**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 Vice Chairman 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

### 4.7 RRM core requirements maintenance (38.133/36.133) [NR\_newRAT-Core]

================================================================================

**Email discussion: [98e][201] NR\_NewRAT\_RRM\_Core**

**R4-2103440 Email discussion summary: [98e][201] NR\_NewRAT\_RRM\_Core***Type: other For: Information  
Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100172 Further discussion on CSSF for R15 EN-DC**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100173 CR on CSSF for EN-DC R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1438 Cat: F (Rel-15)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100174 On SSB-less SCell activation**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision: Noted.**

**R4-2100175 CR on FR2 SCell activation requirement R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1439 Cat: F (Rel-15)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision: Postponed.**

**R4-2100176 CR on FR2 SCell activation requirement R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1440 Cat: A (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100177 CR on FR2 SCell activation requirement R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1441 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100178 CR on smtc1 and smtc2 differentiation in intra-frequency measurement with MG R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1442 Cat: F (Rel-15)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision: Postponed.**

**R4-2100179 CR on smtc1 and smtc2 differentiation in intra-frequency measurement with MG R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1443 Cat: A (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100180 CR on smtc1 and smtc2 differentiation in intra-frequency measurement with MG R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1444 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100233 Interruption requirements due to measurement on SCC in NR-DC (R15)**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1463 Cat: F (Rel-15)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision: Postponed.**

**R4-2100851 Discussion on deactivated SCell measurement for intra-frequency measurement with measurement gap**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100852 CR on deactivated SCell measurement for intra-frequency measurement with measurement gap**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1528 Cat: F (Rel-15)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100853 CR on deactivated SCell measurement for intra-frequency measurement with measurement gap**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1529 Cat: A (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101006 CR on Scell activation delay maintenance (R15)**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1537 Cat: F (Rel-15)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101007 CR on Scell activation delay maintenance (R16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1538 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101008 CR on Scell activation delay maintenance (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1539 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101050 Remaining issues on RRM in R15**

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

**Discussion:**

[report of discussion]

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

**R4-2101051 CR on R15 remaining issues**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1548 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101052 CR on R15 remaining issues**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1549 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101053 CR on R15 remaining issues**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1550 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101071 CR on SSB less SCell activation for FR1 for Rel-15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1553 Cat: F (Rel-15)  
  
 Source: NEC*

**Abstract:**

SSB less SCell activation for FR1 is supported in Rel-15 from RAN1/RAN2 perspective. However the requirements for the same are missing in TS 38.133.

**Discussion:**

[report of discussion]

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

**R4-2101072 CR on SSB less SCell activation for FR1 for Rel-16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1554 Cat: F (Rel-16)  
  
 Source: NEC*

**Abstract:**

SSB less SCell activation for FR1 is supported in Rel-16 from RAN1/RAN2 perspective. However the requirements for the same are missing in TS 38.133.

**Discussion:**

[report of discussion]

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

**R4-2101407 Discussion on RRC based BWP switching**

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

**Discussion:**

[report of discussion]

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

**R4-2101464 CR on the filter for beam failure indications in 38.133**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1605 Cat: F (Rel-15)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101465 CR on the filter for beam failure indications in 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1606 Cat: A (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101466 CR on the filter for beam failure indications in 38.133**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1607 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102536 On correction to inter-RAT CSSF**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On correction to inter-RAT CSSF

**Discussion:**

[report of discussion]

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

**R4-2102537 Correction to inter-RAT CSSF**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1728 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction to inter-RAT CSSF

**Discussion:**

[report of discussion]

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

**R4-2102538 Correction to inter-RAT CSSF**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1729 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction to inter-RAT CSSF

**Discussion:**

[report of discussion]

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

**R4-2102731 CR to remove intra-frequency ECID requirements for NE-DC 36133 R15**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7058 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102732 CR to remove intra-frequency ECID requirements for NE-DC 36133 R16**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7059 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102733 CR to remove intra-frequency ECID requirements for NE-DC 36133 R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7060 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102734 CR to idle more requirements in 36133 R15**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7061 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102735 CR to idle more requirements in 36133 R16**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7062 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102736 CR to idle more requirements in 36133 R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7063 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102737 Discussion on CSSF for inter-RAT measurement, SCell activation delay and cell identification requirements on deactivated SCell in Rel-15**

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

**Discussion:**

[report of discussion]

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

**R4-2102738 CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1752 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102739 CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1753 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102740 CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1754 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102827 Correction to inter-RAT CSSF**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1775 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Correction to inter-RAT CSSF

**Discussion:**

[report of discussion]

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

**R4-2102872 Cat-F CR to SSB-less SCell activation delay requirement for deactivated FR1 SCell in Rel-15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1776 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102873 Cat-A CR to SSB-less SCell activation delay requirement for deactivated FR1 SCell in Rel-16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1777 Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102874 Cat-A CR to SSB-less SCell activation delay requirement for deactivated FR1 SCell in Rel-17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1778 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

### 4.8 RRM perf. requirements maintenance (38.133/36.133) [NR\_newRAT-Perf]

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**Email discussion: [98e][202] NR\_NewRAT\_RRM\_Perf**

**R4-2103441 Email discussion summary: [98e][202] NR\_NewRAT\_RRM\_Perf***Type: other For: Information  
Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

================================================================================

**R4-2100058 [CR] RRM test case maintenance R15 Cat F**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1416 Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Abstract:**

R15 Cat F CR to fix some errors existing in the test cases.

**Discussion:**

[report of discussion]

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

**R4-2100059 [CR] RRM test case maintenance R16 Cat A**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1417 Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

Cat A CR for R16

**Discussion:**

[report of discussion]

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

**R4-2100060 [CR] RRM test case maintenance R17 Cat A**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1418 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Cat A CR for R17

**Discussion:**

[report of discussion]

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

**R4-2100067 FR2 PDSCH Reference channel and OCNG for RRM Test cases**

*Type: discussion For: Endorsement  
 Source: ANRITSU LTD*

**Abstract:**

The downlink dB range for RRM Test cases is very restricted where signals arrive from the UE Spherical coverage direction, and there is not enough range to implement FR2 RRM Spherical Coverage test cases as currently written. The range can be increased by

**Discussion:**

[report of discussion]

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

**R4-2100068 Update FR2 Reference channels and OCNG for FR2 RRM Test cases**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1422 Cat: F (Rel-15)  
  
 Source: ANRITSU LTD*

**Abstract:**

Define new PDSCH Reference Measurement Channels occupying the same PRBs as the CORESET, 24RB and 48RB. Define new RMSI CORESET Reference Channel and Control Channel RMC with 48RBs allowing use with 240kHz SSB SCS Test cases.

Update OCNG pattern OP.3 to co

**Discussion:**

[report of discussion]

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

**R4-2100069 Update FR2 Reference channels and OCNG for FR2 RRM Test cases**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1423 Cat: A (Rel-16)  
  
 Source: ANRITSU LTD*

**Abstract:**

Define new PDSCH Reference Measurement Channels occupying the same PRBs as the CORESET, 24RB and 48RB. Define new RMSI CORESET Reference Channel and Control Channel RMC with 48RBs allowing use with 240kHz SSB SCS Test cases.

Update OCNG pattern OP.3 to co

**Discussion:**

[report of discussion]

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

**R4-2100070 Update FR2 Reference channels and OCNG for FR2 RRM Test cases**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1424 Cat: A (Rel-17)  
  
 Source: ANRITSU LTD*

**Abstract:**

Define new PDSCH Reference Measurement Channels occupying the same PRBs as the CORESET, 24RB and 48RB. Define new RMSI CORESET Reference Channel and Control Channel RMC with 48RBs allowing use with 240kHz SSB SCS Test cases.

Update OCNG pattern OP.3 to co

**Discussion:**

[report of discussion]

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

**R4-2100071 FR2 Reference channels for RRM Test cases with 240kHz SSB SCS**

*Type: discussion For: Endorsement  
 Source: ANRITSU LTD*

**Abstract:**

Some FR2 RRM Test cases in Annex A of TS 38.133 specify a configuration with 240kHz SSB SCS.

RRM test case configurations using 240kHz SSB SCS need different Reference channels which are not currently specified in TS 38.133. This Tdoc identifies new Refer

**Discussion:**

[report of discussion]

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

**R4-2100072 CR to FR1 SA SS-SINR measurement TCs**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1425 Cat: F (Rel-15)  
  
 Source: ANRITSU LTD*

**Abstract:**

Update Test Parameters table format to show that TRS config is only for Cell 1

Update Table A.6.7.3.2.2-2 to include gap configuration, Gap pattern ID = 0

**Discussion:**

[report of discussion]

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

**R4-2100073 CR to FR1 SA SS-SINR measurement TCs**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1426 Cat: F (Rel-16)  
  
 Source: ANRITSU LTD*

**Abstract:**

Update Test Parameters table format to show that TRS config is only for Cell 1

Align SMTC configuration in Table A.6.7.3.1.2-2 with Rel-15 spec.

Update Table A.6.7.3.1.2-2 to include Time offset with Cell 1.

Update Table A.6.7.3.2.2-2 to include gap confi

**Discussion:**

[report of discussion]

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

**R4-2100074 CR to FR1 SA SS-SINR measurement TCs**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1427 Cat: A (Rel-17)  
  
 Source: ANRITSU LTD*

**Abstract:**

Update Test Parameters table format to show that TRS config is only for Cell 1

Align SMTC configuration in Table A.6.7.3.1.2-2 with Rel-15 spec.

Update Table A.6.7.3.1.2-2 to include Time offset with Cell 1.

Update Table A.6.7.3.2.2-2 to include gap confi

**Discussion:**

[report of discussion]

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

**R4-2100075 CR on E-UTRA carrier for EN-DC event triggered reporting tests**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1428 Cat: F (Rel-15)  
  
 Source: ANRITSU LTD*

**Abstract:**

Remove “TDD” comment to allow LTE FDD configurations to be tested.

**Discussion:**

[report of discussion]

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

**R4-2100076 CR on E-UTRA carrier for EN-DC event triggered reporting tests**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1429 Cat: A (Rel-16)  
  
 Source: ANRITSU LTD*

**Abstract:**

Remove “TDD” comment to allow LTE FDD configurations to be tested.

**Discussion:**

[report of discussion]

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

**R4-2100077 CR on E-UTRA carrier for EN-DC event triggered reporting tests**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1430 Cat: A (Rel-17)  
  
 Source: ANRITSU LTD*

**Abstract:**

Remove “TDD” comment to allow LTE FDD configurations to be tested.

**Discussion:**

[report of discussion]

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

**R4-2100078 Add missing FR2 Test case setups and Beam assumptions**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1431 Cat: F (Rel-15)  
  
 Source: ANRITSU LTD*

**Abstract:**

Specify setup 1 for FR2 Handover and RRC Connection Release/Redirection and add missing Control Channel RMC.

Reduce allocated RBs to 24 for Inter-RAT event triggered reporting test case A.8.4.2.5 and apply Es only.

Specify setup 1 for Inter-RAT event trig

**Discussion:**

[report of discussion]

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

**R4-2100079 Add missing FR2 Test case setups and Beam assumptions**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1432 Cat: A (Rel-16)  
  
 Source: ANRITSU LTD*

**Abstract:**

Specify setup 1 for FR2 Handover and RRC Connection Release/Redirection and add missing Control Channel RMC.

Reduce allocated RBs to 24 for Inter-RAT event triggered reporting test case A.8.4.2.5 and apply Es only.

Specify setup 1 for Inter-RAT event trig

**Discussion:**

[report of discussion]

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

**R4-2100080 Add missing FR2 Test case setups and Beam assumptions**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1433 Cat: A (Rel-17)  
  
 Source: ANRITSU LTD*

**Abstract:**

Specify setup 1 for FR2 Handover and RRC Connection Release/Redirection and add missing Control Channel RMC.

Reduce allocated RBs to 24 for Inter-RAT event triggered reporting test case A.8.4.2.5 and apply Es only.

Specify setup 1 for Inter-RAT event trig

**Discussion:**

[report of discussion]

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

**R4-2100479 Correction to cell reselection test case**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1494 Cat: F (Rel-15)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100480 Correction to cell reselection test case**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1495 Cat: A (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100481 Correction to cell reselection test case**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1496 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100601 Update of DRX configuration in FR1 Event-triggered Test cases**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1503 Cat: F (Rel-15)  
  
 Source: ANRITSU LTD*

**Abstract:**

Update DRX configuration to avoid problem with time alignment timer expiry.

