4.1.2 Others [NR\_IAB-Core]

**R4-2100910 Big CR for update on TR38.809**

*Type: CR For: Agreement  
 38.809 v16.1.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2102422 draft CR to TR 38.174 - correction to clause 6**

*Type: draftCR For: Endorsement  
 38.809 v16.1.0  
 Source: Huawei*

**Abstract:**

The word "hannon" seems to have replaced existing text in some locations making the text unreadable.

**Discussion:**

[report of discussion]

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

#### 7.4.2 RF requirements maintenance [NR\_IAB-Core]

##### 7.4.2.1 Transmitter characteristics [NR\_IAB-Core]

###### 7.4.2.1.1 Tx Power related requirements [NR\_IAB-Core]

**R4-2102335 IAB-MT TX dynamic range**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on IAB-MT TX dynamic requirement modification.

**Discussion:**

[report of discussion]

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

**R4-2102336 CR on Tx Power related requirements in TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

in this CR, The TX power dyanmic reference condition is updated

**Discussion:**

[report of discussion]

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

###### 7.4.2.1.2 Transmitted signal quality [NR\_IAB-Core]

**R4-2100365 Discussion on IAB-MT EVM measurement process**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100366 Draft CR for TS 38.174: IAB-MT EVM measurement**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100367 Draft CR for TR 38.809: IAB-MT EVM measurement**

*Type: draftCR For: Endorsement  
 38.809 v16.1.0  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100826 Discussion on EVM measurement methodology for IAB-MT**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2102012 IAB EVM procedure**

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

**Discussion:**

[report of discussion]

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

**R4-2102333 IAB-EVM procedure**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the EVM procedure which should be captured in the TS 38.174.

**Discussion:**

[report of discussion]

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

**R4-2102337 CR on Transmitted signal quality in TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

in this CR, Add EVM detailed procedure is in Annex D

**Discussion:**

[report of discussion]

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

###### 7.4.2.1.3 Unwanted emissions [NR\_IAB-Core]

###### 7.4.2.1.4 Others [NR\_IAB-Core]

**R4-2100369 Draft CR for TS 38.174: Correction of clause 6,7 and 9**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2102334 IAB-MT interference signal characteristic**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our proposal on IAB-MT characteristic of interference signal.

**Discussion:**

[report of discussion]

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

**R4-2102338 CR on Transmitter characteristics- Others TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

in this CR, Annex F for interference charateristic is added

**Discussion:**

[report of discussion]

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

##### 7.4.2.2 Receiver characteristics [NR\_IAB-Core]

###### 7.4.2.2.1 Sensitivity and dynamic range requirements [NR\_IAB-Core]

**R4-2102341 CR on Sensitivity and dynamic range requirements TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

in this CR, format is corrected and bracket is removed

**Discussion:**

[report of discussion]

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

###### 7.4.2.2.2 In-band selectivity and blocking requirements [NR\_IAB-Core]

**R4-2102339 CR on In-band selectivity and blocking requirements in TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

in this CR, more typo is corrected

**Discussion:**

[report of discussion]

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

###### 7.4.2.2.3 Others [NR\_IAB-Core]

**R4-2100909 Draft CR to align the general clause of radiated and conducted requirement**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2102011 DraftCR to TS 38.174: Receiver requirement corrections**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102340 CR on Rx Charateristic other related requirements**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

in this CR, OOB requriement is updated

**Discussion:**

[report of discussion]

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

#### 7.4.3 RF conformance testing [NR\_IAB-Perf]

##### 7.4.3.1 General and work plan [NR\_IAB-Perf]

**R4-2103745 Email discussion summary for [98e][306] NR\_IAB\_Conformance\_Part1**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2103746 Email discussion summary for [98e][307] NR\_IAB\_Conformance\_Part2**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2102321 On IAB test case dependency**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on the test burden reduction.

**Discussion:**

[report of discussion]

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

##### 7.4.3.2 Common test issues for conducted and radiated conformance testing [NR\_IAB-Perf]

###### 7.4.3.2.1 Test configurations [NR\_IAB-Perf]

**R4-2100906 View on IAB-MT RF Test configuration**

*Type: other For: Approval  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101565 Discussion on IAB RF conformance test configurations**

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

**Abstract:**

In this contribution, we continue discussions on details for IAB test configurations.

**Discussion:**

[report of discussion]

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

**R4-2101960 Discussion on IAB test configurations**

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

**Discussion:**

[report of discussion]

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

**R4-2102322 IAB Common test issue on test configuration-Conducted**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on test configuration for IAB RF conformance test work and also propose the TP for the test configuration

**Discussion:**

[report of discussion]

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

**R4-2102323 IAB Common test issue on test configuration-OTA**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on test configuration for IAB RF conformance test work and also propose the TP for the test configuration

**Discussion:**

[report of discussion]

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

###### 7.4.3.2.2 Test models [NR\_IAB-Perf]

**R4-2100371 Discussion on IAB-MT test model**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100907 Configuration on reference channel for IAB-MT**

*Type: other For: Approval  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101564 Discussion on IAB test models for conformance specifications**

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

**Abstract:**

In this contribution, we continue discussions on details for IAB test models.

**Discussion:**

[report of discussion]

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

**R4-2101961 Discussion on IAB test model**

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

**Discussion:**

[report of discussion]

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

**R4-2102324 IAB Common test issue on test model-Conducted**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our investigation on how the IAB-MT test model should be defined.

**Discussion:**

[report of discussion]

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

**R4-2102325 IAB Common test issue on test model-OTA**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our investigation on how the IAB-MT OTA test model should be defined.

**Discussion:**

[report of discussion]

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

###### 7.4.3.2.3 Others [NR\_IAB-Perf]

**R4-2100908 View on IAB manufacturer declaration**

*Type: other For: Approval  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101418 Testing of IAB-MT Requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101962 Discussion on IAB conformance testing**

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

**Discussion:**

[report of discussion]

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

**R4-2102016 Manufacturer declaration framework**

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

**Discussion:**

[report of discussion]

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

**R4-2102087 IAB-MT conformance Test setup and Test Equipment choice**

*Type: discussion For: Agreement  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

**R4-2102326 On IAB-MT synchronization test setup for conformance testing**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on this aspect for rel-16 IAB RF conformance test work.

**Discussion:**

[report of discussion]

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

**R4-2102421 IAB declarations format**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discussion on the BS declarations format and its suitability for the IAB nodes.

**Discussion:**

[report of discussion]

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

##### 7.4.3.3 Conducted conformance testing [NR\_IAB-Perf]

###### 7.4.3.3.1 Transmitter characteristics [NR\_IAB-Perf]

**R4-2100370 Discussion on IAB-MT specfic Tx requirements test**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2102013 Dynamic range test points**

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

**Discussion:**

[report of discussion]

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

**R4-2102327 IAB conducted transmitter test**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our investigation on how the IAB-MT conducted transmitter test could be defined.

**Discussion:**

[report of discussion]

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

###### 7.4.3.3.2 Receiver characteristics [NR\_IAB-Perf]

**R4-2102017 Receiver RF testing considerations**

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

**Discussion:**

[report of discussion]

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

**R4-2102328 TP example for Conducted receiver characteristic test**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our investigation on how the IAB-MT conducted receiver test could be defined.

**Discussion:**

[report of discussion]

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

###### 7.4.3.3.3 Other test issues [NR\_IAB-Perf]

**R4-2102329 General conducted test conditions and declarations**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on IAB generic conducted test conditions and declarations and the corresponding TP is proposed.

**Discussion:**

[report of discussion]

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

##### 7.4.3.4 Radiated conformance testing [NR\_IAB-Perf]

**R4-2102420 IAB conformance test burden**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Investigating the number or test conditions the OTA BS is tested under to see if this ban be reduced for an IAB node

**Discussion:**

[report of discussion]

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

###### 7.4.3.4.1 Transmitter characteristics [NR\_IAB-Perf]

**R4-2102015 Test setup considerations**

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

**Discussion:**

[report of discussion]

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

**R4-2102330 On IAB-MT frequency error tests**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our investigation on this frequency error test on IAB-MT specifically.

**Discussion:**

[report of discussion]

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

###### 7.4.3.4.2 Receiver characteristics [NR\_IAB-Perf]

**R4-2102331 TP example for OTA receiver characteristic test**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our investigation on how the IAB-MT OTA receiver test could be defined.

**Discussion:**

[report of discussion]

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

###### 7.4.3.4.3 Other test issues [NR\_IAB-Perf]

**R4-2102014 IAB RF conformance testing burden considerations**

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

**Discussion:**

[report of discussion]

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

**R4-2102332 General test conditions and declarations-OTA**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on IAB generic OTA test conditions and declarations and the corresponding TP is proposed.

**Discussion:**

[report of discussion]

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

#### 7.4.6 EMC core requirements maintenance [NR\_IAB-Core]

##### 7.4.6.1 General [NR\_IAB-Core]

**R4-2100356 Definition of Exclusion Bands for IAB EMC nodes**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Discussion paper on Exclusion bands for IAB EMC testing

**Discussion:**

[report of discussion]

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

**R4-2100357 CR to TS 38.175 on Exclusion Bands**

*Type: CR For: Agreement  
 38.175 v16.1.0 CR-0008 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR on Excclusion Bands for IAB EMC testing

**Discussion:**

[report of discussion]

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

##### 7.4.6.2 Emission requirements [NR\_IAB-Core]

##### 7.4.6.3 Immunity requirements [NR\_IAB-Core]

**R4-2100358 Discussion on Spatial Exclusion for IAB EMC RI test**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Discussion paper on Spatial Exclusion for IAB EMC Radiated Immunity Testing

**Discussion:**

[report of discussion]

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

**R4-2100359 CR to TS 38.175 on Spatial Exclusion for IAB EMC Radiated Immunity test**

*Type: CR For: Agreement  
 38.175 v16.1.0 CR-0009 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR on spatial exclusion for IAB EMC Radiated Immunity testing

**Discussion:**

[report of discussion]

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

#### 7.4.7 EMC performance requirements [NR\_IAB-Perf]

**R4-2100360 CR to TS 38.175 on IAB EMC test configuratins and performance requirements**

*Type: CR For: Agreement  
 38.175 v16.1.0 CR-0010 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR on IAB EMC Performance requirements

**Discussion:**

[report of discussion]

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

**R4-2102126 CR to TS 38.175: Performance criteria for IAB**

*Type: CR For: Agreement  
 38.175 v16.1.0 CR-0011 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102177 CR to TS 38.175: Performance criteria for IAB**

*Type: CR For: Agreement  
 38.175 v16.1.0 CR-0012 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102578 Spatial exclusion zone for IAB node**

*Type: discussion For: Agreement  
 Source: Huawei*

**Abstract:**

In this contribution we provide analysis of the challenges with the application of the spatial exclusion for the EMC RI testing of the IAB.