**Discussion:**

[report of discussion]

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

**R4-2100602 Update of DRX configuration in FR1 Event-triggered Test cases**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1504 Cat: F (Rel-16)  
  
 Source: ANRITSU LTD*

**Abstract:**

Update DRX configuration to avoid problem with time alignment timer expiry.

This CR is Cat F because Rel-16 includes test cases A.4.6.1.7 and A.6.6.1.7 in addition to those in Rel-15.

**Discussion:**

[report of discussion]

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

**R4-2100603 Update of DRX configuration in FR1 Event-triggered Test cases**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1505 Cat: F (Rel-17)  
  
 Source: ANRITSU LTD*

**Abstract:**

Update DRX configuration to avoid problem with time alignment timer expiry.

This CR is Cat F because Rel-17 includes test cases A.4.6.1.7 and A.6.6.1.7 in addition to those in Rel-15, and the whole test case A.6.6.1.7 was missing.

**Discussion:**

[report of discussion]

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

**R4-2100760 Correction on PRACH configuration for FR2 Non-Contention based Random Access in R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1512 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100761 Correction on PRACH configuration for FR2 Non-Contention based Random Access in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1513 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100762 Correction on PRACH configuration for FR2 Non-Contention based Random Access in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1514 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100763 Correction on PRACH configuration for Beam Failure Detection and Link Recovery Test in R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1515 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100764 Correction on PRACH configuration for Beam Failure Detection and Link Recovery Test in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1516 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100765 Correction on PRACH configuration for Beam Failure Detection and Link Recovery Test in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1517 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100766 Correction on PRACH RMC for FR1 CSI-RS based Non-Contention based Random Access for BFR in R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1518 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100767 Correction on PRACH RMC for FR1 CSI-RS based Non-Contention based Random Access for BFR in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1519 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100768 Correction on PRACH RMC for FR1 CSI-RS based Non-Contention based Random Access for BFR in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1520 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101047 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1545 Cat: F (Rel-15)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101048 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1546 Cat: A (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101049 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1547 Cat: A (Rel-17)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101161 Correction on the power of the first preamble for random access in EN-DC and SA in R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1563 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101162 Correction on the power of the first preamble for random access in EN-DC and SA in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1564 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101163 Correction on the power of the first preamble for random access in EN-DC and SA in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1565 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101164 Correction on the time for Scell activation and CSI-report in R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1566 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101165 Correction on the time for Scell activation and CSI-report in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1567 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101166 Correction on the time for Scell activation and CSI-report in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1568 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101167 Correction on the Noc level in TS38.133 in R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1569 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101168 Correction on the Noc level in TS38.133 in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1570 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101169 Correction on the Noc level in TS38.133 in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1571 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101170 Correction on the SS-RSRP difference value for SS-RSRP measurement TC in R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1572 Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101171 Correction on the SS-RSRP difference value for SS-RSRP measurement TC in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1573 Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101172 Correction on the SS-RSRP difference value for SS-RSRP measurement TC in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1574 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101612 Correction to Aperiodic CSI-RS configurations R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1614 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101613 Correction to Aperiodic CSI-RS configurations R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1615 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101614 Correction to Aperiodic CSI-RS configurations R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1616 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101615 Correction to radio link monitoring test cases R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1617 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101616 Correction to radio link monitoring test cases R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1618 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101617 Correction to radio link monitoring test cases R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1619 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101618 Correction to beam failure recovery test cases R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1620 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101619 Correction to beam failure recovery test cases R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1621 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101620 Correction to beam failure recovery test cases R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1622 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101621 Correction to L1-RSRP reporting delay test cases R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1623 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101622 Correction to L1-RSRP reporting delay test cases R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1624 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101623 Correction to L1-RSRP reporting delay test cases R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1625 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101660 Discussion on antenna configurations for 4Rx capable UE**

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

**Discussion:**

[report of discussion]

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

**R4-2101661 CR on maintaining Antenna configurations in TS38.133 R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1634 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101662 CR on maintaining Antenna configurations in TS38.133 R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1635 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101663 CR on maintaining Antenna configurations in TS38.133 R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1636 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101664 CR on test requirements for measurement performance tests R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1637 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101665 CR on test requirements for measurement performance tests R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1638 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101666 CR on test requirements for measurement performance tests R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1639 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101701 Correction on test cases of inter-frequency Measurements R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1653 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101702 Correction on test cases of inter-frequency Measurements R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1654 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101703 Correction on test cases of inter-frequency Measurements R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1655 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101704 Correction on NR Pcell FR2 active TCI state switching R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1656 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101705 Correction on NR Pcell FR2 active TCI state switching R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1657 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101706 Correction on NR Pcell FR2 active TCI state switching R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1658 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102306 CR to TS 38.133: Redundant and incorrect TCI state in tests with TRS (Rel-15)**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1712 Cat: F (Rel-15)  
  
 Source: Rohde & Schwarz*

**Discussion:**

[report of discussion]

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

**R4-2102307 CR to TS 38.133: Redundant and incorrect TCI state in tests with TRS (Rel-16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1713 Cat: A (Rel-16)  
  
 Source: Rohde & Schwarz*

**Discussion:**

[report of discussion]

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

**R4-2102308 CR to TS 38.133: Redundant and incorrect TCI state in tests with TRS (Rel-17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1714 Cat: A (Rel-17)  
  
 Source: Rohde & Schwarz*

**Discussion:**

[report of discussion]

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

**R4-2102309 CR to TS 38.133: Corrections to TC A.4.5.7.1 (Rel-15)**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1715 Cat: F (Rel-15)  
  
 Source: Rohde & Schwarz*

**Discussion:**

[report of discussion]

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

**R4-2102310 CR to TS 38.133: Corrections to TC A.4.5.7.1 (Rel-16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1716 Cat: A (Rel-16)  
  
 Source: Rohde & Schwarz*

**Discussion:**

[report of discussion]

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

**R4-2102311 CR to TS 38.133: Corrections to TC A.4.5.7.1 (Rel-17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1717 Cat: A (Rel-17)  
  
 Source: Rohde & Schwarz*

**Discussion:**

[report of discussion]

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

**R4-2102726 CR on test cases for inter-RAT measurement r15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1749 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102727 CR on test cases for inter-RAT measurement r16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1750 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102728 CR on test cases for inter-RAT measurement r17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1751 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102741 CR on SCell activation TCs R15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1755 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102742 CR on SCell activation TCs R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1756 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102743 CR on SCell activation TCs R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1757 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102869 CR on correcting SSB and RACH configuration in CSI-RS based beam failure detection and link recovery tests**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1404 rev 1 Cat: F (Rel-15)  
  
 Source: Qualcomm CDMA Technologies*

(Replaces R4-2017048)

**Abstract:**

R4-2017048 was endorsed but returned due to a formatting issue. Resubmission to 98e.

**Discussion:**

[report of discussion]

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

**R4-2102875 Cat-F CR to addition of TRS Configurations in Rel-15 Test Cases**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1779 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102876 Cat-A CR to addition of TRS Configurations in Rel-16 Test Cases**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1780 Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102877 Cat-A CR to addition of TRS Configurations in Rel-17 Test Cases**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1781 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102878 Cat-F CR to DRX Configurations in Rel-15**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1782 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102879 Cat-A CR to DRX Configurations in Rel-16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1783 Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102880 Cat-A CR to DRX Configurations in Rel-17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1784 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102905 CR on correcting SSB and RACH configuration in CSI-RS based beam failure detection and link recovery tests**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1789 Cat: A (Rel-16)  
  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Mirror CR for CR 1404 in R4-2102869

**Discussion:**

[report of discussion]

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

**R4-2102908 CR on correcting SSB and RACH configuration in CSI-RS based beam failure detection and link recovery tests**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1790 Cat: A (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Mirror CR of CR 1404 in R4-2102869

**Discussion:**

[report of discussion]

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

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

### 5.3 RRM requirements [WI code or TEI]

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**Email discussion: [98e][203] LTE\_RRM\_maintenance**

**R4-2103442 Email discussion summary: [98e][203] LTE\_RRM\_maintenance***Type: other For: Information  
Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100457 CR on NCSG in 36.133**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7013 Cat: F (Rel-15)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100458 CR on NCSG in 36.133**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7014 Cat: A (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100459 CR on NCSG in 36.133**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7015 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100813 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1523 Cat: F (Rel-15)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100814 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1524 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100815 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1525 Cat: F (Rel-17)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100873 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v15.12.0 CR-1530 Cat: F (Rel-15)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100874 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1531 Cat: A (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100875 CR for test requirements correction of SA event triggered reporting tests for FR1 inter-frequency measurements with SSB time index detection when DRX is used**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1532 Cat: A (Rel-17)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101453 CR: Correction of eMTC RLM test cases (Rel-14)**

*Type: CR For: Agreement  
 36.133 v14.17.0 CR-7019 Cat: F (Rel-14)  
  
 Source: Ericsson*

**Abstract:**

This CR corrects TBD and removes [] from Rel-14 eMTC early-OOS/early-IS tests.

**Discussion:**

[report of discussion]

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

**R4-2101454 CR: Correction of eMTC RLM test cases**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7020 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

This CR corrects TBD and removes [] from Rel-14 eMTC early-OOS/early-IS tests.

**Discussion:**

[report of discussion]

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

**R4-2101455 CR: Correction of eMTC RLM test cases**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7021 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR corrects TBD and removes [] from Rel-14 eMTC early-OOS/early-IS tests.

**Discussion:**

[report of discussion]

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

**R4-2101456 CR: Correction of eMTC RLM test cases**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7022 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR corrects TBD and removes [] from Rel-14 eMTC early-OOS/early-IS tests.

**Discussion:**

[report of discussion]

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

**R4-2102348 CR 36.133 (A.8.16.106) Correction of test case for direct SCell activation at addition**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7038 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Addressing a missing MG configuration

**Discussion:**

[report of discussion]

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

**R4-2102349 CR 36.133 (A.8.16.106) Correction of test case for direct SCell activation at addition**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7039 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Addressing a missing MG configuration

**Discussion:**

[report of discussion]

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

**R4-2102350 CR 36.133 (A.8.16.106) Correction of test case for direct SCell activation at addition**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7040 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Addressing a missing MG configuration

**Discussion:**

[report of discussion]

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

**R4-2102693 Correction to applicability of E-UTRAN E-CID measurements requirements for NE-DC**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7051 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of referencing errors in applicability for NE-DC

**Discussion:**

[report of discussion]

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

**R4-2102694 Correction to applicability of E-UTRAN E-CID measurements requirements for NE-DC**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7052 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of referencing errors in applicability for NE-DC

**Discussion:**

[report of discussion]

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

**R4-2102695 Correction to applicability of E-UTRAN E-CID measurements requirements for NE-DC**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7053 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of referencing errors in applicability for NE-DC

**Discussion:**

[report of discussion]

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

**R4-2102696 Correction to requirements for NCSG patterns**

*Type: CR For: Agreement  
 36.133 v14.17.0 CR-7054 Cat: F (Rel-14)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of referencing errors for NCSG patterns

**Discussion:**

[report of discussion]

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

**R4-2102697 Correction to requirements for NCSG patterns**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7055 Cat: A (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of referencing errors for NCSG patterns

**Discussion:**

[report of discussion]

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

**R4-2102698 Correction to requirements for NCSG patterns**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7056 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of referencing errors for NCSG patterns

**Discussion:**

[report of discussion]

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

**R4-2102699 Correction to requirements for NCSG patterns**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7057 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction of referencing errors for NCSG patterns

**Discussion:**

[report of discussion]

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

**R4-2102804 CR on TC for eMTC RSTD measurement R15**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7074 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102805 CR on TC for eMTC RSTD measurement R16**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7075 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102806 CR on TC for eMTC RSTD measurement R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7076 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102807 CR on CRS muting for eMTC R15**

*Type: CR For: Agreement  
 36.133 v15.12.0 CR-7077 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102808 CR on CRS muting for eMTC R16**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7078 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102809 CR on CRS muting for eMTC R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7079 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

## 6 Rel-16 Work Items for LTE

### 6.1 Additional MTC enhancements for LTE [LTE\_eMTC5]

#### 6.1.2 RRM requirements maintenance [LTE\_eMTC5-Core/Perf]

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**Email discussion: [98e][225] LTE\_eMTC5\_RRM**

**R4-2103464 Email discussion summary: [98e][225] LTE\_eMTC5\_RRM***Type: other For: Information  
Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2101457 Correction Rel-16 eMTC RRM performance requirements**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7023 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR corrects RRM performance requirements defined in Rel-16 eMTC WI.

**Discussion:**

[report of discussion]

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

**R4-2101458 Correction Rel-16 eMTC RRM performance requirements**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7024 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR corrects RRM performance requirements defined in Rel-16 eMTC WI.

**Discussion:**

[report of discussion]

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

**R4-2102247 Discussions on RRM maintenance issues for Rel-16 eMTC UE**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss the open issues that were identified at last meeting with regard to INACTIVE state operation and RSS based measurement for release 16 eMTC.

**Discussion:**

[report of discussion]

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

**R4-2102296 On RSS measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102796 Discussion on remaining issues in RSS measurement and RRC\_Inactive state**

*Type: LS out For: Approval  
 to RAN1, cc RAN2  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102797 CR on eMTC RRM requirements**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7072 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102798 CR on eMTC RRM requirements R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7073 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

### 6.2 Additional enhancements for NB-IoT [NB\_IOTenh3]

#### 6.2.2 RRM requirements maintenance [NB\_IOTenh3-Core/Perf]

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**Email discussion: [98e][226] NB\_IOTenh3\_RRM**

**R4-2103465 Email discussion summary: [98e][226] NB\_IOTenh3\_RRM***Type: other For: Information  
Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2101654 CR on maintenance for measurement on non-anchor carrier for NB-IoT**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7027 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101655 CR on maintenance for measurement on non-anchor carrier for NB-IoT**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7028 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102234 Correction to PUR requirements for NB1 UE**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7033 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

PUR requirements have been aligned between category M1 and NB1 UEs. Regarding the use of relaxation factor N in the measurement validation expression, the description of N is not aligned.

**Discussion:**

[report of discussion]

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

**R4-2102235 Correction to PUR requirements for NB1 UE**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7034 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

PUR requirements have been aligned between category M1 and NB1 UEs. Regarding the use of relaxation factor N in the measurement validation expression, the description of N is not aligned.

**Discussion:**

[report of discussion]

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

### 6.3 Even further Mobility enhancement in E-UTRAN [LTE\_feMob]

#### 6.3.1 RRM core requirements maintenance [LTE\_feMob-Core]

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**Email discussion: [98e][227] LTE\_feMob\_RRM**

**R4-2103466 Email discussion summary: [98e][227] LTE\_feMob\_RRM***Type: other For: Information  
Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2101207 TDD UL-DL and DL-UL switching in LTE DAPS handover**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Further clarification on DL-to-UL and UL-to-DL switching time

**Discussion:**

[report of discussion]

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

**R4-2101208 Correction on the synchronous condition for DAPS handover**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7017 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Add conditions for not expected to transmit / not expected to receive covering both source and target cell. Add autonomous interruption allowance if these conditions are unspecified.

**Discussion:**

[report of discussion]

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

**R4-2101209 Correction on the synchronous condition for DAPS handover**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7018 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Add conditions for not expected to transmit / not expected to receive covering both source and target cell. Add autonomous interruption allowance if these conditions are unspecified.

**Discussion:**

[report of discussion]

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

**R4-2101697 Clarification on asynchronous DAPS handover**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7029 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101698 Clarification on asynchronous DAPS handover**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7030 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

#### 6.3.2 RRM perf. requirements [LTE\_feMob-Perf]

##### 6.3.2.1 General [LTE\_feMob-Perf]

##### 6.3.2.2 Test cases [LTE\_feMob-Perf]

**R4-2101699 Test cases for inter-frequency DAPS handover**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7031 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101700 Test cases for inter-frequency DAPS handover**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7032 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102485 CR on 36133 LTE FDD-TDD inter-F sync DAPS HO TCs**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7043 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Test cases for LTE FDD-TDD inter-band inter-F sync DAPS HO.

**Discussion:**

[report of discussion]

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

**R4-2102486 CR on 36133 LTE FDD-TDD inter-F sync DAPS HO TCs - Cat-A**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7044 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Mirror CR for Rel17 on test cases for LTE FDD-TDD inter-band inter-F sync DAPS HO.

**Discussion:**

[report of discussion]

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

**R4-2102632 Addition of missing async FDD-TDD and TDD-FDD LTE interband interfrquency DAPS handover tests**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7047 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The side conditions are related to one shot timing adjustment, which was removed. The annex is no more applicable and is removed.

**Discussion:**

[report of discussion]

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

**R4-2102633 Addition of missing async FDD-TDD and TDD-FDD LTE interband interfrquency DAPS handover tests**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7048 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The side conditions are related to one shot timing adjustment, which was removed. The annex is no more applicable and is removed.

**Discussion:**

[report of discussion]

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

### 6.4 R16 LTE maintenance [WI code]

#### 6.4.3 RRM requirements [WI code]

**R4-2102248 Clarification for performance requirements tests for euCA**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7036 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102249 Clarification for performance requirements tests for euCA**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7037 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

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

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

#### 7.1.5 RRM core requirements maintenance (38.133) [NR\_unlic-Core]

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**Email discussion: [98e][205] NR\_unlic\_RRM\_1**

**R4-2103444 Email discussion summary: [98e][205] NR\_unlic\_RRM\_1***Type: other For: Information  
Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session (January 26, 2021)

**Topic #2: RRC connection mobility control (AI 7.1.5.2)**

* Sub-topic 2-1: Random Access requirements - general
  + Issue 2-1-2: Supplementary UL in NR-U requirements
    - Proposal 1 (Nokia): It is not necessary to work on requirements for random access in supplementary uplink in Rel-16 NR-U: this scenario is not in the scope of this work item.

Discussion

* + - E///: support Proposal
    - Huawei: we should not preclude SUL. Based on current spec the requirements apply to SUL as well
    - E///: the discuss is about 2step RACH for NR-U. 2step RACH applies for SUL. There is no SUL for NR-U and it should not be discussed.
    - Huawei: support of SUL depends on the BC. It is supported in RAN1.
    - E///: Need to check if there is RF support. We can further check what is going on in RAN1.
    - Nokia: Agree with E/// that we don’t have to work in case in there are no RF requirements. What is Huawei intention (not preclude or include)?
    - Huawei: It is ok for us not have requirement now. In case the RF BCs are defined then we can define it in RRM.

Agreements:

Do not define RRM requirements for random access in supplementary uplink.

Note: The respective requirements can be discussed in the future when the corresponding RF band combinations including NR-U and SUL are introduced and also subject to the outcome of RAN1 discussion.

* Sub-topic 2-2: Random Access requirements – 2-step RA
  + Issue 2-2-1: Whether to define NR-U RA requirements for 2-step RA
    - Proposals
      * Proposal 1 (ZTE, Ericsson, Qualcomm, Nokia): RAN4 to define requirements for 2-step RA in Rel-16 NR-U.
      * Proposal 2 (Huawei/HiSilicon, MTK): Whether to define the requirements for Rel-16 features for NR-U should be taken cautiously. Whether to define 2-step RACH requirements for NR-U shall be discussed also for other Rel-16 features/requirements.
    - Recommended WF
      * RAN4 to define NR-U requirements for 2-step RA.

Discussion

* + - MTK: Prefer Proposal 2
    - ZTE: Proposals 1
    - E///: Agree with ZTE that it is already defined in RAN2; 2step RACH requirements were defined in a generic way
    - Nokia, QC: Same view as E/// and ZTE
    - MTK: there are other Rel-16 features (e.g., multiple SCell, multiple BWP switching). Should we define NR-U requirements for these features as well?
      * E///: it is up to RAN4 discussion and decision. Prefer to keep it as a separate discussion.
    - Huawei: no strong view but have same concerns as MTK on how to treat other R16 requirements.
    - Apple: we prefer to define additional features as well

Agreements: Define requirements for 2-step RA in Rel-16 NR-U.

**Topic #3: SCell activation/deactivation (AI 7.1.5.3)**

* Sub-topic 3-1: Interruptions
  + Issue 3-1-1: General
    - Proposals
      * Proposal 1 (Qualcomm): Interruption requirements (i.e. number of interruptions and starting point of an interruption) on any active cell in the same band as the SCell being activated (intra-band) and any active cell outside this band (inter-band) should be treated separately.
    - Recommended WF
      * Agree to discuss separately:
        + Interruptions on any active cell in the same band with the SCell being activated
        + Interruptions on any active cell outside the band with the SCell being activated

Discussion

* + - * QC: interruptions should be discussed from the victim cell perspective
      * MTK: agree with QC
      * Apple: do we consider only 2 CCs or can consider more CCs?
        + QC: no restriction. Different requirements may apply for different cells.

Agreement

* + - * Further discuss the following 2 types of interruptions
        + Interruptions on any active cell in the same band with the SCell being activated
        + Interruptions on any active cell outside the band with the SCell being activated
  + Issue 3-1-2: For inter-band CA, interruptions (the number of, and the starting point) on active cells in the same band with the SCell being activated
    - Proposals
      * Proposal 1 (Qualcomm): During inter-band CA, interruption requirements (i.e. number of interruptions and starting point of an interruption) for intra-band CA applies to any active cell, if present, in the same band as the SCell being activated.
      * Proposal 2 (Ericsson): A single interruption applies.
      * Proposal 3: For any active cell in the same band with the SCell being activated, the interruption requirements (i.e. number of interruptions and starting point of an interruption) for intra-band CA applies.
    - Recommended WF
      * Discuss the proposals

Discussion

* + - * Huawei: The issue is for inter-band CA. Does P3 mean intra-band CA only?
        + E///: Same question for P3.
      * E///: In case Scell is known then for inter-band CA there will be a single interruption. We follow the legacy requirements.
      * MTK: For Proposal 3 we just add a condition that SCell is in the same band. We need multiple interruption windows.

Agreements: For inter-band CA

* For any active cell in the same band with the SCell being activated, the interruption requirements (i.e. number of interruptions and starting point of an interruption) for intra-band CA apply.
* For any active cell outside the band with the SCell being activated, the interruption requirements are FFS.
  + Issue 3-1-3: For intra-band CA, additional RF re-retuning for the case when there is already activated SCell
    - Proposals
      * Proposal 1 (Qualcomm): There is no need to specify additional RF re-tuning time or extend the interruption time because of DL LBT failure during intra-band SCell activation.
      * Proposal 2 (Huawei/HiSilicon): For the case when there is already activated SCell within the same band, additional interruption for additional RF tuning is allowed when the SMTC occasion is not available until the first available SMTC occasion.
      * Proposal 3 (ZTE): Additional RF re-tuning time is needed.
    - Recommended WF
      * Discuss the proposals

Discussion

* + - * MTK: For intra-band CA the interruption duration is already long. We can extend the interruption time a little bit.
      * QC: Interruption is already long. Even in the worst case UE should be able to retune back.
      * Huawei: We are not talking about multiple interruptions.
      * Chair: continue the discussion
* Sub-topic 3-2: SCell activation/deactivation when *sCellDeactivationTimer* is NOT configured
  + Issue 3-2-1: Applicability of SCell activation requirements when sCellDeactivationTimer is NOT configured
    - Proposals
      * Proposal 1 (Ericsson, Huawei/HiSilicon, Apple): The SCell activation requirements do not apply, when the sCellDeactivationTimer is not configured
        + Issue addressed by the proposal: the current SCell activation delay requirement in 38.133 has no limit, i.e., it is infinite.
      * Proposal 1a (Ericsson, QC):
        + If Proposal 1 (the requirement is not applicable) is not agreeable, an alternative proposal:
        + The SCell activation requirements for NR-U do not apply when the sCellDeactivationTimer is not configured, when the SCell activation delay exceeds some time (e.g., equivalent or comparable to the longest possible value of sCellDeactivationTimer).
      * Proposal 2 (Nokia, ZTE):
        + Proposal 2a (MTK): SCell activation delay requirements are applicable in Scenario A (CA with NR PCell and NR SCell) with any LBT type and in Scenario B and C (E-UTRAN-NR-U DC/SA NR-U) with LBT type 2C. Requirements are also applicable in all scenarios, if the UE does not experience any UL LBT failures during SCell activation/deactivation.
        + Proposal 2b: SCell activation delay requirements are applicable when sCellDeactivationTimer is not configured also in Scenarios B and C (EN-DC and SA) LBT types other than 2C.
      * Proposal 3 (ZTE): Relative requirements apply, regardless of whether or not the timer is configured.