**Discussion:**

[report of discussion]

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

**R4-2102581 CR to TS 38.175: Spatial Exclusion for EMC RI test for IAB**

*Type: CR For: Agreement  
 38.175 v16.1.0 CR-0013 Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Based on the discussion paper on the analysis of spatial exclusion challenges, in this CR provides addittional text for the completion of the spatial exclusion feature in the IAB EMC specification.

**Discussion:**

[report of discussion]

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

#### 7.4.8 Demodulation and CSI requirements [NR\_IAB-Perf]

##### 7.4.8.1 General [NR\_IAB-Perf]

**R4-2103759 Email discussion summary for [98e][320] NR\_IAB\_Demod**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2102105 IAB demodulation general considerations**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Proposals for remaining general/test issues

**Discussion:**

[report of discussion]

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

##### 7.4.8.2 IAB-DU performance requirements [NR\_IAB-Perf]

**R4-2101262 Views on NR IAB-DU demodulation performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101293 Discussion on NR IAB DU demodulation performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102092 On NR IAB-DU demodulation requirements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102106 IAB demodulation DU considerations**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Proposals for remaining DU issues

**Discussion:**

[report of discussion]

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

##### 7.4.8.3 IAB-MT performance requirements [NR\_IAB-Perf]

**R4-2101263 Views on NR IAB-MT demodulation performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101294 Discussion on NR IAB MT demodulation performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102097 On NR IAB-MT testing setup and demodulation requirements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102107 IAB demodulation MT considerations**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Proposals for remaining MT issues

**Discussion:**

[report of discussion]

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

### 7.6 UE power saving in NR [NR\_UE\_pow\_sav]

#### 7.6.2 Demodulation and CSI requirements (38.101-4) [NR\_UE\_pow\_sav-Perf]

**R4-2103760 Email discussion summary for [98e][321] NR\_UE\_pow\_sav\_Demod**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2100397 Discussion on power saving demodulation test**

*Type: discussion For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100398 CR for TS38.101-4, test for FR2 PDCCH DCI format 2\_6 demodulation**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0129 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100541 Views on UE Power Saving Test Cases**

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

**Discussion:**

[report of discussion]

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

**R4-2100817 Simulation results summary for R16 power saving demodulation**

*Type: other For: Information  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100818 CR for TS38.101-4, test for FR1 TDD PDCCH DCI format 2\_6 demodulation**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0131 Cat: B (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100820 Demodulation on UE power saving**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101241 Discussion on PDCCH-WUS requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101295 Discussion and simulation results on the performance requirements for NR power saving**

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

**Discussion:**

[report of discussion]

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

**R4-2101387 CR on Fixed reference channel for power saving performance**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0154 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102085 Simulation results on PDCCH-WUS for power saving**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2102086 CR for TS38.101-4, test for FR1 FDD PDCCH DCI format 2\_6 demodulation**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

### 7.8 Physical layer enhancements for NR URLLC [NR\_L1enh\_URLLC-Core]

#### 7.8.1 Demodulation and CSI requirements (38.101-4/38.104) [NR\_L1enh\_URLLC-Perf]

##### 7.8.1.1 Performance requirements with ultra-low BLER [NR\_L1enh\_URLLC-Perf]

**R4-2103761 Email discussion summary for [98e][322] NR\_URLLC\_Demod\_Part1**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

###### 7.8.1.1.1 UE demodulation requirements [NR\_L1enh\_URLLC-Perf]

**R4-2101018 CR to 38.101-4 on FRC table update for URLLC ultra low BLER requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0137 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2102120 CR to TS 38.101-4: Performance requirements for URLLC PDSCH 0.001% BLER**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0164 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Finalize the requirements

**Discussion:**

[report of discussion]

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

###### 7.8.1.1.2 CSI requirements [NR\_L1enh\_URLLC-Perf]

**R4-2100169 Views on URLLC Ultra-low BLER CSI Reporting Test Cases**

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

**Discussion:**

[report of discussion]

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

**R4-2100198 CQI Reporting requirements for URLLC**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100199 CR to 38-101-4 on CQI reporting requirements for URLLC**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0126 Cat: B (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101242 Discussion on URLLC Ultra-low BLER CQI requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101327 Discussion on CSI requireements with ultra low-BLER**

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

**Discussion:**

[report of discussion]

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

**R4-2101331 Simulation for CQI reporting test**

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

**Discussion:**

[report of discussion]

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

**R4-2101338 CR to TS38.101-4 Applicability rules for URLLC CSI requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0152 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101944 CR on FRC for Ultra low BLER UE CQI requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0160 Cat: B (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102116 Discussions on URLLC UE CQI reporting requirements for CQI table 3**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Remaining open issues for CQI

**Discussion:**

[report of discussion]

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

**R4-2102118 Simulation results on URLLC UE CQI reporting requirements for CQI table 3**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Results for CQI

**Discussion:**

[report of discussion]

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

###### 7.8.1.1.3 BS demodulation requirements [NR\_L1enh\_URLLC-Perf]

**R4-2100563 CR for 38.104: Ultra high reliability BS demodulation requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0267 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

It was announced that one company has discovered that their simulation results need to be updated.

This CR will incorporate the resulting change of SNR requirements for ultra high reliability using a revision, once the results are available during the mee

**Discussion:**

[report of discussion]

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

**R4-2100564 CR for 38.104: Ultra high reliability BS demodulation requirements**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0268 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102122 CR to TS 38.141-1 Update of 0.001% BLER test requirements**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0201 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Captures updated requirement values

**Discussion:**

[report of discussion]

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

**R4-2102123 CR to TS 38.141-1 Update of 0.001% BLER test requirements**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0202 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Captures updated requirement values

**Discussion:**

[report of discussion]

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

**R4-2102124 CR to TS 38.141-2 Update of 0.001% BLER test requirements**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0302 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Captures updated requirement values

**Discussion:**

[report of discussion]

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

**R4-2102125 CR to TS 38.141-2 Update of 0.001% BLER test requirements**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0303 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Captures updated requirement values

**Discussion:**

[report of discussion]

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

##### 7.8.1.2 Performance requirements with higher BLER [NR\_L1enh\_URLLC-Perf]

**R4-2103762 Email discussion summary for [98e][323] NR\_URLLC\_Demod\_Part2**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

###### 7.8.1.2.1 UE demodulation requirements [NR\_L1enh\_URLLC-Perf]

**R4-2100170 Views on URLLC High BLER Demodulation Test Cases**

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

**Discussion:**

[report of discussion]

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

**R4-2100171 Correction CR on URLLC Higher BLER Performance Requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0125 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2100200 UE demodulation requirements with higher BLER**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100201 CR to 38.101-4 on requirements with slot aggreagation in FR2**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0127 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101243 Discussion on URLLC UE demodulation requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101244 Simulation results for URLLC UE demodulation requirements**

*Type: other For: Information  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101245 CR on FRC for URLLC UE Higher BLER requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0139 Cat: B (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101328 Discussion on URLLC UE demodulation requirements with higher BLER and low latency**

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

**Discussion:**

[report of discussion]

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

**R4-2101330 Simulation results on UE PDSCH demodulation reuqirements with higher BLER and low latency**

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

**Discussion:**

[report of discussion]

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

**R4-2101333 Summary of simulation results for UE URLLC demodulation performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101337 CR to TS 38.101-4 Correction of UE performance requirements for FR1 URLLC PDSCH repetitions over multiple slots.**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0151 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102084 Simulation results for URLLC pre-emption**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2102117 Simulation results on UE URLLC demodulation performance requirements with higher BLER**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Results for high BLER

**Discussion:**

[report of discussion]

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

**R4-2102119 Discussion on UE URLLC demodulation performance requirements with higher BLER**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Remaining open issues for high BLER demod

**Discussion:**

[report of discussion]

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

**R4-2102121 CR to TS 38.101-4: Performance requirements for URLLC High BLER feature tests**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0165 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Needed to finalize pre-emption requirements

**Discussion:**

[report of discussion]

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

**R4-2102822 CR on FR1 PDSCH Mapping Type B and Processing Capability 2 Requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0166 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

###### 7.8.1.2.2 BS demodulation requirements [NR\_L1enh\_URLLC-Perf]

**R4-2100560 On NR Rel-16 BS demodulation performance requirements with higher BLER and simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we have provided our views on PUSCH repetition type B in the context of the NR\_L1enh\_URLLC WI. We have furthermore provided the last remaining simulation results.

**Discussion:**

[report of discussion]

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

**R4-2100561 CR for 38.104: Low latency FR1 BS demodulation requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0265 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Removal of remaining square brackets, following the stable nature of the simulation summary from last meeting [R4-2015629].

**Discussion:**

[report of discussion]

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

**R4-2100562 CR for 38.104: Low latency FR1 BS demodulation requirements**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0266 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100796 On BS demodulation requirements for Rel-16 PUSCH repetition type B**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2100923 Discussion and simulation results for BS URLLC requirement**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100927 CR on PUSCH repetition type A and PUSCH mapping type B radiated performance requirement for TS 38.104**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0269 Cat: B (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100928 CR on PUSCH repetition type A and PUSCH mapping type B radiated performance requirement for TS 38.104**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0270 Cat: A (Rel-17)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100929 CR on FRC for URLLC BS radiated performance requirement for TS 38.141-2**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0269 Cat: B (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100930 CR on FRC for URLLC BS radiated performance requirement for TS 38.141-2**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0270 Cat: A (Rel-17)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101044 CR for TS 38.141-2 Updates of performance requirements of PUSCH repetition type A and PUSCH mapping type B for URLLC**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0275 Cat: B (Rel-16)  
  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

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

**R4-2101045 CR for TS 38.141-2 Updates of performance requirements of PUSCH repetition type A and PUSCH mapping type B for URLLC**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0276 Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

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

**R4-2101246 Discussion on URLLC BS demodulation requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101247 Simulation results for URLLC BS demodulation requirements**

*Type: other For: Information  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101248 CR on FR2 requirements for PUSCH mapping Type B with low number of symbols (Rel-16)**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0280 Cat: F (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101249 CR on FR2 requirements for PUSCH mapping Type B with low number of symbols (Rel-17)**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0281 Cat: A (Rel-17)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101329 Discussion on URLLC BS demodulation requirements with higher BLER and low latency**

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

**Discussion:**

[report of discussion]

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

**R4-2101332 Simulation results on FR2 PUSCH demodulation reuqirements with higher BLER and low latency**

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

**Discussion:**

[report of discussion]

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

**R4-2101334 Summary of simulation results for BS URLLC demodulation performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101335 CR to TS38.141-2 Correction of BS conformance testing for FR2 URLLC PUSCH repetition Type A (Rel-16)**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0286 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101336 CR to TS38.141-2 Correction of BS conformance testing for FR2 URLLC PUSCH repetition Type A (Rel-17)**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0287 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101339 CR to TS38.141-1 Correction of BS conformance testing for URLLC demodulation requirements with higher BLER (Rel-16)**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0189 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101340 CR to TS38.141-1 Correction of BS conformance testing for URLLC demodulation requirements with higher BLER (Rel-17)**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0190 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101341 CR to TS38.104 Correction of BS performance requirements for URLLC FR1 PUSCH repetition Type A (Rel-16)**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0278 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101342 CR to TS38.104 Correction of BS performance requirements for URLLC FR1 PUSCH repetition Type A (Rel-17)**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0279 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102115 Simulation results for BS URLLC high BLER**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Results for additional bandwidths added last meeting

**Discussion:**

[report of discussion]

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

**R4-2102285 Correction on requirements for PUSCH repetition Type A**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0304 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102286 Correction on requirements for PUSCH repetition Type A**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0305 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

### 7.9 Enhancements on MIMO for NR [NR\_eMIMO]

#### 7.9.4 Demodulation and CSI requirements (38.101-4) [NR\_eMIMO-Perf]

##### 7.9.4.1 General [NR\_eMIMO-Perf]

**R4-2103763 Email discussion summary for [98e][324] NR\_eMIMO\_Demod**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2100210 CR to 38.101-4 for eMIMO demod requirements - General and Applicability rule**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0128 Cat: B (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100903 Simulation results summary for eMIMO performance requirements**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101448 CR: FRC for eMIMO sDCI/mDCI-based PDSCH transmission**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0159 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei, HiSilicon, Intel, Samsung*

**Abstract:**

This CR provides the FRCs used for sDCI/mDCI-based PDSCH transmission.

**Discussion:**

[report of discussion]

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

**R4-2101449 Simulation assumption for PDSCH requirement with mDCI/sDCI-based transmission schemes**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution provides the updated simulation assumption for PDSCH requirement with mDCI/sDCI-based transmission schemes.

**Discussion:**

[report of discussion]

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

##### 7.9.4.2 Demodulation requirements [NR\_eMIMO-Perf]

###### 7.9.4.2.1 Single-DCI based SDM scheme [NR\_eMIMO-Perf]

**R4-2100898 Simulation results for Single-DCI based SDM scheme**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101256 Simulation results for single-DCI based multi-TRP SDM Tx scheme**

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

**Discussion:**

[report of discussion]

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

**R4-2101313 Simulaiton results of PDSCH requirements for Single-DCI SDM scheme**

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

**Discussion:**

[report of discussion]

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

**R4-2101315 CR for 38.101-4 Introduction of PDSCH requirement with Single-DCI based SDM scheme**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0147 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101450 Simulation results of sDCI-based SDM transmission**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution shows our PDSCH simulation results with sDCI-based SDM transmission.

**Discussion:**

[report of discussion]

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

###### 7.9.4.2.2 Multi-DCI based transmission scheme [NR\_eMIMO-Perf]

**R4-2100899 Simulation results for multi-DCI based transmsision scheme**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101257 Simulation results for multi-DCI based multi-TRP Tx scheme**

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

**Discussion:**

[report of discussion]

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

**R4-2101312 Simulation results of PDSCH requirements for Multi-DCI transmission scheme**

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

**Discussion:**

[report of discussion]

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

**R4-2101316 CR for 38.101-4 Introduction of PDSCH requirement with Multi-DCI based multi-TRP transmission schemes**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0148 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101451 Simulation results of mDCI-based transmission**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution shows our PDSCH simulation results with mDCI-based transmission.

**Discussion:**

[report of discussion]

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

**R4-2102083 Simulation results on PDSCH performance requirements for multi-DCI based multi-TRP transmission**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

###### 7.9.4.2.3 Single-DCI based transmission schemes (URLLC) [NR\_eMIMO-Perf]

**R4-2100211 Simulation results for multi-DCI based transmission scheme**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100900 Simulation results for URLLC schemes**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101258 Simulation results for single-DCI based multi-TRP Repetition Tx schemes**

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

**Discussion:**

[report of discussion]

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

**R4-2101259 CR to TS 38.101-4: Performance requirements single-DCI based multi-TRP Repetition Tx schemes**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0143 Cat: B (Rel-16)  
  
 Source: Intel Corporation, Samsung, Ericsson, Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101314 Simulation results of PDSCH requirements for Single-DCI URLLC schemes**

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

**Discussion:**

[report of discussion]

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

**R4-2101452 Simulation results of sDCI-based FDM/TDM transmission**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution shows our PDSCH simulation results with sDCI-based FDMSchemeA and inter-slot TDM.

**Discussion:**

[report of discussion]

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

##### 7.9.4.3 CSI requirements [NR\_eMIMO-Perf]

**R4-2100212 PMI reporting requirements with eType II codebook**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100585 On PMI reporting requirements for enhanced Type II codebooks**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100622 Views on CSI Reporting test cases for eMIMO**

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

**Discussion:**

[report of discussion]

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

**R4-2100896 Introduction of PMI test cases with Rel-16 eType II codebook**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0135 Cat: B (Rel-16)  
  
 Source: Samsung*

**Abstract:**

Introduction of eType II codebook PMI test cases

**Discussion:**

[report of discussion]

**Decision:** The document was **revised to R4-2102938**.

**R4-2102938 Introduction of PMI test cases with Rel-16 eType II codebook**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0135 Cat: B (Rel-16)  
  
 Source: Samsung*

**Abstract:**

Introduction of eType II codebook PMI test cases

**Discussion:**

[report of discussion]

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

**R4-2100901 Discussion and simulation results for Rel-16 eType II codebook test cases**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101310 Discussion on the test metric of eType II codebook based PMI reporting test**

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

**Discussion:**

[report of discussion]

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

**R4-2101311 Simulation results for eType II codebook based PMI reporting test**

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

**Discussion:**

[report of discussion]

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

**R4-2101323 CR for 38.101-4 Applicablity of PMI reporting test of eType II codebook**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0150 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101443 Simulation results for Rel-16 eType II PMI reporting test**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution shows our simulation results of Rel-16 eType-II PMI reporting.

**Discussion:**

[report of discussion]

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

**R4-2101444 Evaluation of Rel-16 eType-II PMI reporting test**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the requirements of Rel-16 eType-II PMI reporting.

**Discussion:**

[report of discussion]

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

**R4-2102282 On PMI reporting requirements for enhanced Type II codebooks**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102938 Introduction of PMI test cases with Rel-16 eType II codebook**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0135 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces R4-2100896)

**Discussion:**

[report of discussion]

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

### 7.10 Add support of NR DL 256QAM for FR2 [NR\_DL256QAM\_FR2]

#### 7.10.1 Demodulation and CSI requirements (38.101-4) [NR\_DL256QAM\_FR2-Perf]

##### 7.10.1.1 UE Demodulation requirements [NR\_DL256QAM\_FR2-Perf]

**R4-2103764 Email discussion summary for [98e][325] NR\_DL256QAM\_FR2\_Demod**

*Type: other For: Information  
 Source: Moderator (China Telecomm)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2100880 Offline e-mail discussion summary on the TDLD30 channel simplification**

*Type: discussion For: Information  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2100881 Simulation results for PDSCH normal demodulation for FR2 DL 256QAM**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2101250 Discussion on FR2 DL 256QAM UE demodulation requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101251 Summary of simulation results for FR2 DL 256QAM demodulation requirements**

*Type: other For: Information  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101252 CR on simplified TDL-D channel model for FR2 DL 256QAM demodulation requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0140 Cat: B (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101296 Simulation results on PDSCH requirements for NR DL 256QAM for FR2**

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

**Discussion:**

[report of discussion]

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

**R4-2101297 CR on applicability and FRC for PDSCH normal demodulation for DL 256QAM for FR2**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0144 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101369 Views on 256QAM UE requirements for FR2**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

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

**R4-2101419 Simulation results of PDSCH with 256QAM in FR2**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution shows our PDSCH simulation results with 256QAM in FR2.