Discussion

* + - * E///: If the timer is not configured, then there is not way to stop the Scell activation procedure from the network or UE perspectives.
      * MTK: Share the concern of no limit. Think that this applies to the case of UL LBT only. Prefer proposal 2a.
        + Nokia/Apple: UL LBT is the problem.
      * Nokia: Not clear what would happen if we say that the requirements do not apply
      * Apple: Agree with Proposal 1.
      * ZTE: Proposal 2 is a reasonable compromise for us
      * QC: Proposal 1a is a better compromise
      * Nokia: For Proposal 1a what is the UE behavior when the SCell activation delay exceeds some time (e.g., equivalent or comparable to the longest possible value of sCellDeactivationTimer)?
      * E///: suggest Proposal 1 + UE behavior is changed and it is FFS ; Proposal 1 + UE behavior is unchanged

Agreements

Applicability of SCell activation requirements when sCellDeactivationTimer is NOT configured

* + - * + Option 1 (E///, QC, Apple, Huawei/HiSilicon):

The SCell activation requirements for NR-U do not apply when the sCellDeactivationTimer is not configured, when the SCell activation delay exceeds some pre-defined time (e.g., equivalent or comparable to the longest possible value of sCellDeactivationTimer).

* + - * + Option 2 (Nokia, ZTE, MTK):

SCell activation delay requirements are applicable in Scenario A (CA with NR PCell and NR SCell) with any LBT type and in Scenario B and C (E-UTRAN-NR-U DC/SA NR-U) with LBT type 2C. Requirements are also applicable in all scenarios, if the UE does not experience any UL LBT failures during SCell activation/deactivation.

SCell activation delay requirements are applicable when sCellDeactivationTimer is not configured also in Scenarios B and C (EN-DC and SA) LBT types other than 2C.

* + - * + Option 3 (possible compromise solution):

SCell activation delay requirements are applicable in Scenario A (CA with NR PCell and NR SCell) with any LBT type and in Scenario B and C (E-UTRAN-NR-U DC/SA NR-U) with LBT type 2C. Requirements are also applicable in all scenarios, if the UE does not experience any UL LBT failures during SCell activation/deactivation.

For all other scenarios the SCell activation requirements for NR-U do not apply when the sCellDeactivationTimer is not configured, when the SCell activation delay exceeds some pre-defined time (e.g., equivalent or comparable to the longest possible value of sCellDeactivationTimer).

1st round email discussion conclusions

2nd round email discussion conclusions

================================================================================

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

**R4-2100769 Discussion on terminology for NR-U RRM requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101636 Discussion on terminology updates for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102518 On SSB availability to meet NR-U requirements in DRX**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On SSB availability to meet NR-U requirements in DRX

**Discussion:**

[report of discussion]

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

**R4-2102519 Terminology updates for NR-U in 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1726 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Terminology updates for NR-U in 38.133

**Discussion:**

[report of discussion]

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

**R4-2102520 Terminology updates for NR-U in 38.133**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1727 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Terminology updates for NR-U in 38.133

**Discussion:**

[report of discussion]

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

**R4-2102521 Terminology updates for NR-U in 36.133**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7045 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Terminology updates for NR-U in 36.133

**Discussion:**

[report of discussion]

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

**R4-2102522 Terminology updates for NR-U in 36.133**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7046 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Terminology updates for NR-U in 36.133

**Discussion:**

[report of discussion]

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

##### 7.1.5.2 RRC connection mobility control [NR\_unlic-Core]

**R4-2100050 Random access in NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2100051 [CR] Add Random Access requirements under NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1415 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101100 [CR] Add Random Access requirements under NR-U (Cat A)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1557 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

Cat A CR corresponding to R4-2100051.

**Discussion:**

[report of discussion]

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

**R4-2101424 Remaining open issues on connection mobility control in NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the remaining open issues on the connection mobility control in NR-U, that is, random access procedure and maximum SI acquisition time.

**Discussion:**

[report of discussion]

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

**R4-2101425 CR: Introduction of random access requirements with CCA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1601 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR provides random access procedure with CCA.

**Discussion:**

[report of discussion]

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

**R4-2101426 CR: Introduction of random access requirements with CCA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1602 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR provides random access procedure with CCA.

**Discussion:**

[report of discussion]

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

**R4-2101637 Discussion on remaining issues for random access for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102920 Random Access requirements in NR-U**

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

**Abstract:**

In this paper, we discuss Random Access requirements in NR-U

**Discussion:**

[report of discussion]

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

##### 7.1.5.3 SCell activation/deactivation (delay and interruption) [NR\_unlic-Core]

**R4-2100065 Remaining issues in SCell activation under NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2101130 SCell (de)activation requirement applicability when sCellDeactivationTimer is not configured**

*Type: discussion For: Discussion  
 Source: Nokia*

**Abstract:**

Discussion and LS text proposal about requirement applicability when sCellDeactivationTimer is not configured.

**Discussion:**

[report of discussion]

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

**R4-2101638 CR on requirement maintenance for SCell activation and deactivation for NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1628 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101639 CR on requirement maintenance for SCell activation and deactivation for NR-U**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1629 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101640 Discussion on remaining issues for SCell activation and deactivation for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102515 On remaining issues for SCell activation in NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On remaining issues for SCell activation in NR-U

**Discussion:**

[report of discussion]

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

**R4-2102516 Updates in SCell activation in NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1724 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Updates in SCell activation in NR-U

**Discussion:**

[report of discussion]

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

**R4-2102517 Updates in SCell activation in NR-U**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1725 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Updates in SCell activation in NR-U

**Discussion:**

[report of discussion]

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

**R4-2102919 Interruptions during SCell activation in NR-U**

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

**Abstract:**

In this paper, we discuss remaining open issues interruptions during Scell activation in NR-U

**Discussion:**

[report of discussion]

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

**R4-2102922 CR on Interruptions during Scell activation in NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1791 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

The CR updates clause 8.3A based on agreements related to interruptions during Scell activation requirements.

**Discussion:**

[report of discussion]

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

**R4-2102923 CR on Interruptions during Scell activation in NR-U**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1792 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

The CR updates clause 8.3A based on agreements related to interruptions during Scell activation requirements.

**Discussion:**

[report of discussion]

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

##### 7.1.5.4 Active TCI state switching [NR\_unlic-Core]

**R4-2102720 CR on Active TCI state switching for NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1743 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102721 CR on Active TCI state switching for NR-U (cat A)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1744 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.1.5.5 RLM [NR\_unlic-Core]

**R4-2102512 On remaining issues for RLM in NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On remaining issues for RLM in NR-U

**Discussion:**

[report of discussion]

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

**R4-2102513 Updates in RLM requirements for NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1722 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Updates in RLM requirements for NR-U

**Discussion:**

[report of discussion]

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

**R4-2102514 Updates in RLM requirements for NR-U**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1723 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Updates in RLM requirements for NR-U

**Discussion:**

[report of discussion]

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

##### 7.1.5.6 Beam management [NR\_unlic-Core]

**R4-2100063 [CR] UE behavior when cannot transmit ACK due to LBT failure for MAC-CE deactivation**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1419 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2100064 [CR] UE behavior when cannot transmit ACK due to LBT failure for MAC-CE deactivation (Cat A)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1420 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2100066 [CR] UE behavior when cannot transmit ACK due to LBT failure for MAC-CE deactivation**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1421 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101427 Remaining open issues on beam management in NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the remaining open issues on beam management in NR-U.

**Discussion:**

[report of discussion]

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

**R4-2101428 CR: Beam management requirements with CCA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1603 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR updates the specification of BFD/CBD and L1-RSRP reporting with CCA

**Discussion:**

[report of discussion]

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

**R4-2101429 CR: Beam management requirements with CCA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1604 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This CR updates the specification of BFD/CBD and L1-RSRP reporting with CCA

**Discussion:**

[report of discussion]

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

##### 7.1.5.7 Measurement requirements [NR\_unlic-Core]

**R4-2100191 On RSSI measurement in NR-U**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100510 Remaining issues on intra and inter frequency measurements under NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2100770 Discussion on measurement requirements for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2101641 CR on measurement requirements for NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1630 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101642 CR on measurement requirements for NR-U**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1631 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101643 Discussion on measurement requirements for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102526 RSSI measurement bandwidth**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

RSSI measurement bandwidth

**Discussion:**

[report of discussion]

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

##### 7.1.5.8 Measurement capability and reporting criteria [NR\_unlic-Core]

**R4-2102237 Maintenance CR for NR-U core requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1691 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Maintenance CR including changes to the core NR-U requirements.

**Discussion:**

Session chair: moved from AI 7.1.5.1

[report of discussion]

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

**R4-2102238 Maintenance CR for NR-U core requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1692 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Maintenance CR including changes to the core NR-U requirements.

**Discussion:**

Session chair: moved from AI 7.1.5.1

[report of discussion]

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

##### 7.1.5.9 Timing [NR\_unlic-Core]

**R4-2100062 Discussions on UE transmit timing and reference cell under NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2100188 On reference cell availability for NR-U**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100189 CR on reference cell availability for NR-U R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1451 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100190 CR on reference cell availability for NR-U R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1452 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100771 Discussion on timing requirements for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2101644 CR on timing requirements for NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1632 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101645 CR on timing requirements for NR-U**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1633 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101646 Discussion on timing requirements for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102646 On UE transmit timing under DL LBT failure in reference cell**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper discusses open issues on timing

**Discussion:**

[report of discussion]

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

##### 7.1.5.10 Other requirements [NR\_unlic-Core]

**R4-2101014 On PL-RS switch and CGI reading for NR-U**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101131 Random access requirements in NR-U**

*Type: discussion For: Discussion  
 Source: Nokia*

**Abstract:**

Discussion about random access requirements for 2-step and 4-step RACH for NR-U.

**Discussion:**

[report of discussion]

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

**R4-2101132 CR to 38.133 - Introducing NR-U random access requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1558 Cat: B (Rel-16)  
  
 Source: Nokia*

**Abstract:**

CR to introduce RA requirements for 2-step and 4-step RACH.

**Discussion:**

[report of discussion]

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

**R4-2102724 CR on PSCell Addition requirements for NR-U**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1747 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102725 CR on PSCell Addition requirements for NR-U (cat A)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1748 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102823 CR to 38.133 - Introducing NR-U random access requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1774 Cat: A (Rel-17)  
  
 Source: Nokia*

**Discussion:**

[report of discussion]

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

**R4-2102641 Analysis of impact of RA with CCA on RRM requirements in NR-U**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper discusses impact on NR-U requirements when 2-step and 4-step RA subject to CCA are used

**Discussion:**

Session chair: moved from AI 7.1.5.2

[report of discussion]

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

**R4-2102642 Applicability of RA with CCA on RRM requirements in NR-U in 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1738 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR on applicability of 2-step and 4-step RA subject to CCA to NR-U RRM requirements in 38.133

**Discussion:**

Session chair: moved from AI 7.1.5.2

[report of discussion]

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

**R4-2102643 Applicability of RA with CCA on RRM requirements in NR-U in 38.133**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1739 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR on applicability of 2-step and 4-step RA subject to CCA to NR-U RRM requirements in 38.133

**Discussion:**

Session chair: moved from AI 7.1.5.2

[report of discussion]

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

**R4-2102644 Applicability of RA with CCA on RRM requirements in NR-U in 36.133**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7049 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR on applicability of 2-step and 4-step RA subject to CCA to NR-U RRM requirements in 36.133

**Discussion:**

Session chair: moved from AI 7.1.5.2

[report of discussion]

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

**R4-2102645 Applicability of RA with CCA on RRM requirements in NR-U in 36.133**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7050 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR on applicability of 2-step and 4-step RA subject to CCA to NR-U RRM requirements in 36.133

**Discussion:**

Session chair: moved from AI 7.1.5.2

[report of discussion]

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

#### 7.1.6 RRM perf. requirements (38.133) [NR\_unlic-Perf]

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**Email discussion: [98e][206] NR\_unlic\_RRM\_2**

**R4-2103445 Email discussion summary: [98e][206] NR\_unlic\_RRM\_2***Type: other For: Information  
Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session (January 26, 2021)

Issue 1-1-3: SCS for data and SSB

* Option 1: Configure the same SCS for data and SSB.
* Option 2: Allow configuration of different SCS for SSB and data.

Discussion:

MTK: Option 1 is more simple and typical case

E///: Option 1

Agreement: Configure the same SCS for data and SSB.