**Discussion:**

[report of discussion]

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

**R4-2101420 Open issues on FR2 256QAM PDSCH demodulation requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discussion the open issues on PDSCH demodulation requirements with 256QAM in FR2.

**Discussion:**

[report of discussion]

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

**R4-2102373 Simulation results for FR2 256QAM PDSCH Test Cases**

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

**Discussion:**

[report of discussion]

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

##### 7.10.1.2 CSI requirements [NR\_DL256QAM\_FR2-Perf]

**R4-2100882 On CQI reporting requirements for FR2 DL 256QAM**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2100883 Summary of CQI reporting simulation results for FR2 DL 256QAM (TDD)**

*Type: discussion For: Information  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2100884 CR on adding applicability, requirements and measurement channel for FR2 DL 256QAM CQI reporting test under fading condition**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0133 Cat: B (Rel-16)  
  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2101114 Simulation For CQI reporting requirements for FR2 DL 256QAM**

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

**Discussion:**

[report of discussion]

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

**R4-2101116 CR on demodulation performance requirements for DL 256QAM for FR2**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0138 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101298 Simulation results on CQI requirements for NR DL 256QAM for FR2**

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

**Discussion:**

[report of discussion]

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

**R4-2101421 Simulation results of CQI table 2 reporting in FR2**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution provides our simulation results of CQI reporting with CQI table 2.

**Discussion:**

[report of discussion]

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

**R4-2101422 Open issues on CQI table 2 reporting test in FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the open issues on CQI table 2 reporting test in FR2.

**Discussion:**

[report of discussion]

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

**R4-2101848 Simulation results on CQI requirements for NR DL 256QAM for FR2**

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

**Discussion:**

[report of discussion]

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

**R4-2102406 Views on FR2 256QAM CQI Reporting Test Cases**

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

**Discussion:**

[report of discussion]

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

##### 7.10.1.3 SDR requirements [NR\_DL256QAM\_FR2-Perf]

**R4-2100885 Updating on CR for SDR requirements for FR2 DL 256QAM capable band**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2101253 CR on applicability rules and FRC for FR2 DL 256QAM CQI requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0141 Cat: B (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101299 CR on SDR requirements for DL 256QAM for FR2**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0145 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

### 7.15 NR support for high speed train scenario [NR\_HST]

#### 7.15.2 Demodulation and CSI requirements Maintenance (38.101-4 / 38.104) [NR\_HST-Perf]

##### 7.15.2.1 UE demodulation and CSI requirements [NR\_HST-Perf]

**R4-2103754 Email discussion summary for [98e][315] Demod\_R16\_Maintenance**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2100168 CR on FDD HST Single-Tap and Multipath Fading Requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0124 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2100848 CR on HST-SFN requirements for TDD**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0132 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100854 CR on release independent for Rel.16 NR HST UE demodulation requirements**

*Type: CR For: Agreement  
 38.307 v15.7.0 CR-0046 Cat: F (Rel-15)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100855 CR on release independent for Rel.16 NR HST UE demodulation requirements**

*Type: CR For: Agreement  
 38.307 v16.5.0 CR-0047 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100856 CR on release independent for Rel.16 NR HST UE demodulation requirements**

*Type: CR For: Agreement  
 38.307 v17.0.0 CR-0048 Cat: A (Rel-17)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101300 CR on update TRS and CSI-RS transmission for HST DPS requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0146 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Ericsson, Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101301 Summary of ideal and impairment results for NR HST demodulation requirements**

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

**Abstract:**

Include updated simulation results

**Discussion:**

[report of discussion]

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

**R4-2101438 Simulation results for HST-DPS**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution updates our PDSCH simulation results for HST-DPS scenario.

**Discussion:**

[report of discussion]

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

##### 7.15.2.2 BS demodulation requirements [NR\_HST-Perf]

**R4-2100380 Summary of ideal and impairment results for NR HST demodulation requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100381 CR for TS 38.141-2: Introduction of NR PUSCH UL TA performance requirement**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0261 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100382 CR for TS 38.141-2: Introduction of NR PUSCH UL TA performance requirement(Rel-17)**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0262 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100558 CR for 38.104: HST PUSCH demodulation requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0263 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Update of square bracketed SNR values according to the simulation summary of last meeting [R4-2017557].

Removal of all remaining square brackets.

**Discussion:**

[report of discussion]

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

**R4-2100559 CR for 38.104: HST PUSCH demodulation requirements**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0264 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100922 Updated simulation results for NR HST PUSCH**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100925 CR on UL timing adjustment conducted performance requirement for TS 38.141-1**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0178 Cat: F (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100926 CR on UL timing adjustment conducted performance requirement for TS 38.141-1**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0179 Cat: A (Rel-17)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100993 remove SNR brackets for HST PUSCH in TS38.141-2**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0273 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets for HST PUSCH

**Discussion:**

[report of discussion]

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

**R4-2100994 remove SNR brackets for HST PUSCH in TS38.141-2**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0274 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets for HST PUSCH

**Discussion:**

[report of discussion]

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

**R4-2101042 CR for TS 38.141-1 Updates of NR PUSCH performance requirements for HST**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0180 Cat: F (Rel-16)  
  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

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

**R4-2101043 CR for TS 38.141-1 Updates of NR PUSCH performance requirements for HST**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0181 Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

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

**R4-2101319 CR for 38.104 Cleanup of performance requirements for NR HST PRACH under fading channel (Rel-16)**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0276 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101320 CR for 38.141-1 Cleanup of conformance testing for NR HST PRACH under fading channel (Rel-16)**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0187 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101321 CR for 38.141-2 Cleanup of conformance testing for NR HST PRACH under fading channel (Rel-16)**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0284 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101324 CR for 38.104 Cleanup of performance requirements for NR HST PRACH under fading channel (Rel-17)**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0277 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101325 CR for 38.141-1 Cleanup of conformance testing for NR HST PRACH under fading channel (Rel-17)**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0188 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101326 CR for 38.141-2 Cleanup of conformance testing for NR HST PRACH under fading channel (Rel-17)**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0285 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101849 CR to TS 38.104 Update on UL timing adjustment performance requirements**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0280 Cat: F (Rel-16)  
  
 Source: ZTE Wistron Telecom AB*

**Discussion:**

[report of discussion]

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

### 7.16 NR performance requirement enhancement [NR\_perf\_enh-Perf]

#### 7.16.1 UE demodulation and CSI requirements (38.101-4) [NR\_perf\_enh-Perf]

**R4-2103765 Email discussion summary for [98e][326] NR\_perf\_enh\_Demod**

*Type: other For: Information  
 Source: Moderator (China Telecomm)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

##### 7.16.1.1 NR CA PDSCH requirements [NR\_perf\_enh-Perf]

**R4-2100786 Remaining issues on PDSCH CA test applicability**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2100816 CR for NR PDSCH FR1 CA 2Rx performance requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0130 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100822 Test applicability rule for NR CA PDSCH normal demodulation**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101254 Discussion on NR CA UE demodulation requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101255 CR on applicability rules for Normal NR CA requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0142 Cat: B (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101365 Discussion on NR normal CA performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101434 Draft CR: Section numbering for PDSCH CA demodulation requirements**

*Type: draftCR For: Endorsement  
 38.101-4 v16.3.0  
 Source: Ericsson*

**Abstract:**

This draft CR proposes to change the section numbering to align with RAN5 spec.

**Discussion:**

[report of discussion]

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

**R4-2102818 Specification Structure for CA Test Cases**

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

**Discussion:**

[report of discussion]

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

##### 7.16.1.2 PMI reporting requirements with larger number of Tx ports [NR\_perf\_enh-Perf]

**R4-2100216 PMI reporting requirements with larger number of TX ports**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100897 Introduction of PMI test cases with Rel-15 Type II codebook**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0136 Cat: B (Rel-16)  
  
 Source: Samsung*

**Abstract:**

Introduction of Type II codebook PMI test cases

**Discussion:**

[report of discussion]

**Decision:** The document was **revised to R4-2102939**.

**R4-2102939 Introduction of PMI test cases with Rel-15 Type II codebook**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0136 Cat: B (Rel-16)  
  
 Source: Samsung*

**Abstract:**

Introduction of Type II codebook PMI test cases

**Discussion:**

[report of discussion]

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

**R4-2100902 Discussion and simulation results for Rel-15 Type II codebook test cases**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101317 Simulation results for Rel-15 Type II codebook PMI reporting test**

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

**Discussion:**

[report of discussion]

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

**R4-2101318 Discussion on the test point for Rel-15 Type II codebook PMI reporting test with larger Tx ports**

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

**Discussion:**

[report of discussion]

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

**R4-2101322 CR for 38.101-4 Applicablity of PMI reporting test with Tx ports larger than 8 and up to 32**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0149 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101435 Simulation results for Rel-15 Type II PMI reporting test**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution shows our simulation results of Rel-15 Type-II PMI reporting.

**Discussion:**

[report of discussion]

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

**R4-2101436 Evaluation of Rel-15 Type-II PMI reporting test**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the Rel-15 Type-II PMI reporting requirements.

**Discussion:**

[report of discussion]

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

**R4-2101437 Correction of title on 16Tx port subband PMI reporting**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0156 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR corrects the wrong sub-clause titles for 16Tx port subband PMI reporting.

**Discussion:**

[report of discussion]

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

**R4-2102821 Views on Type II PMI Reporting Tests**

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

**Discussion:**

[report of discussion]

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

**R4-2102939 Introduction of PMI test cases with Rel-15 Type II codebook**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0136 rev 1 Cat: B (Rel-16)  
  
 Source: Samsung*

(Replaces R4-2100897)

**Discussion:**

[report of discussion]

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

##### 7.16.1.3 FR1 CA and EN-DC power imbalance requirements [NR\_perf\_enh-Perf]

**R4-2101366 Discussion on test applicability rule for UE power imbalance for EN-DC**

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

**Discussion:**

[report of discussion]

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

**R4-2101367 CR: Updates to power imbalance for CA**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0153 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.16.1.4 NR CA CQI reporting requirements [NR\_perf\_enh-Perf]

**R4-2100886 CR: Adding applicability and requirements for FR1 and FR2 CA CQI reporting test**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0134 Cat: B (Rel-16)  
  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

##### 7.16.1.5 Release independent [NR\_perf\_enh-Perf]

**R4-2100787 Draft CR for TS 38.307 on UE demodulation performance requirements (Rel-15)**

*Type: CR For: Agreement  
 38.307 v15.7.0 CR-0043 Cat: B (Rel-15)  
  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2100788 Draft CR for TS 38.307 on UE demodulation performance requirements (Rel-16)**

*Type: CR For: Agreement  
 38.307 v16.5.0 CR-0044 Cat: B (Rel-16)  
  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

**R4-2100789 Draft CR for TS 38.307 on UE demodulation performance requirements (Rel-17)**

*Type: CR For: Agreement  
 38.307 v17.0.0 CR-0045 Cat: A (Rel-17)  
  
 Source: China Telecom*

**Discussion:**

[report of discussion]

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

#### 7.16.2 BS demodulation requirements (38.104) [NR\_perf\_enh-Perf]

### 7.17 Over the air (OTA) base station (BS) testing TR Maintenance [OTA\_BS\_testing-Perf]

**R4-2103747 Email discussion summary for [98e][308] OTA\_BS\_Testing\_Maintenance**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2102492 Relative calibration approach using reference receiver**

*Type: discussion For: Discussion  
 37.941 v..  
 Source: ROHDE & SCHWARZ*

**Abstract:**

This contribution presents the overall description of a relative calibration approach, eventually applicable to all systems, and serves as technical justification for the corresponding CR to implement this option in TR 37.941.

**Discussion:**

[report of discussion]

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

**R4-2102493 draft CR to TR 37.941: Relative calibration approach**

*Type: draftCR For: Endorsement  
 37.941 v15.2.0  
 Source: ROHDE & SCHWARZ*

**Discussion:**

[report of discussion]

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

**R4-2102901 CR to TR 37.941: Updating the orthogonal cut procedure**

*Type: CR For: Agreement  
 37.941 v15.2.0 CR-0025 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Numerical expressions for TRP computation are included.

**Discussion:**

[report of discussion]

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

**R4-2102902 CR to TR 37.941: Updating the orthogonal cut procedure**

*Type: CR For: Agreement  
 37.941 v16.2.0 CR-0026 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Numerical expressions for TRP computation are included.

**Discussion:**

[report of discussion]

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

### 7.18 2-step RACH for NR [NR\_2step\_RACH-Perf]

#### 7.18.2 BS Demodulation requirements maintenance (38.104) [NR\_2step\_RACH-Perf]

**R4-2100582 Corrections on 2-step RACH demodulation requirements**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0176 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

**Discussion:**

[report of discussion]

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

**R4-2100583 Corrections on 2-step RACH demodulation requirements**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0177 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

**Discussion:**

[report of discussion]

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

**R4-2100584 2-step RACH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2100924 Simulation results for BS 2-step RACH requirement**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100931 CR on MsgA PUSCH radiated performance requirement for TS 38.141-2**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0271 Cat: F (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100932 CR on MsgA PUSCH radiated performance requirement for TS 38.141-2**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0272 Cat: A (Rel-17)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101302 CR on correction 2-step RACH performance requirements for FR2 in 38.104 (Rel-16)**

*Type: CR For: Agreement  
 38.104 v16.6.0 CR-0274 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101303 CR on correction 2-step RACH performance requirements for FR2 in 38.104 (Rel-17)**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0275 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101304 CR on update applicability rule for 2-step RACH in 38.141-1 (Rel-16)**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0185 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101305 CR on update applicability rule for 2-step RACH in 38.141-1 (Rel-17)**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0186 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101306 CR on update applicability rule for 2-step RACH in 38.141-2 (Rel-16)**

*Type: CR For: Agreement  
 38.141-2 v16.6.0 CR-0282 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101307 CR on update applicability rule for 2-step RACH in 38.141-2 (Rel-17)**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0283 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102279 Corrections on 2-step RACH demodulation requirements**

*Type: CR For: Agreement  
 38.141-1 v16.6.0 CR-0203 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

**Discussion:**

[report of discussion]

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

**R4-2102280 Corrections on 2-step RACH demodulation requirements**

*Type: CR For: Agreement  
 38.141-1 v17.0.0 CR-0204 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

**Discussion:**

[report of discussion]

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

**R4-2102281 2-step RACH simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

### 7.19 R16 NR maintenance [WI code or TEI16]

#### 7.19.4 BS RF [WI code or TEI16]

**R4-2101180 CR to TR 38.820: Correction of antenna model in subclause 7.2.4**

*Type: CR For: Agreement  
 38.820 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The correction in this CR align the parameter defintion with gives equations

**Discussion:**

[report of discussion]

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

**R4-2102563 CR to TS 37.105: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-16**

*Type: CR For: Agreement  
 37.105 v16.6.0 CR-0222 Cat: F (Rel-16)  
  
 Source: Huawei, China Unicom*

**Abstract:**

Referring to the Rel-16 WI on MSR\_GSM\_UTRA\_LTE\_NR, the MSR BS specification was extended with additional CS configuration (e.g. UTRA+EUTRA+NR).

WID in RP-190642 captured that only MSR BS specifications are to be affected, i.e. TS 37.104, TS 37.141. Relat

**Discussion:**

[report of discussion]

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

**R4-2102564 CR to TS 37.105: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-17**

*Type: CR For: Agreement  
 37.105 v17.0.0 CR-0223 Cat: A (Rel-17)  
  
 Source: Huawei, China Unicom*

**Abstract:**

Referring to the Rel-16 WI on MSR\_GSM\_UTRA\_LTE\_NR, the MSR BS specification was extended with additional CS configuration (e.g. UTRA+EUTRA+NR).

WID in RP-190642 captured that only MSR BS specifications are to be affected, i.e. TS 37.104, TS 37.141. Relat

**Discussion:**

[report of discussion]

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

**R4-2102565 CR to TS 37.145-1: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-16**

*Type: CR For: Agreement  
 37.145-1 v16.5.0 CR-0246 Cat: F (Rel-16)  
  
 Source: Huawei, China Unicom*

**Abstract:**

Referring to the Rel-16 WI on MSR\_GSM\_UTRA\_LTE\_NR, the MSR BS specification was extended with additional CS configuration (e.g. UTRA+EUTRA+NR).

WID in RP-190642 captured that only MSR BS specifications are to be affected, i.e. TS 37.104, TS 37.141. Realt

**Discussion:**

[report of discussion]

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

**R4-2102566 CR to TS 37.145-1: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-17**

*Type: CR For: Agreement  
 37.145-1 v17.0.0 CR-0247 Cat: A (Rel-17)  
  
 Source: Huawei, China Unicom*

**Abstract:**

Referring to the Rel-16 WI on MSR\_GSM\_UTRA\_LTE\_NR, the MSR BS specification was extended with additional CS configuration (e.g. UTRA+EUTRA+NR).

WID in RP-190642 captured that only MSR BS specifications are to be affected, i.e. TS 37.104, TS 37.141. Realt

**Discussion:**

[report of discussion]

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

**R4-2102567 CR to TS 37.145-2: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-16**

*Type: CR For: Agreement  
 37.145-2 v16.6.0 CR-0286 Cat: F (Rel-16)  
  
 Source: Huawei, China Unicom*

**Abstract:**

Referring to the Rel-16 WI on MSR\_GSM\_UTRA\_LTE\_NR, the MSR BS specification was extended with additional CS configuration (e.g. UTRA+EUTRA+NR).

WID in RP-190642 captured that only MSR BS specifications are to be affected, i.e. TS 37.104, TS 37.141. Realt

**Discussion:**

[report of discussion]

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

**R4-2102568 CR to TS 37.145-2: Introduction of new BS capability set for NR+EUTRA+UTRA, Rel-17**

*Type: CR For: Agreement  
 37.145-2 v17.0.0 CR-0287 Cat: A (Rel-17)  
  
 Source: Huawei, China Unicom*

**Abstract:**

Referring to the Rel-16 WI on MSR\_GSM\_UTRA\_LTE\_NR, the MSR BS specification was extended with additional CS configuration (e.g. UTRA+EUTRA+NR).