Issue 1-1-4: Cell configuration SCS and channel bandwidth on carrier frequency with CCA

* Option 1 (Huawei?):
  + 15 kHz SSB SCS with 20 MHz bandwidth
* Option 2 (Nokia):
  + NR with CCA 15 kHz SSB SCS, 20 MHz bandwidth, TDD duplex mode
  + NR with CCA 30 kHz SSB SCS, 40 MHz bandwidth, TDD duplex mode
* Option 3 (Ericsson, Mediatek, QC)
  + RAN4 define NR-U RRM test cases with SCS=30kHz for both SSB and data transmission.
  + FFS bandwidths

Discussion

MTK: Option 3. 40MHz BW.

QC, E///: Option 3 is ok.

Agreement

* + RAN4 define NR-U RRM test cases with SCS=30kHz for both SSB and data transmission and 40 MHz bandwidth.

Issue 1-2-1: Differentiation between FBE and LBE

* Option 1 (Ericsson): If needed, test parameter values for FBE and LBE (e.g., signaling-related) are specified in the same test case (a note to clarify their applicability can be added, if needed).
  + For PCCA, it is the actual value that matters, there is no need to call it “FBE” or “LBE”; if needed, multiple PCCA values can be specified in the same test.
* Option 2 (Qualcomm): Define separate test cases for LBE and FBE whenever an LBT failure dependent requirement is tested.

Discussion

QC: Ok with E/// proposal without sub-bullet

Agreement: If needed, test parameter values for FBE and LBE (e.g., signaling-related) are specified in the same test case (a note to clarify their applicability can be added, if needed).

Issue 1-2-2: General approach for DL LBT/CCA models

How should the DL LBT models be defined?

* Option 1: Describe LBT models as a random process defined
* Option 2 (Huawei): Consider the LBT model as a repetitive pattern of n available SSBs for every m SSB occasions.
* Option 3 (Ericsson): For NR-U, define a parameter for CCA success probability, PCCA, to model the probability of successful attempt for acquiring the channel and transmitting the necessary signals.

Discussion

Ericsson: There are two approaches – deterministic and probabilistic. For NR we suggest to adjust the existing LTE approach.

Huawei: For LAA we use probability model. In case of using probabilistic model, then we cannot guarantee a specific UE behavior for each individual test. Test equipment vendors feedback may be required.

E///: Probability-based model was already used in LTE. To guarantee failure we can set the failure probability to 100%.

MTK: we can have a special approach for special test cases.

Agreement:

DL LBT modelling procedures

Option 1: Probabilistic model. Define a parameter for CCA success probability, PCCA, to model the probability of successful attempt for acquiring the channel and transmitting the necessary signals.

Option 2: Deterministic LBT pattern with a repetitive pattern of n available SSBs for every m SSB occasions

Option 1 approach is used as a baseline approach. Option 2 can be used for selected test cases to guarantee proper UE behavior.

Issue 1-2-3: General approach for defining parameters of LBT models

How should the parameters of DL LBT models be defined?

* Option 1 (Ericsson): The probability parameter PCCA is not a single fixed value in the model but a variable; the value(s) are configured to a relevant setting in each test. The specific PCCA values should be defined among cell-specific test parameters in each test case (the access probability can be different at different BS locations). The CCA model only specifies possible values for PCCA. The possible values for PCCA may be defined as
  + 1): The CCA model specifies a continuous range of possible values (one or more specific values from the range are configured in each test), e.g., PCCA Î[0%, 100%], or
  + 2): The CCA model specifies a discrete set of possible values (one or more specific values from the set are chosen in each test).
* Option 2: Common parameters should be defined for all test cases.

Discussion

Apple: what does “the access probability can be different at different BS locations” mean?

E///: there may be some differentiation for PCell and SCell

MTK, QC, Nokia: we prefer to still have a limited subset of values

E///: agree

Agreement: Probabilistic DL LBT model

* The probability parameter PCCA is not a single fixed value in the model but a variable; the value(s) are configured to a relevant setting in each test.
* The specific PCCA values should be defined among cell-specific test parameters in each test case.
* The CCA model specifies a discrete set of possible values
  + One or more specific values from the set are chosen in each test
  + One value can be chosen as a default one and will apply to most of test cases
* The set of values
  + Option 1: {0%, 25%, 50%, 75%, 100%}
  + Other options are not precluded

Issue 1-3-1a: DL LBT model for LBE operation

* Option 1 (Qualcomm, Nokia): DL-LBE-Model 1:
  + For LBE test cases in non DRX: RAN4 to adopt the following DL LBT model: 1) Define a probability equal to P1 for the transmission of the DRS in the first candidate position. 2) In case of LBT failure for transmission in the first candidate position, define a probability equal to P2 for the transmission in the second candidate position for a given SSB index.
* Option 2 (Ericsson): DL-LBE-Model 2:
  + At least at a low Es/Iot (e.g., Es/Iot<-6 dB), the probability of CCA success is higher for the semi-static channel occupancy compared to that for dynamic channel occupancy:
    - PCCA,semi-static,i > PCCA,dynamic,I, when Es/Iot<X,
    - PCCA,semi-static,i = PCCA,dynamic,I, when Es/Iot≥X,
    - where X=TBD (e.g., X=-6 dB).

Discussion

Nokia: what are the benefits of Option 2?

QC: we agree with E/// proposal that “the probability of CCA success is higher for the semi-static channel occupancy compared to that for dynamic channel occupancy”

E///: Option 2 is simpler since Option 1 has conditional probability

QC: for LBE we agreed to monitor 2 positions and we don’t need a single probability

HW: for Option 2, does it mean that we’ll transmit SSB only in the 1st candidate position with certain probability?

E///: For Option 1 the probability of the 2nd SSB transmission is conditional and it is more difficult to control it. In our model we have separate probabilities for the first and second conditions

Agreement:

DL LBT model for LBE and FBE operation:

1) Define a probability equal to P1 for the transmission of the DRS in the first candidate position.

2) In case of LBT failure for transmission in the first candidate position, define a probability equal to P2 for the transmission in the second candidate position for a given SSB index.

Different probabilities can be used for LBE and FBE operation

Note: in case significant issues with this model are identified then the model with independent probabilities for LBT failure can be considered

1st round email discussion conclusions

2nd round email discussion conclusions

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

**R4-2101647 Discussion on RRM performance requirements for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2101648 Discussion on RRM test configurations for NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102523 Draft Big CR: Introduction of Rel-16 NR-U RRM performance requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

Draft Big CR: Introduction of Rel-16 NR-U RRM performance requirements

**Discussion:**

[report of discussion]

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

**R4-2102524 Updated test case list for NR-U**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Updated test case list for NR-U

**Discussion:**

[report of discussion]

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

**R4-2102525 NR-U test cases structure**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

NR-U test cases structure

**Discussion:**

[report of discussion]

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

**R4-2102921 Performance requirements in NR-U**

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

**Abstract:**

In this paper, we discuss the various topics on performance requirements in NR-U

**Discussion:**

[report of discussion]

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

##### 7.1.6.2 Common RRM test configuration [NR\_unlic-Perf]

**R4-2100772 Discussion on general test setting for NR-U test cases**

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

**Discussion:**

[report of discussion]

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

**R4-2100834 Configurations for NR-U RRM test cases**

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

**Discussion:**

[report of discussion]

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

**R4-2101133 Discussion on NR-U RRM test configurations**

*Type: discussion For: Discussion  
 Source: Nokia*

**Abstract:**

Discussion about LBT model and other details of test configurations for NR-U.

**Discussion:**

[report of discussion]

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

**R4-2101430 Common test parameters for NR-U RRM tests**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the RMC used for NR-U RRM test cases.

**Discussion:**

[report of discussion]

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

**R4-2101431 Draft CR: RMC for NR-U test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

This draft CR define RMCs used for NR-U RRM test cases.

**Discussion:**

[report of discussion]

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

##### 7.1.6.3 Test cases [NR\_unlic-Perf]

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

**R4-2100773 Discussion on RRM test cases in NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2100833 Scope of test cases for NR-U**

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

**Abstract:**

This paper discusses the planned scope of NR-U test cases with respect to the potential updates in core requirements.

**Discussion:**

[report of discussion]

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

**R4-2101134 NR-U RRM test case list updates**

*Type: discussion For: Discussion  
 Source: Nokia*

**Abstract:**

Proposal for updates in the NR-U test case list.

**Discussion:**

[report of discussion]

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

**R4-2102527 On CCA model in NR-U test cases**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On CCA model in NR-U test cases

**Discussion:**

[report of discussion]

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

**R4-2102528 CCA model in NR-U test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

CCA model in NR-U test cases

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.2 RRC IDLE, cell re-selection [NR\_unlic-Perf]

**R4-2100839 On test cases for cell reselection under NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102243 Introduction of NR-U cell reselection tests**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1693 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This CR introduces cell reselection test cases for NR-U.

**Discussion:**

[report of discussion]

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

**R4-2102244 Discussions on cell reselection test cases for NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we provide views on testing of the reselection requirements for the agreed test cases.

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.3 HO delay and interruptions [NR\_unlic-Perf]

**R4-2100840 On test cases for handover under NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2101135 Draft TC E-UTRAN - NR-U Handover**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia*

**Abstract:**

First draft pf test case for E-UTRAN - NR-U handover.

**Discussion:**

[report of discussion]

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

**R4-2101649 Draft CR of test cases for HO delay and interruption for NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102242 Discussions on handover test cases for NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss testing of handover requirements for NR-U.

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.4 RRC Re-establishment [NR\_unlic-Perf]

**R4-2101136 Draft TC RRC re-establishment with CCA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia*

**Abstract:**

First draft of test cases for RRC re-establishment in NR-U.

**Discussion:**

[report of discussion]

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

**R4-2102647 RRC re-establishment tests for NR-U**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper describes test case on RRC re-establishment in NR-U

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.5 RRC Connection Release with Redirection [NR\_unlic-Perf]

**R4-2100842 Test cases for RRC Connection Release with Redirection in NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2101650 Draft CR of test cases for RRC release with redirection for NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102648 RRC connetion release with re-direction tests for NR-U**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper describes test case on RRC re-direction in NR-U

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.6 Timing (transmit timing and TA) [NR\_unlic-Perf]

**R4-2100774 Introduction of test cases for UE transmit timing requirements with CCA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100843 Test cases for timing in NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102649 Analysis of UE timing tests for NR-U**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper describes test cases on UE transmit timing and UE timing advance in NR-U

**Discussion:**

[report of discussion]

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

**R4-2102650 UE timing tests for NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

The CR on test cases on UE transmit timing and UE timing advance in NR-U

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.7 BWP switching delay and interruptions [NR\_unlic-Perf]

**R4-2100841 On test cases for BWP switching delay and interruptions under NR-U**

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

**Discussion:**

[report of discussion]

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

**R4-2102651 Analysis of test cases on BWP switching with consistent UL LBT failures**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper describes test cases on BWP swiching with consistent UL LBT failures in NR-U

**Discussion:**

[report of discussion]

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

**R4-2102652 Test cases on BWP switching with consistent UL LBT failures**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

The CR on test cases on BWP swiching with consistent UL LBT failures in NR-U

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.8 PSCell addition/release (delay and interruption) [NR\_unlic-Perf]

**R4-2100838 Test cases for PSCell addition and release**

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

**Discussion:**

[report of discussion]

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

**R4-2101651 Draft CR of test cases for PSCell addition and release for NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102370 On PSCell addition release and TCI state activation TCs**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on TCs for PSCell addition/release and for TCI state activation.

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.9 Interruptions [NR\_unlic-Perf]

**R4-2102368 On SCell interruptions and SCell (de)activation test cases**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on interruption and SCell (de)activation test cases for NR-U

**Discussion:**

[report of discussion]

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

**R4-2102369 DraftCR Introduction of NR-U SCell interruption and SCell (de)activation tests**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

Interruptions and (de)activation test cases for SCells in NR-U

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.10 RLM [NR\_unlic-Perf]

**R4-2102529 On RLM test cases**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On RLM test cases

**Discussion:**

[report of discussion]

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

**R4-2102530 RLM test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

RLM test cases

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.11 Beam management [NR\_unlic-Perf]

**R4-2101432 Test cases on link recovery and L1-RSRP reporting in NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the test cases for beam failure recovery and L1-RSRP reporting in NR-U.

**Discussion:**

[report of discussion]

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

**R4-2101433 Draft CR: test cases for beam management in NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

This draft CR introduces the test cases for bean failure recovery and L1-RSRP reporting in NR-U.

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.12 Intra-frequency, inter-frequency and inter-RAT measurement requirements [NR\_unlic-Perf]

**R4-2100775 Introduction of test cases for Accuracy for NR-U inter-frequency SS-RSRP measurements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100776 Introduction of test cases for L1-RSRP measurement accuracy with CCA serving cell**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100836 Test cases for intra and inter frequency and inter-RAT measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101137 Draft TC NR-U inter-frequency measurements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia*

**Abstract:**

First draft of test cases for NR-U inter-frequency measurements.

**Discussion:**

[report of discussion]

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

**R4-2101652 Draft CR of test cases for inter-RAT measurement for NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102531 On NR-U measurements test cases**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On NR-U measurements test cases

**Discussion:**

[report of discussion]

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

**R4-2102532 NR-U RRM, SFTD, RSSI, and CO measurements test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

NR-U measurements test cases

**Discussion:**

[report of discussion]

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

###### 7.1.6.3.13 Accuracy requirements for NR-U intra-frequency, inter-frequency and inter-RAT measurements [NR\_unlic-Perf]

**R4-2100837 Test cases for intra and inter frequency and inter-RAT measurement accuracy**

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

**Discussion:**

[report of discussion]

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

**R4-2101015 TCs for RSSI and CO measurement accuracy in NR-U R16**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101653 Draft CR of test cases for intra-frequency measurement accuracy for NR-U**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102371 On TC for NR-U Inter-RAT SFTD accuracy**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on test case for E-UTRAN - NR inter-RAT SFTD accuracy.

**Discussion:**

[report of discussion]

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

**R4-2102372 DraftCR 38.133 NR-U Inter-RAT SFTD accuracy TC**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

Test case for E-UTRAN - NR inter-RAT SFTD accuracy.

**Discussion:**

[report of discussion]

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

### 7.2 NR mobility enhancement [NR\_Mob\_enh]

#### 7.2.1 RRM requirements maintenance (38.133) [NR\_Mob\_enh-Core/Perf]

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**Email discussion: [98e][207] NR\_Mob\_enh\_RRM**

**R4-2103446 Email discussion summary: [98e][207] NR\_Mob\_enh\_RRM***Type: other For: Information  
Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2101009 CR on maintenance for DAPS handover (R16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1540 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101010 CR on maintenance for DAPS handover (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1541 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101204 TDD UL-DL and DL-UL switching in DAPS handover**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Further clarification on DL-to-UL and UL-to-DL switching time

**Discussion:**

[report of discussion]

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

**R4-2101205 CR on TS38.133 for dual active protocol stack handover**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1575 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Add conditions for not expected to transmit / not expected to receive covering both source and target cell. Add autonomous interruption allowance if these conditions are unspecified.Correct Ntx-rx and Nrx-tx to 25600 Tc

**Discussion:**

[report of discussion]

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

**R4-2101206 CR on TS38.133 for dual active protocol stack handover**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1576 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Add conditions for not expected to transmit / not expected to receive covering both source and target cell. Add autonomous interruption allowance if these conditions are unspecified.Correct Ntx-rx and Nrx-tx to 25600 Tc

**Discussion:**

[report of discussion]

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

**R4-2101210 CR on TS38.133 for Pcell change**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1577 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101211 CR on TS38.133 for Pcell change**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1578 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101667 Discussion on sync conditions for intra-band DAPS handover**

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

**Discussion:**

[report of discussion]

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

**R4-2101668 CR on sync conditions for intra-band DAPS handover R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1640 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101669 CR on sync conditions for intra-band DAPS handover R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1641 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

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

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**Email discussion: [98e][208] 5G\_V2X\_NRSL\_RRM**

**R4-2103447 Email discussion summary: [98e][208] 5G\_V2X\_NRSL\_RRM***Type: other For: Information  
Source: Moderator (LG Electronics)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 7.3.4 RRM core requirements maintenance (38.133) [5G\_V2X\_NRSL-Core]

**R4-2101054 CR on V2X interruption**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1551 Cat: B (Rel-16)  
  
 Source: Mediatek Inc., LG Electronics, Qualcomm Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101055 CR on V2X interruption**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1552 Cat: A (Rel-17)  
  
 Source: Mediatek Inc., LG Electronics, Qualcomm Inc.*

**Discussion:**

[report of discussion]

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

**R4-2101788 CR to 38.133 correction on reselection of V2X synchronization reference source requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1671 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101789 CR to 38.133 correction on reselection of V2X synchronization reference source requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1672 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

#### 7.3.5 RRM perf. requirements (38.133) [5G\_V2X\_NRSL-Perf]

**R4-2100638 Big CR-Introduction of NR V2X RRM performance requirements (Rel-16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1506 Cat: B (Rel-16)  
  
 Source: LG Electronics*

**Abstract:**

It is a big CR to introduce NR V2X RRM performance requirements based on endorsed Draft big CR R4-2017105 in RAN4#97e meeting and additional changes .

**Discussion:**

[report of discussion]

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

**R4-2100639 Big CR-Introduction of NR V2X RRM performance requirements (Rel-17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1507 Cat: A (Rel-17)  
  
 Source: LG Electronics*

**Abstract:**

It is a Cat.A big CR to introduce NR V2X RRM performance requirements based on endorsed Draft big CR R4-2017105 in RAN4#97e meeting and additional changes for Rel-17.

**Discussion:**

[report of discussion]

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

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

##### 7.3.5.2 L1 SL-RSRP measurement accuracy [5G\_V2X\_NRSL-Perf]

##### 7.3.5.3 Test cases [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.1 UE transmit timing [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.2 Initiation/Cease of SLSS Transmission [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.3 Selection / Reselection of V2X Synchronization Reference Source [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.4 L1 SL-RSRP measurements [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.5 Congestion control measurements [5G\_V2X\_NRSL-Perf]

**R4-2101056 Remaining issues on congestion control test case**

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

**Discussion:**

[report of discussion]

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

**R4-2101057 draftCR on congestion control test case**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

###### 7.3.5.3.6 Interruptions [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.7 Resource Pre-emption [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.8 Resource Re-evaluation [5G\_V2X\_NRSL-Perf]

###### 7.3.5.3.9 Others [5G\_V2X\_NRSL-Perf]

### 7.4 Integrated Access and Backhaul for NR [NR\_IAB]

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**Email discussion: [98e][209] NR\_IAB\_RRM**

**R4-2103448 Email discussion summary: [98e][209] NR\_IAB\_RRM***Type: other For: Information  
Source: Moderator (ZTE)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 7.4.4 RRM core requirements maintenance [NR\_IAB-Core]

**R4-2100041 On requirements involving gap patterns for IAB-MTs**

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

**Discussion:**

[report of discussion]

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

**R4-2100042 [CR] IAB Core Maintenance**

*Type: CR For: Agreement  
 38.174 v16.1.0 CR-0007 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101626 Discussion on RRM core requirements maintenance for IAB**

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

**Discussion:**

[report of discussion]

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

**R4-2101627 CR on RRM core requirements maintenance for MG for IAB**

*Type: CR For: Agreement  
 38.174 v16.1.0 CR-0008 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102487 discussion on measurement gaps for IAB RRM requirements**

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

**Abstract:**

discussion on measurement gaps for IAB RRM requirements

**Discussion:**

[report of discussion]

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

**R4-2102488 CR on removing gap aspects from IAB-MT RRM requirements**

*Type: CR For: Agreement  
 38.174 v16.1.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CR on removing gap aspects from IAB-MT RRM requirements

**Discussion:**

[report of discussion]

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

**R4-2102635 Analysis of measurement gaps for LA IAB-MT**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper analyze gaps for IAB

**Discussion:**

[report of discussion]

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

**R4-2102636 Measurement gaps for Local Area IAB-MT**

*Type: CR For: Agreement  
 38.174 v16.1.0 CR-0010 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR defines one gap for BM and RLM requirements for LA IAB-MT

**Discussion:**

[report of discussion]

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

#### 7.4.5 RRM perf. requirements [NR\_IAB-Perf]

**R4-2102936 IAB-RRM Conformance Testing**

*Type: discussion For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Discussion:**

[report of discussion]

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

##### 7.4.5.1 General [NR\_IAB-Perf]

**R4-2100047 Scope and work split of test cases for IAB-MTs**

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

**Discussion:**

[report of discussion]

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

**R4-2100253 On general aspects of IAB-MT test cases**

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

**Discussion:**

[report of discussion]

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

**R4-2101628 Discussion on RRM test cases for IAB**

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

**Discussion:**

[report of discussion]

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

**R4-2101629 draftCR to introduce test configurations for IAB-MT RRM performance test**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102489 discussion on IAB RRM test cases**

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

**Abstract:**

Discussion the RRM test cases for IAB.

**Discussion:**

[report of discussion]

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

**R4-2102640 General principles for IAB RRM test cases**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper discusses some general aspects of RRM tests for IAB

**Discussion:**

[report of discussion]

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

##### 7.4.5.2 Test cases [NR\_IAB-Perf]

**R4-2100046 [draft CR] Test cases for timing for IAB-MT**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101630 draftCR to introduce test cases for RRC release with redirection for IAB-MT**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102490 draftCR on IAB RLM test cases**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Introduce the RLM test cases for IAB-MTs.

**Discussion:**

[report of discussion]

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

**R4-2102637 Big CR: IAB-MT RRM test cases in 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

The big darft CR on spec structure for IAB-MT RRM test cases in annex of TS 38.174. It was endorsed at RAN#97e

**Discussion:**

[report of discussion]

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

**R4-2102638 Analysis of RRC re-establishment tests for LA IAB-MT**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The document describes test cases to verify RRC re-establishment requirements for IAB-MT local areas classe

**Discussion:**

[report of discussion]

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

**R4-2102639 RRC re-establishment tests for LA IAB-MT**

*Type: draftCR For: Endorsement  
 38.174 v16.1.0  
 Source: Ericsson*

**Abstract:**

The darft CR on IAB-MT RRM test cases on RRC re-establishment for IAB-MT LA class

**Discussion:**

[report of discussion]

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

### 7.5 Multi-RAT Dual-Connectivity and Carrier Aggregation enhancements [LTE\_NR\_DC\_CA\_enh]

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**Email discussion: [98e][210] LTE\_NR\_DC\_CA\_RRM\_1**

**R4-2103449 Email discussion summary: [98e][210] LTE\_NR\_DC\_CA\_RRM\_1***Type: other For: Information  
Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**Email discussion: [98e][211] LTE\_NR\_DC\_CA\_RRM\_2**

**R4-2103450 Email discussion summary: [98e][211] LTE\_NR\_DC\_CA\_RRM\_2***Type: other For: Information  
Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 7.5.2 RRM core requirements maintenance (38.133/36.133) [LTE\_NR\_DC\_CA\_enh-Core]

##### 7.5.2.1 Early Measurement reporting [LTE\_NR\_DC\_CA\_enh-Core]

**R4-2102252 Correction to Idle Mode CA/DC Measurements for Inactive mode**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1698 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102253 Correction to Idle Mode CA/DC Measurements for Inactive mode**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1699 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102744 Discussion on remaining issues in EMR requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102745 CR on EMR requirement maintenance in 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1758 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102746 CR on EMR requirement maintenance in 38.133 R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1759 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102747 CR on EMR requirements in 36.133**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7064 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102748 CR on EMR requirements in 36.133 R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7065 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.5.2.2 Efficient and low latency serving cell configuration, activation and setup [LTE\_NR\_DC\_CA\_enh-Core]

**R4-2100227 Activation time in direct SCell activation**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100228 CR on activation time in direct SCell activation**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1461 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100229 CR on activation time in direct SCell activation (R17)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1462 Cat: A (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101012 CR on activation time in direct SCell activation (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1543 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101212 Discussion on direct Scell activation and dormancy Scell**

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

**Discussion:**

[report of discussion]

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

**R4-2101213 CR on TS38.133 for direct Scell activation**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1579 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101214 CR on TS38.133 for direct Scell activation**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1580 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101377 Remaining issues for Scell dormancy RRM requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101388 CR for adding capability D’ for SCell dormancy BWP switch requirement**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1593 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101389 CR for adding capability D’ for SCell dormancy BWP switch requirement**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1594 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102254 CR clarifying the UE measurement requirements for an SCell with dormant BWP**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1700 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102255 CR clarifying the UE measurement requirements for an SCell with dormant BWP**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1701 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102256 Discussion related to multiple SCell dormancy BWP switch**

*Type: discussion For: Approval  
 38.133 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102257 Correction to simultaneous DCI based BWP switch delay on multiple CCs**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1702 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102258 Correction to simultaneous DCI based BWP switch delay on multiple CCs**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1703 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102351 On incremental delay for dormancy switching on multiple CCs**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Discussion on separate capability on incremental delay for SCell dormancy switching on multiple CCs.