WID in RP-190642 captured that only MSR BS specifications are to be affected, i.e. TS 37.104, TS 37.141. Realt

**Discussion:**

[report of discussion]

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

#### 7.19.6 Demodulation and CSI [WI code or TEI16]

#### 7.19.7 NR MIMO OTA test methods (38.827) [FS\_NR\_MIMO\_OTA\_test]

**R4-2101821 Uplink Power Control for NR MIMO OTA test**

*Type: CR For: Agreement  
 38.827 v16.1.0 CR-0008 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101993 Minimum number of slots for FR1 MIMO OTA testing**

*Type: other For: Endorsement  
 Source: CAICT,vivo,OPPO,Huawei,HiSilicon,xiaomi,Samsung*

**Discussion:**

[report of discussion]

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

**R4-2102081 CR to TR38.827 Number of Slots for FR1 MIMO OTA test**

*Type: CR For: Agreement  
 38.827 v16.1.0 CR-0009 Cat: F (Rel-16)  
  
 Source: CAICT,vivo,OPPO,Huawei,HiSilicon,xiaomi,Samsung*

**Discussion:**

[report of discussion]

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

**R4-2102614 On Remaining Channel Model Topics**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

**R4-2102615 CR on Channel Model Topics**

*Type: CR For: Agreement  
 38.827 v16.1.0 CR-0010 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

**R4-2102817 CR to TR 38.827 on channel model rotations**

*Type: CR For: Agreement  
 38.827 v16.1.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102819 CR to 38.827on base station beamforming configuration**

*Type: CR For: Agreement  
 38.827 v16.1.0 CR-0012 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

## 8 Rel-16 UE feature list

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

### 9.24 Introduction of FR2 FWA UE with maximum TRP of 23dBm for band n257 and n258 [NR\_FR2\_FWA\_Bn257\_Bn258]

#### 9.24.4 Others [NR\_FR2\_FWA\_Bn257\_Bn258-Core/Perf]

**R4-2101423 Introduction of Noc for PC5 in n257/n258**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0155 Cat: B (Rel-17)  
  
 Source: Ericsson, SoftBank*

**Abstract:**

This CR introduces Noc for PC5 in n257/n258.

**Discussion:**

[report of discussion]

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

### 9.25 Introduction of NR 47 GHz band [NR\_47GHz\_Band]

#### 9.25.2 BS RF (38.104) [NR\_47GHz\_Band-Core]

**R4-2103748 Email discussion summary for [98e][309] NR\_47GHz\_Band\_BSRF**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2102159 CR to TS 38.104 - n262 introduction**

*Type: CR For: Agreement  
 38.104 v17.0.0 CR-0290 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR specifies band n262 (47GHz band) in TS 38.104

**Discussion:**

[report of discussion]

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

#### 9.25.4 Others [NR\_47GHz\_Band-Core/Perf]

##### 9.25.4.1 BS conformance (38.141) [NR\_47GHz\_Band-Perf]

**R4-2102049 47GHz band TT for NR BS RF requirement**

*Type: discussion For: Agreement  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

**R4-2102160 47GHz band - Measurement uncertainties for BS requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses the measurement uncertainties for BS requirements at 47GHz

**Discussion:**

[report of discussion]

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

**R4-2102445 TP to TR 38.847: BS conformance aspects**

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

**Discussion:**

[report of discussion]

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

**R4-2102446 CR to 38.141-2: Introduction of n262**

*Type: CR For: Agreement  
 38.141-2 v17.0.0 CR-0309 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

##### 9.25.4.2 UE Demod (38.101-4) [NR\_47GHz\_Band-Perf]

**R4-2103766 Email discussion summary for [98e][327] NR\_R17\_SpectrumWI\_Demod**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2102100 CR to TS 38.101-4: n262 demodulation requirements**

*Type: CR For: Agreement  
 38.101-4 v16.3.0 CR-0163 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

CR to introduce demodulation requirements for n262

**Discussion:**

[report of discussion]

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

**R4-2102101 pCR to 38.847: UE performance requirements**

*Type: pCR For: Approval  
 38.847 v0.0.2  
 Source: Ericsson*

**Abstract:**

Captures information and rationale behind decision for demodulation requirements

**Discussion:**

[report of discussion]

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

**R4-2102933 Discussion on NR UE demodulation performance for n262**

*Type: discussion For: (not specified)  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Discussion:**

[report of discussion]

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

##### 9.25.4.3 BS Demod (38.104) [NR\_47GHz\_Band-Perf]

**R4-2100565 On 47GHZ OTA link budget in Demodulation requirement testing**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we have expressed our views on the 47GHZ band OTA link budget for demodulation requirement testing.

**Discussion:**

[report of discussion]

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

**R4-2102102 pCR to TR 38.847: BS demodulation requirements**

*Type: pCR For: Approval  
 38.847 v0.0.2  
 Source: Ericsson*

**Abstract:**

Captures information and rationale behind decision for demodulation requirements

**Discussion:**

[report of discussion]

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

**R4-2102935 Discussion on NR BS demodulation performance for n262**

*Type: discussion For: Discussion  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Discussion:**

[report of discussion]

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

## 10 Reply to ITU-R LS (RP-200042)

## 11 Rel-17 non-spectrum related work items for NR

### 11.1 Multiple Input Multiple Output (MIMO) Over-the-Air (OTA) requirements for NR UEs [NR\_MIMO\_OTA]

#### 11.1.1 General [NR\_MIMO\_OTA]

**R4-2103768 Email discussion summary for [98e][329] NR\_MIMO\_OTA**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2101822 TS 38.151 v0.2.0 NR MIMO OTA requirements**

*Type: draft TS For: Agreement  
 38.151 v0.2.0  
 Source: vivo*

**Abstract:**

New version TS

**Discussion:**

[report of discussion]

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

**R4-2101825 TP to TS 38.151 v0.1.0 on Performance metrics for NR MIMO OTA requirements**

*Type: pCR For: Approval  
 38.151 v0.1.0  
 Source: vivo, CAICT*

**Discussion:**

[report of discussion]

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

#### 11.1.2 Performance Requirements [NR\_MIMO\_OTA-Core]

##### 11.1.2.1 Performance Requirements for FR1 [NR\_MIMO\_OTA-Core]

**R4-2101827 Discussions on Channel models mapping for FR1 MIMO OTA requirement**

*Type: discussion For: Approval  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101941 FR1 MIMO OTA measurement results and channel model mapping**

*Type: discussion For: Approval  
 Source: CAICT,Keysight,ETS-Lindgren*

**Discussion:**

[report of discussion]

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

##### 11.1.2.2 Performance Requirements for FR2 [NR\_MIMO\_OTA-Core]

**R4-2101758 Consideration on how to treat the missing orientations for FR2**

*Type: discussion For: Approval  
 Source: OPPO*

**Discussion:**

[report of discussion]

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

**R4-2101824 TP to TS 38.151 v0.1.0 on FR2 test system for requirements**

*Type: pCR For: Approval  
 38.151 v0.1.0  
 Source: vivo, CAICT*

**Discussion:**

[report of discussion]

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

**R4-2102497 Discussion on FR2 MIMO OTA performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102719 Simulation assumption summary for NR FR2 MIMO OTA**

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

**Discussion:**

[report of discussion]

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

#### 11.1.3 Testing methodologies [NR\_MIMO\_OTA-Core]

##### 11.1.3.1 Testing parameters for Performance [NR\_MIMO\_OTA-Core]

**R4-2100892 Discussion on FR1 test parameters and Figure of Merit**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101826 Discussion on testing parameters for NR MIMO OTA requirement**

*Type: discussion For: Approval  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102729 Consideration on FR2 MIMO OTA UE requirement**

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

**Discussion:**

[report of discussion]

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

##### 11.1.3.2 Optimization of test methodologies [NR\_MIMO\_OTA-Core]

**R4-2101757 Consideration on 3D-MPAC probe locations configuration for FR2 MIMO OTA**

*Type: discussion For: Approval  
 Source: OPPO*

**Discussion:**

[report of discussion]

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

**R4-2102400 Analysis on number of test points vs uncertainty of FR2 MIMO OTA requirements**

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

**Discussion:**

[report of discussion]

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

##### 11.1.3.3 Channel model validation [NR\_MIMO\_OTA-Core]

**R4-2100845 Channel Model Validation Bounds**

*Type: other For: Approval  
 Source: Spirent Communications*

**Abstract:**

Proposal 1: FR1 PDP Power = [±0.8 dB]. PDP excess delay = [±11ns].

Proposal 2 and 4: Bounds for FR1 and FR2 Autocorrelation

0.5?, [NonPolarized value +/- 0.1 capped at 1]

1 ?, [NonPolarized value +/- 0.2]

1.5?, [NonPolarized value +/- 0.25]

2?, [NonPolar

**Discussion:**

[report of discussion]

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

**R4-2101823 TP to TS 38.151 v0.1.0 on FR2 Channel model and RMC**

*Type: pCR For: Approval  
 38.151 v0.1.0  
 Source: vivo, CAICT*

**Discussion:**

[report of discussion]

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

**R4-2102613 gNB Beams Usage Criteria for NR FR1 MIMO OTA Channel Model Validation**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd, China Mobile*

**Discussion:**

[report of discussion]

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

### 11.6 Enhancement for NR high speed train scenario in FR1 [NR\_HST\_FR1\_enh-Core]

#### 11.6.3 UE demodulation requirements (38.101-4) [NR\_HST\_FR1\_enh-Perf]

##### 11.6.3.1 General [NR\_HST\_FR1\_enh-Perf]

**R4-2103767 Email discussion summary for [98e][328] NR\_HST\_FR1\_Demod**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

##### 11.6.3.2 PDSCH requirements for CA scenarios [NR\_HST\_FR1\_enh-Perf]

**R4-2100858 General discussion on NR HST UE demodulation for FR1 CA scenario**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101260 Views on NR HST CA PDSCH performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101308 Discussion on PDSCH CA scenarios for NR UE HST FR1 performance requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101370 Views on HST CA tests for FR1**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

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

**R4-2101439 PDSCH demodulation requirements for CA with HST-SFN scenario**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution shows our view on the PDSCH demodulation requirements for CA with HST-SFN scenario.

**Discussion:**

[report of discussion]

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

##### 11.6.3.3 Enhanced transmission schemes [NR\_HST\_FR1\_enh-Perf]

**R4-2100859 Discussion on NR HST UE demodulation for enhanced transmission scheme**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101261 Views on NR HST PDSCH performance requirements for multi-DCI based Tx scheme**

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

**Discussion:**

[report of discussion]

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

**R4-2101309 Discussion on enhanced transmission schemes for NR HST demodulation**

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

**Discussion:**

[report of discussion]

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

**R4-2101440 PDSCH demodulation requirements with enhanced transmission schemes in HST scenario**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution shows our view on the PDSCH demodulation requirements with enhanced transmission schemes in HST scenario.