**Discussion:**

[report of discussion]

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

**R4-2102352 CR 38.133 (8.2 8.6) Corrections related to SCell dormancy switching**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1718 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Adding separate capability for incremental delay for SCell dormancy switching on multiple CCs. Removal of brackets for interruption due to RRM measurements on dormant SCell.

**Discussion:**

[report of discussion]

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

**R4-2102353 CR 38.133 (8.2 8.6) Corrections related to SCell dormancy switching**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1719 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Adding separate capability for incremental delay for SCell dormancy switching on multiple CCs.

**Discussion:**

[report of discussion]

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

**R4-2102366 CR 36.133 Removal of brackets for SCell dormancy**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7041 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Removal of brackets for interruption due to RRM measurements on dormant SCell.

**Discussion:**

[report of discussion]

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

**R4-2102367 CR 36.133 Removal of brackets for SCell dormancy**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7042 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Removal of brackets for interruption due to RRM measurements on dormant SCell.

**Discussion:**

[report of discussion]

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

**R4-2102749 CR on SCell dormancy switching**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1760 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102750 CR on SCell dormancy switching R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1761 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102881 Cat-F CR to Removal of brackets for SCell Dormancy and Simultaneous DCI based BWP switch delay on multiple CCs in Rel-16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1785 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102882 Cat-A CR to Removal of brackets for SCell Dormancy and Simultaneous DCI based BWP switch delay on multiple CCs in Rel-17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1786 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102883 Cat-F CR to Removal of brackets for SCell Dormancy and Simultaneous DCI based BWP switch delay on multiple CCs in Rel-16 LTE**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7080 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102884 Cat-A CR to Removal of brackets for SCell Dormancy and Simultaneous DCI based BWP switch delay on multiple CCs in Rel-17 LTE**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7081 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

#### 7.5.3 RRM perf. requirements (38.133) [LTE\_NR\_DC\_CA\_enh-Perf]

##### 7.5.3.1 Early Measurement reporting [LTE\_NR\_DC\_CA\_enh- Perf]

###### 7.5.3.1.1 Accuracy requirements [LTE\_NR\_DC\_CA\_enh-Perf]

**R4-2102262 Draft Big CR: Introduction of Rel-16 MR-DC EMR RRM performance requirements (TS 38.133)**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102263 Draft CR for Removal of brackets for idle mode CA measurement accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102751 draftCR on accuracy requirements for EMR 38.133**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102752 CR to introduce accuracy requirements for EMR 36.133**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7066 Cat: B (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102753 CR to introduce accuracy requirements for EMR 36.133 R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7067 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

###### 7.5.3.1.2 Test cases [LTE\_NR\_DC\_CA\_enh-Perf]

**R4-2100232 Test case for EMR with both PCell and target cell in FR1**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2102261 Draft CR for Idle Mode measurements of inter-frequency CA candidate cells for early reporting**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102264 Measurement Performance Requirements test for MR-DC**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102754 draftCR to introduce TC4 for EMR**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102885 Discussion on Cell Configuration for EMR Test Case**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

##### 7.5.3.2 Efficient and low latency serving cell configuration, activation and setup [LTE\_NR\_DC\_CA\_enh-Perf]

###### 7.5.3.2.1 Test cases for direct SCell activation [LTE\_NR\_DC\_CA\_enh-Perf]

**R4-2100230 Test case for Direct SCell Activation: EN-DC, NR spCell in FR1, SCell in FR1, SCell addition**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101073 Draft CR on TC for direct SCell activation during handover in NR SA for FR2**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: NEC*

**Abstract:**

TC for direct SCell activation during handover in NR SA for FR2 is added/specified

**Discussion:**

[report of discussion]

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

**R4-2101215 CR on TS38.133 for direct SCell activation of SCell in FR2 intra-band in ENDC mode (A.5.5.X)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1581 Cat: B (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101216 CR on TS38.133 for direct SCell activation of SCell in FR2 intra-band in ENDC mode (A.5.5.X)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1582 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2102260 Draft CR for NR FR1 Intra frequency handover with direct SCell activation**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102357 On TC3 for Direct SCell Activation**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on test cases for direct SCell activation

**Discussion:**

[report of discussion]

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

**R4-2102358 DraftCR 38.133 TC3 Direct SCell activation**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

TC3 for direct SCell activation

**Discussion:**

[report of discussion]

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

**R4-2102755 draftCR to introduce TC4 for direct SCell activation**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

###### 7.5.3.2.2 Test case for SCell Dormancy [LTE\_NR\_DC\_CA\_enh-Perf]

**R4-2100231 Test case for SCell Dormancy: EN-DC, NR spCell in FR1, SCell FR1, DCI 2\_6 within/after 3 OFDM symbols**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101074 Draft CR on TC for SCell dormancy in NR SA for FR1**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: NEC*

**Abstract:**

TC for SCell dormancy in NR SA for FR1 is specified

**Discussion:**

[report of discussion]

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

**R4-2101217 CR on TS38.133 for E-UTRAN – NR SCell FR1 dormant BWP switch with FR1 PSCell in non-DRX in synchronous EN-DC (A.4.5.X)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1583 Cat: B (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101218 CR on TS38.133 for E-UTRAN – NR SCell FR1 dormant BWP switch with FR1 PSCell in non-DRX in synchronous EN-DC (A.4.5.X)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1584 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2102259 Draft CR for test case 7 for Dormant SCell BWP switch delay**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2102359 On TCs 6 and 8 for SCell dormancy switching**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on test cases for SCell dormancy

**Discussion:**

[report of discussion]

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

**R4-2102360 DraftCR 38.133 TCs 6 and 8 SCell dormancy switching**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

TCs 6 and 8 for SCell dormancy

**Discussion:**

[report of discussion]

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

**R4-2102756 Further discussion on test for SCell dormancy**

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

**Discussion:**

[report of discussion]

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

**R4-2102757 draftCR to introduce TC3 for SCell dormancy**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102886 DraftCR on EN-DC NR SpCell in FR1 and 2 NR SCells in FR2 for Dormant SCell switch via DCI 2\_6 within and after 3 OFDM symbols**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102887 Test framework for SCell dormancy performance requirements**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

### 7.6 UE power saving in NR [NR\_UE\_pow\_sav]

#### 7.6.1 RRM requirements maintenance (38.133) [NR\_UE\_pow\_sav-Core/Perf]

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**Email discussion: [98e][212] NR\_UE\_pow\_sav\_RRM**

**R4-2103451 Email discussion summary: [98e][212] NR\_UE\_pow\_sav\_RRM***Type: other For: Information  
Source: Moderator (CATT)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100473 Discussion on remaining issues for UE power saving test case**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100482 Correction to cell reselection test case for UE Power saving**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1497 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100483 Correction to cell reselection test case for UE Power saving**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1498 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100727 CR on RRM test cases for NR UE power saving**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

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

**R4-2101383 CR for removing K2 for R16 UE power saving**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1589 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101384 CR for removing K2 for R16 UE power saving**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1590 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101385 CR for modifications on FR1 intra-frequency UE power saving test cases**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1591 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101386 CR for modifications on FR1 intra-frequency UE power saving test cases**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1592 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101624 Correction to relexed cell reselection requirements R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1626 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101625 Correction to relexed cell reselection requirements R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1627 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101834 Correction on inter-RAT E-UTRAN cells for UE configured with relaxed measurement criterion**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1673 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101835 Test case for cell reselection to FR2 intra-frequency NR case for UE configured with relaxed measurement**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1674 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101836 Test case for cell reselection to FR2 intra-frequency NR case for UE configured with relaxed measurement**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1675 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101881 Correction on inter-RAT E-UTRAN cells for UE configured with relaxed measurement criterion**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1690 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102245 Changes to cell reselection tests under power saving**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1694 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The cell reselection test cases contain square brackets which for the signal levels which are removed. Signal levels are checked and no need to further modify them.

**Discussion:**

[report of discussion]

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

**R4-2102246 Changes to cell reselection tests under power saving**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1695 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The cell reselection test cases contain square brackets which for the signal levels which are removed. Signal levels are checked and no need to further modify them.

**Discussion:**

[report of discussion]

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

### 7.7 NR Positioning Support [NR\_pos]

#### 7.7.1 RRM core requirements maintenance (38.133) [NR\_pos-Core]

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**Email discussion: [98e][213] NR\_pos\_RRM\_1**

**R4-2103452 Email discussion summary: [98e][213] NR\_pos\_RRM\_1***Type: other For: Information  
Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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##### 7.7.1.1 PRS-RSTD measurement requirements [NR\_pos-Core]

**R4-2100436 Discussion on PRS RSTD measurement requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100438 CR on PRS RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1477 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100468 CR on PRS RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1489 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101272 Discussion on NR PRS RSTD measurement report requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101526 Further discussion on maintenance for RSTD measurement requirement**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

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

**R4-2101776 Discussion on PRS RSTD measurement requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101779 CR to 38.133 correction to PRS RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1663 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101780 CR to 38.133 correction to PRS RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1664 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102290 On PRS-RSTD measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102298 Revision of PRS-RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1706 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102299 Revision of PRS-RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1707 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102539 On RSTD measurement requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On RSTD measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102540 RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1730 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

RSTD measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102541 RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1731 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

RSTD measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102548 Correction to CSSF for PRS measurements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1736 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction to CSSF for PRS measurements

**Discussion:**

[report of discussion]

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

**R4-2102758 Discussion on remaining issues for RSTD measurement requirements**

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

**Abstract:**

Rel-16

**Discussion:**

[report of discussion]

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

**R4-2102759 CR to update RSTD measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1762 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102760 CR to update RSTD measurement requirements R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1763 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102926 Correction to CSSF for PRS measurements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1793 Cat: A (Rel-17)  
  
 Source: Ericsson-LG Co., LTD*

**Discussion:**

[report of discussion]

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

**R4-2102934 On PRS-RSTD measurement period definition**

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

**Abstract:**

Discussion on aspects related to PRS-RSTD measurement period definition

**Discussion:**

[report of discussion]

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

##### 7.7.1.2 PRS-RSRP measurement requirements [NR\_pos-Core]

**R4-2101781 CR to 38.133 correction on PRS-RSRP measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1665 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101782 CR to 38.133 correction on PRS-RSRP measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1666 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102300 Revision of PRS-RSRP measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1708 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102301 Revision of PRS-RSRP measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1709 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102542 On PRS-RSRP measurement requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On PRS-RSRP measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102543 PRS-RSRP measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1732 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

PRS-RSRP measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102544 PRS-RSRP measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1733 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

PRS-RSRP measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102761 CR to update PRS-RSRP measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1764 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102762 CR to update PRS-RSRP measurement requirements R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1765 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.7.1.3 UE Rx-Tx time difference measurement requirements [NR\_pos-Core]

**R4-2100049 UE Rx-Tx measurements**

*Type: LS out For: Approval  
 to RAN1  
 Source: ZTE Corporation*

**Abstract:**

This discussion paper discusses issues related to UE Rx - Tx measurements and provides a draft LS to be sent to RAN1 for clarification on a definition in RAN1 specification.