**Discussion:**

[report of discussion]

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

### 11.8 Solutions for NR to support non-terrestrial networks (NTN) [NR\_NTN\_solutions]

#### 11.8.1 General and work plan [NR\_NTN\_solutions-Core]

**R4-2103749 Email discussion summary for [98e][310] NTN\_Solutions\_Part1**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2103750 Email discussion summary for [98e][311] NTN\_Solutions\_Part2**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2101813 Discussion on exemplary bands for NTN topic**

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

**Discussion:**

[report of discussion]

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

**R4-2102175 NTN Reference model**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution is proposing specification structure for the introduction of NTN

**Discussion:**

[report of discussion]

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

#### 11.8.2 Use cases, deployment scenarios, and regulatory information [NR\_NTN\_solutions-Core]

**R4-2100399 Discussion on frequency band and scenarios for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100824 Examplary bands for NTN**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100905 Views on NTN exemplary bands**

*Type: discussion For: Agreement  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101814 General discussion on Network structure on NTN topics**

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

**Discussion:**

[report of discussion]

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

**R4-2101858 Criteria for Choosing FR1 Exemplary Band**

*Type: discussion For: Decision  
 Source: THALES*

**Abstract:**

In order to select a proper exemplary MSS FR1 band (in terms in bandwidth, throughput and regulatory requirements) this document proposes the criteria to be taken into account for exemplary FR1 band selection, to be considered by RAN4 work.

**Discussion:**

[report of discussion]

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

**R4-2101933 NTN - On use cases and deployment scenarios**

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

**Discussion:**

[report of discussion]

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

**R4-2102173 NTN - Regulatory and spectrum aspects**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Based on Radio Regulations analysis, this contribution is discussing NTN spectrum aspects

**Discussion:**

[report of discussion]

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

**R4-2102374 Discussion on satellite bands outside FR1/FR2 range for NR based satellite networks**

*Type: discussion For: Discussion  
 Source: HUGHES Network Systems, Thales, Inmarsat, Intelsat, Fraunhofer, ESA*

**Discussion:**

[report of discussion]

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

**R4-2100111 NTN architecture aspects**

*Type: discussion For: Decision  
 Source: THALES*

**Discussion:**

[report of discussion]

Session Chair: Move to this AI from 11.8.3

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

#### 11.8.3 Coexistence aspects [NR\_NTN\_solutions-Core]

**R4-2101859 NTN FR1 Coexistence Scenarios and Related Core Requirements**

*Type: discussion For: Decision  
 Source: THALES*

**Abstract:**

This contribution refers to MSS FR1 band possible interference situations to be considered by RAN4 coexistence studies in adjacent bands.

**Discussion:**

[report of discussion]

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

**R4-2101880 Simulations for NTN FR1 Coexistence Cases**

*Type: discussion For: Decision  
 Source: THALES*

**Abstract:**

This contribution proposes to down-scope coexistence scenarios to be considered for simulations, e.g. consider only NTN extreme cases.

**Discussion:**

[report of discussion]

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

##### 11.8.3.1 Simulation assumptions [NR\_NTN\_solutions-Core]

**R4-2100486 Simulaiton assumptions for NTN co-existence**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100904 Simulation assumption for FR1 coexistence study**

*Type: discussion For: Agreement  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101105 Coexistence study on NR to support non-terrestrial networks**

*Type: other For: Approval  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

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

**R4-2101812 General discussion on NTN simulation assumptions**

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

**Discussion:**

[report of discussion]

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

**R4-2101934 NTN - HAPS simulation assumptions for co-existence study**

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

**Discussion:**

[report of discussion]

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

**R4-2101964 Discussion on simulation assumptions for NTN coexistence study**

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

**Discussion:**

[report of discussion]

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

**R4-2102174 NTN Simulations assumptions discussion**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution provides an overview of the needed simulations for NTN and initiates related discussions

**Discussion:**

[report of discussion]

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

**R4-2102508 Simulation assumptions for NR NTN co-existence study**

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

**Discussion:**

[report of discussion]

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

##### 11.8.3.2 UE requirements aspects [NR\_NTN\_solutions-Core]

##### 11.8.3.3 BS requirements aspects [NR\_NTN\_solutions-Core]

**R4-2100487 Consideration on BS requirement impact for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101935 NTN - HAPS adjacent channel coexistence**

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

**Discussion:**

[report of discussion]

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

**R4-2102176 NTN - BS requirements overview**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution is giving an overview of candidate BS RF requirements for NTN

**Discussion:**

[report of discussion]

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

### 11.11 NR repeater

#### 11.11.1 General and work plan [NR\_repeaters-Core]

**R4-2103751 Email discussion summary for [98e][312] NR\_Repeater\_General**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2103752 Email discussion summary for [98e][313] NR\_Repeater\_RF**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**R4-2100375 Discussion on NR repeater general issues**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100635 Discussion on Requirements for NR Repeaters**

*Type: discussion For: Approval  
 Source: CommScope Technologies AG*

**Abstract:**

This NR\_repeaters-Core WI aims to specify the RF and EMC requirements for NR repeaters, including repeaters operating in both the FR1 and FR2 bands, and repeaters that support both FDD and TDD operation.

**Discussion:**

[report of discussion]

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

**R4-2100832 General parts of NR repeater**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101041 Views on candidate bands for NR repeater**

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

**Discussion:**

[report of discussion]

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

**R4-2101156 General views on NR repeater**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101963 Discussion on NR based repeater**

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

**Discussion:**

[report of discussion]

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

**R4-2102108 Repeaters WI general considerations**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

General considerations, especially test set-up

**Discussion:**

[report of discussion]

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

**R4-2102580 Consideration of duplex mode for the frequency bands for NR repeater**

*Type: discussion For: Agreement  
 Source: Huawei*

**Abstract:**

In this contribution we provide analysis on the duplex mode for the NR Repeater frequency bands.

**Discussion:**

[report of discussion]

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

**R4-2102829 Common understanding of repeaters**

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

**Discussion:**

[report of discussion]

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

**R4-2102834 Work plan for NR Repeaters**

*Type: Work Plan For: Approval  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102018 NR repeater considerations**

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

**Discussion:**

[report of discussion]

Session Chair: Move this AI from AI 11.1

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

#### 11.11.2 Conductive RF core requirements [NR\_repeaters-Core]

**R4-2102418 NR repeater requirements**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Study of the existing FDD and TDD repeater specification and how the requirements may be applied to an NR repeater.

**Discussion:**

[report of discussion]

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

##### 11.11.2.1 Transmitted power related requirements [NR\_repeaters-Core]

**R4-2100376 Discussion on NR repeater conducted transmitted power**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100828 Power related conducted requirements for repeaters**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2102109 Conducted transmit power**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

FR1 power

**Discussion:**

[report of discussion]

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

##### 11.11.2.2 Emission requirements [NR\_repeaters-Core]

**R4-2100377 Discussion on NR repeater emission requirements for FR1/FR2**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100830 Emission related conducted requirements for repeaters**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2102110 Conducted unwanted emissions**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

FR1 emissions

**Discussion:**

[report of discussion]

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

##### 11.11.2.3 Others [NR\_repeaters-Core]

**R4-2100378 Discussion on NR repeater EVM and frequency stability for FR1/FR2**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100827 Discussion on RF architecture and RF requirements scope of repeater**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2102111 Conducted other requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Other FR1 issues

**Discussion:**

[report of discussion]

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

**R4-2102831 Conducted requirements for NR FR1 repeaters**

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

**Discussion:**

[report of discussion]

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

#### 11.11.3 Radiated RF core requirements

**R4-2102419 Considerations for NR repeaters and AAS**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discussion on the differences between a RF repeater deployed in a AAS BS network compared to the non-AAS BBS network

**Discussion:**

[report of discussion]

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

##### 11.11.3.1 Transmitted power related requirements [NR\_repeaters-Core]

**R4-2100379 Discussion on NR repeater radiated transmitted power**

*Type: other For: Approval  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100829 Power related radiated requirements for repeaters**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2102112 Radiated transmit power**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

FR2 power

**Discussion:**

[report of discussion]

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

##### 11.11.3.2 Emission requirements [NR\_repeaters-Core]

**R4-2100831 Emission related radiated requirements for repeaters**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2102113 Radiated unwanted emissions**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

FR2 emissions

**Discussion:**

[report of discussion]

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

##### 11.11.3.3 Others [NR\_repeaters-Core]

**R4-2102114 Radiated other requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

other FR2 issues

**Discussion:**

[report of discussion]

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

#### 11.11.4 EMC core requirements [NR\_repeaters-Core]

**R4-2100361 Discussion on EMC requirements for NR Repeater**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on EMC requirements for NR Repeater

**Discussion:**

[report of discussion]

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

**R4-2102129 Proposal on the skeleton of NR Repeaters EMC**

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

**Discussion:**

[report of discussion]

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

**R4-2102130 Discussion on NR repeaters EMC**

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

**Discussion:**

[report of discussion]

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

**R4-2102180 Proposal on the skeleton of NR Repeaters EMC**

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

**Discussion:**

[report of discussion]

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

**R4-2102181 Discussion on NR repeaters EMC**

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

**Discussion:**

[report of discussion]

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

**R4-2102579 EMC core requirements for NR repeater**

*Type: discussion For: Agreement  
 Source: Huawei*

**Abstract:**

In this contribution we provide initial analysis of the expected work for EMC requirements for Rel-17 NR Repeaters.

**Discussion:**

[report of discussion]

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

## 12 Rel-17 Study Items for NR

### 12.1 Study on enhanced test methods for FR2 in NR [FS\_FR2\_enhTestMethods]

#### 12.1.1 General [FS\_FR2\_enhTestMethods]

**R4-2103769 Email discussion summary for [98e][330] FR2\_enhTestMethods**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

#### 12.1.2 Test methodology for high DL power and low UL power test cases [FS\_FR2\_enhTestMethods]

**R4-2100525 TP to TR38.884 on High DL and Low UL power test cases**

*Type: other For: Approval  
 Source: Apple Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101485 Overview of the Impact of phase variation for Direct NF Method**

*Type: other For: Approval  
 Source: MVG Industries, Sony*

**Abstract:**

During RAN4#e-97, a WF was agreed [1] for enhanced test methods for NR FR2. Specifically, it was agreed on studying further DNF (direct NF). This contribution provides further simulation results for the DNF test method with the aim of comparing 4x1, 8x2 a

**Discussion:**

[report of discussion]

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

**R4-2102616 On Test methodology for high DL power and low UL power test cases**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

**R4-2102620 NF based solutions and Enhancement of permitted methods**

*Type: discussion For: Approval  
 38.884 v..  
 Source: ROHDE & SCHWARZ*

**Discussion:**

[report of discussion]

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

#### 12.1.3 Polarization basis mismatch [FS\_FR2\_enhTestMethods]

**R4-2100526 TP to TR38.884 on polarization mismatch**

*Type: other For: Approval  
 Source: Apple Inc.*

**Discussion:**

[report of discussion]

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

**R4-2100571 Views on solutions to minimize the impact of polarization basis mismatch**

*Type: other For: Approval  
 Source: Sony, Ericsson*

**Discussion:**

[report of discussion]

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

**R4-2100664 Discussion on enhanced test method for polarization basis mismatch**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

**R4-2100699 Practical TPMI and 2-port CSI-RS for FR2 SISO test enhancement**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Observation1: “practical TPMI” is aligned with network’s capability, and it can further enhance UE performance.

Proposal1: For “TPMI method”, “practical TPMI” shall be further applied.

Observation2: “2-port CSI-RS” is a feasible test method and aligned w

**Discussion:**

[report of discussion]

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

**R4-2100894 Discussion on FR2 EIRP measurement enhancement**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101759 Solution to minimize the impact of polarization basis mismatch**

*Type: discussion For: Approval  
 Source: OPPO*

**Discussion:**

[report of discussion]

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

**R4-2101830 TP to TR38.884 v0.1.0 on polarization basis mismatch**

*Type: pCR For: Approval  
 38.884 v0.1.0  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102090 Discussion on FR2 UL demodulation measurements**

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

**Discussion:**

[report of discussion]

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

**R4-2102674 FR2 testability enhancement for polarization mismatch**

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

**Abstract:**

We discuss test mode, 2 port CSIRS and enhancement 'coverage hole'

**Discussion:**

[report of discussion]

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

#### 12.1.4 Enhanced test methods for inter-band (FR2+FR2) CA [FS\_FR2\_enhTestMethods]

**R4-2100096 Impact of offset antenna to quiet zone in FR2 OTA chamber**

*Type: discussion For: Discussion  
 Source: Anritsu corporation*

**Abstract:**

In this contribution we discuss some open issues such as an impact of the offset antenna on quality of the quiet zone (QoQZ), UE beam forming, and also the applicability of this system to CBM UE.

**Discussion:**

[report of discussion]

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

**R4-2100097 TP to TR 38.884 on Inter-band DL CA in FR2**

*Type: pCR For: Approval  
 38.884 v0.1.0  
 Source: Anritsu corporation*

**Abstract:**

TP to TR 38.884 on Inter-band DL CA in FR2

**Discussion:**

[report of discussion]

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

**R4-2100527 Further analysis of the impact of AoA offset on inter-band CA PSD difference**

*Type: discussion For: Discussion  
 Source: Apple Inc.*

**Discussion:**

[report of discussion]

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

**R4-2102673 On impact of non-co-located test antennae for FR2 inter-band testing**

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

**Abstract:**

We investigate the impact of non-co-located test antennae on CBM UEs

**Discussion:**

[report of discussion]

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

#### 12.1.5 Extreme temperature conditions [FS\_FR2\_enhTestMethods]

**R4-2100098 DUT repositioning during ETC measurement in FR2**

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

**Abstract:**

In this contribution we discuss restrictions of DUT measurement procedure during the 3D scan under the extreme temperature condition (ETC). We also discuss some proposals which are related to a test time reduction.

**Discussion:**

[report of discussion]

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

**R4-2100528 Impact of ET on measurement uncertainty and test tolerance of spherical coverage EIRP and EIS**

*Type: discussion For: Discussion  
 Source: Apple Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101828 Discussions on FR2 Extreme temperature conditions**

*Type: discussion For: Approval  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102617 On extreme temperature condition testing**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

**R4-2102675 FR2 testability in ETC**

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

**Abstract:**

We discuss TE requirements for ETC testing

**Discussion:**

[report of discussion]

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

#### 12.1.6 Enhanced test methods for FR2 DL 256QAM RF [FS\_FR2\_enhTestMethods]

#### 12.1.7 Test time reduction [FS\_FR2\_enhTestMethods]

**R4-2100161 Test time reduction in FR2 using beam sweeping**

*Type: discussion For: Discussion  
 Source: Fraunhofer HHI, Fraunhofer IIS*

**Discussion:**

[report of discussion]

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

**R4-2100245 Test time reduction in OTA measurement**

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

**Abstract:**

In this contribution we discuss a way to reduce test time of a beam peak search in FR2.

**Discussion:**

[report of discussion]

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

**R4-2100665 Discussion on enhance test method to reduce FR2 OTA test time**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

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

**R4-2100895 Discussion on FR2 test time reduction**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101829 Discussions on Test Time Reduction for NR FR2 RF**

*Type: discussion For: Approval  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102088 Discussion on test time reduction methods**

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

**Discussion:**

[report of discussion]

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

**R4-2102401 Analysis on reducing test time**

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

**Discussion:**

[report of discussion]

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

**R4-2102618 On Test Time Enhancements based on different Antenna Array Assumptions**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

#### 12.1.8 Testability for band n262 [FS\_FR2\_enhTestMethods]

##### 12.1.8.1 Extension of frequency applicability of permitted methods in 38.810 [FS\_FR2\_enhTestMethods]

**R4-2100529 Extending the applicability of permitted methods to band n262**

*Type: discussion For: Discussion  
 Source: Apple Inc.*

**Discussion:**

[report of discussion]

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

**R4-2102619 On Testability for band n262**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Discussion:**

[report of discussion]

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

##### 12.1.8.2 Extension of frequency applicability of enhancement objectives 1-6 [FS\_FR2\_enhTestMethods]

**R4-2100530 TP to TR38.884 on structure updates related to band n262**

*Type: other For: Approval  
 Source: Apple Inc.*

**Discussion:**

[report of discussion]

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

## 13 Rel-17 Work Items for LTE

## 14 Rel-17 Study Items for LTE

## 15 Liaison and output to other groups

**R4-2102148 Discussion on LS RP-202935 BCS reporting and support for intra-band EN-DC band combinations**

*Type: discussion For: Approval  
 Source: T-Mobile USA, Bell Mobility, TELUS, Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102149 Draft Reply LS to RP-202935 on BCS reporting and support for intra-band EN-DC band combinations (to: RAN, RAN2; cc: -; contact: T-Mobile USA)**

*Type: LS out For: Approval  
 to RAN, RAN2  
 Source: T-Mobile USA, Bell Mobility, TELUS*

**Discussion:**

[report of discussion]

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

### 15.1 R17 related

**R4-2100159 Discussion on phase continuity for PUSCH and PUCCH repetitions for LS reply**

*Type: other For: Approval  
 Source: InterDigital Communications*

**Abstract:**

Discussion on phase continuity for PUSCH and PUCCH repetitions for LS reply. We propose answers for each question of the LS received from RAN1.

**Discussion:**

[report of discussion]

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

**R4-2100236 Discussion on RAN1 LS on temporary RS for efficient SCell activation in NR CA**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100547 Discussion on LS on questions to RAN WGs on dual Radio UE (2Rx/2Tx or 2Rx/1Tx) support for simultaneous communication with both SNPN and PLMN**

*Type: other For: Approval  
 Source: Sony*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100889 Discussion on LS on PUCCH and PUSCH repetition**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101017 Discussion and Draft Reply LS to RAN1 on beam switching gap**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101157 Discussion reply LS on Beam switching gaps for Multi-TRP UL transmission**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101543 Reply LS on temporary RS for efficient SCell activation in NR CA**

*Type: LS out For: Approval  
 to RAN1  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101709 Discussion on temporary RS for efficient SCell activation in NR CA**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102347 Reply LS on PUCCH and PUSCH repetition**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

RAN1 LS (R1-2009784) is discussed and LS reply is proposed

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102389 Discussion on reply LS on Beam switching gaps for Multi-TRP UL transmission**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102390 draft reply LS on Beam switching gaps for Multi-TRP UL transmission**

*Type: LS out For: Approval  
 to RAN1  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102630 on phase continuity for PUCCH and PUSCH repetition and reply LS**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102710 Discussion and Reply LS on Beam switching gaps for Multi-TRP UL transmission**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102894 Discussion on temporary RS for efficient SCell activation in NR CA**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 15.2 Others

**R4-2102387 On SUO for intra-band EN-DC**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102388 On BCS reporting and support for intra-band EN-DC band combinations**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

## 16 Revision of the Work Plan

## 17 Any other business

## 18 Close of the E-meeting

## BACKUP

**R4-21AAAAA Email discussion summary for**

*Type: other For: Information  
 Source: Moderator (TBA)*

**Abstract:**

**Discussion:**

**Decision: Return to.**