**Discussion:**

[report of discussion]

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

**R4-2100437 Discussion on UE Rx-Tx time difference measurement requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100439 CR on UE Rx-Tx time difference measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1478 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100469 CR on UE Rx-Tx time difference measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1490 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101273 Discussion on NR UE RX-TX time difference measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101527 CR to TS 38.133 on UE Rx-Tx time difference measurements (section 9.9.4)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1608 Cat: F (Rel-16)  
  
 Source: OPPO*

**Discussion:**

[report of discussion]

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

**R4-2101528 Discussion on maintenance for UE Rx-Tx time difference measurements**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

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

**R4-2101777 Discussion on UE RX-TX timing difference measurement requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101783 CR to 38.133 correction on UE Rx-Tx time difference measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1667 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101784 CR to 38.133 correction on UE Rx-Tx time difference measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1668 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102291 On UE Rx-Tx measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102302 Revision of UE Rx-Tx measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1710 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102303 Revision of UE Rx-Tx measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1711 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

**R4-2102545 On UE Rx-Tx measurement requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On UE Rx-Tx measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102546 UE Rx-Tx measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1734 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

UE Rx-Tx measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102547 UE Rx-Tx measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1735 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

UE Rx-Tx measurement requirements

**Discussion:**

[report of discussion]

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

**R4-2102763 Discussion on remaining issues for UE Rx-Rx time difference measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102764 CR to update UE Rx-Tx time differnece measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1766 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102765 CR to update UE Rx-Tx time differnece measurement requirements R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1767 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.7.1.4 Other requirements [NR\_pos-Core]

**R4-2101529 Discussion on remaining issues for general PRS measurements**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

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

**R4-2101778 Discussion on CCSF for NR positioning measurements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101785 CR to 38.133 correction on CCSF for NR measurements for positioning**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1669 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101786 CR to 38.133 correction on CCSF for NR measurements for positioning**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1670 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102292 On general PRS measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102766 Discussion on measurement capability and MG for PRS measurement**

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

**Discussion:**

[report of discussion]

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

**R4-2102767 CR on CSSF and MG for PRS measurement 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1768 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102768 CR on CSSF and MG for PRS measurement 38.133 R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1769 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102769 CR to introduce new measurement gap patterns for positioning in 36.133**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7068 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102770 CR to introduce new measurement gap patterns for positioning in 36.133 R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7069 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

#### 7.7.2 RRM perf. requirements (38.133) [NR\_pos-Perf]

##### 7.7.2.1 General [NR\_pos-Perf]

**R4-2102549 Draft Big CR: Introduction of Rel-16 NR Positioning RRM performance requirements and test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson, Intel*

**Abstract:**

Draft Big CR: Introduction of Rel-16 NR Positioning RRM performance requirements and test cases

**Discussion:**

[report of discussion]

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

##### 7.7.2.2 UE requirements and test cases [NR\_pos-Perf]

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**Email discussion: [98e][214] NR\_pos\_RRM\_2**

**R4-2103453 Email discussion summary: [98e][214] NR\_pos\_RRM\_2***Type: other For: Information  
Source: Moderator (Intel Corporation)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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###### 7.7.2.2.1 Measurement accuracy requirements [NR\_pos-Perf]

7.7.2.2.1.1 PRS RSTD [NR\_pos-Perf]

**R4-2100440 Discussion on PRS RSTD accuracy requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100443 Link-level simulation results of PRS RSTD measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101274 Discussion on NR PRS RSTD measurement accuracy requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101787 Discussion on PRS RSTD accuracy requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102293 On PRS-RSTD measurement accuracy requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102312 Test structure and complexity for NR RSTD test cases**

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

**Discussion:**

[report of discussion]

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

**R4-2102550 On RSTD measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On RSTD measurement accuracy requirements

**Discussion:**

[report of discussion]

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

**R4-2102771 Discussion on accuracy requirements for RSTD measurement**

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

**Discussion:**

[report of discussion]

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

**R4-2102772 draftCR to introduce accuracy requirements for RSTD measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

7.7.2.2.1.2 PRS RSRP [NR\_pos-Perf]

**R4-2100061 [draft CR] Test cases for PRS-RSRP measurement accuracy**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2100441 Discussion on PRS RSRP accuracy requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100444 Link-level simulation results of PRS RSRP measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100446 CR on PRS-RSRP accuracy requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1479 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100470 CR on PRS-RSRP accuracy requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1491 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101275 Discussion on NR PRS RSRP measurement accuracy requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102551 On PRS-RSRP measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On PRS-RSRP measurement accuracy requirements

**Discussion:**

[report of discussion]

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

**R4-2102773 Discussion on accuracy requirements for PRS-RSRP measurement**

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

**Discussion:**

[report of discussion]

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

**R4-2102774 Further simulation results for PRS-RSRP**

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

**Discussion:**

[report of discussion]

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

7.7.2.2.1.3 UE Rx-Tx time difference [NR\_pos-Perf]

**R4-2100442 Discussion on UE Rx-Tx time difference accuracy requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100445 Link-level simulation results for UE Rx-Tx time difference measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101276 Discussion on NR UE RX-TX time difference measurement accuracy requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102294 On UE Rx-Tx measurement accuracy requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102552 On UE Rx-Tx measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On UE Rx-Tx measurement accuracy requirements

**Discussion:**

[report of discussion]

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

**R4-2102553 UE Rx-Tx measurement accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

UE Rx-Tx measurement accuracy requirements

**Discussion:**

[report of discussion]

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

**R4-2102775 Discussion on accuracy requirements for UE Rx-Tx time difference measurement**

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

**Discussion:**

[report of discussion]

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

###### 7.7.2.2.2 Test cases [NR\_pos-Perf]

**R4-2100447 CR on PRS configuration for test cases**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1480 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100449 Discussion on test cases for PRS based measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100471 CR on PRS configuration for test cases**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1492 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101277 Discussion on NR Positioning test cases configuration**

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

**Discussion:**

[report of discussion]

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

**R4-2101278 [draftCR] CR for PRS configurations for NR Pos RRM tests**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102295 On design of test cases for NR positioning**

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

**Discussion:**

[report of discussion]

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

**R4-2102554 On positioning test cases**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On positioning test cases

**Discussion:**

[report of discussion]

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

**R4-2102776 Discussion on RRM test case for UE positioning requirements**

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

**Discussion:**

[report of discussion]

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

###### 7.7.2.2.3 Measurement requirements [NR\_pos-Perf]

**R4-2100448 CR on test case for PRS-RSRP measurement requirements for FR2 in SA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1481 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100472 CR on test case for PRS-RSRP measurement requirements for FR2 in SA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1493 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101279 [draftCR] CR for the test case of RSTD measurement requirements reporting in SA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2102555 TC5 and TC6: UE Rx-Tx time difference measurement requirements for FR1 and FR2 in SA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

TC5 and TC6: UE Rx-Tx time difference measurement requirements for FR1 and FR2 in SA

**Discussion:**

[report of discussion]

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

**R4-2102777 draftCR to introduce TC for PRS-RSRP measurement requirements for FR1 in SA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

###### 7.7.2.2.4 Accuracy requirements [NR\_pos-Perf]

**R4-2102556 TC11 and TC12: UE Rx-Tx time difference measurement accuracy for FR1 and FR2 in SA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

TC11 and TC12: UE Rx-Tx time difference measurement accuracy for FR1 and FR2 in SA

**Discussion:**

[report of discussion]

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

**R4-2102778 draftCR to introduce TC for RSTD measurement accuracy for FR1 and FR2 in SA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

###### 7.7.2.2.5 Other [NR\_pos-Perf]

##### 7.7.2.3 gNB requirements [NR\_pos-Perf]

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**Email discussion: [98e][215] NR\_pos\_RRM\_3**

**R4-2103454 Email discussion summary: [98e][215] NR\_pos\_RRM\_3***Type: other For: Information  
Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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###### 7.7.2.3.1 General [NR\_pos-Perf]

**R4-2100048 Beam configuration for gNB measurement accuracy**

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

**Discussion:**

[report of discussion]

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

**R4-2100353 gNB positioning requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

gNB positioning general topics and WF statement overview

**Discussion:**

[report of discussion]

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

**R4-2101729 gNB Positioning UL SRS System simulation results for side conditions**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

gNB positioning system level results for side conditions

**Discussion:**

[report of discussion]

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

**R4-2102690 On SRS configurations for gNB measurement accuracy requirements**

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

**Abstract:**

Discussion on set of SRS configurations for gNB measurement accuracy requirements

**Discussion:**

[report of discussion]

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

**R4-2102779 Discussion on general issues for gNB positioning measurement requirements**

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

**Discussion:**

[report of discussion]

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

###### 7.7.2.3.2 SRS-RSRP requirements [NR\_pos-Perf]

**R4-2100450 Discussion on SRS-RSRP measurement requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101737 gNB SRS-RSRP measurement analysis**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion document for related CR

**Discussion:**

[report of discussion]

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

**R4-2101760 gNB SRS-RSRP measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

Adding SRS-RSRP measurement accuracy requirements table structure

**Discussion:**

[report of discussion]

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

**R4-2102783 Discussion on SRS-RSRP requirements**

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

**Discussion:**

Session chair: moved from AI 7.7.2.3.3

[report of discussion]

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

**R4-2102784 Link level simulation results for SRS-RSRP**

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

**Discussion:**

Session chair: moved from AI 7.7.2.3.3

[report of discussion]

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

**R4-2102785 draftCR to introduce SRS-RSRP requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

Session chair: moved from AI 7.7.2.3.3

[report of discussion]

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

###### 7.7.2.3.3 gNB Rx-Tx time difference requirements [NR\_pos-Perf]

**R4-2100451 Discussion on gNB Rx-Tx time difference measurement requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101761 gNB Rx-Tx measurement analysis**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion document for related CR

**Discussion:**

[report of discussion]

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

**R4-2101790 gNB Rx-Tx measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

Adding Rx-Tx measurement accuracy requirements table structure

**Discussion:**

[report of discussion]

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

**R4-2102691 Link simulation results for gNB Rx-Tx time difference accuracy**

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

**Abstract:**

Link simulation results for gNB Rx-Tx time difference accuracy for some agreed SRS configurations

**Discussion:**

[report of discussion]

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

**R4-2102780 Discussion on gNB Rx-Tx time difference requirements**

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

**Discussion:**

Session chair: moved from AI 7.7.2.3.2

[report of discussion]

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

**R4-2102781 Link level simulation results for UL-RTOA and gNB Rx-Tx time difference**

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

**Discussion:**

Session chair: moved from AI 7.7.2.3.2

[report of discussion]

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

**R4-2102782 draftCR to introduce gNB Rx-Tx time difference requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

Session chair: moved from AI 7.7.2.3.2

[report of discussion]

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

###### 7.7.2.3.4 UL RTOA requirements [NR\_pos-Perf]

**R4-2100452 Discussion on UL RTOA measurement requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100453 Link-level simulation results for UL timing measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2101801 gNB UL RTOA measurement analysis**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on WF analysis if RxTx requirements defined should be reused for UL RTOA

**Discussion:**

[report of discussion]

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

**R4-2102692 On UL RTOA requirements for NR positioning**

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

**Abstract:**

Discussion on introduction of RTOA requirements for NR positioning

**Discussion:**

[report of discussion]

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

**R4-2102786 Discussion on UL-RTOA requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102787 draftCR to introduce UL-RTOA requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

### 7.8 Physical layer enhancements for NR URLLC [NR\_L1enh\_URLLC-Core]

### 7.9 Enhancements on MIMO for NR [NR\_eMIMO]

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**Email discussion: [98e][216] NR\_eMIMO\_RRM**

**R4-2103455 Email discussion summary: [98e][216] NR\_eMIMO\_RRM***Type: other For: Information  
Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 7.9.2 RRM core requirements maintenance (38.133) [NR\_eMIMO-Core]

**R4-2100202 RRM Core requirements maintenance for eMIMO**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100203 CR to 38.133 on RRM requirements for multi-TRP (R16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1453 Cat: B (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100204 CR to 38.133 on RRM requirements for multi-TRP (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1454 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100205 CR to 38.133 on Link Recovery requirements (R16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1455 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100206 CR to 38.133 on Link Recovery requirements (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1456 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100207 CR to 38.133 on Pathloss activation delay requirements (R16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1457 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100208 CR to 38.133 on Pathloss activation delay requirements (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1458 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100755 Discussion on the scaling factor for SCell beam failure recovery**

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

**Discussion:**

[report of discussion]

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

**R4-2100756 CR on the scaling factor for SCell beam failure recovery in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1508 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100757 CR on the scaling factor for SCell beam failure recovery in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1509 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100758 Correction on the measurement restriction for CSI-IM resource in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1510 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100759 Correction on the measurement restriction for CSI-IM resource in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1511 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100933 CR to TS38.133 on L1-SINR measurement requirement**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1533 Cat: F (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100934 CR to TS38.133 on L1-SINR measurement requirement**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1534 Cat: A (Rel-17)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101670 Discussion on maintaining issues for L1-SINR measurent requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101671 CR on maintaining L1-SINR measurent requirements Rel-16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1642 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101672 CR on maintaining L1-SINR measurent requirements Rel-17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1643 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102864 On Rel-16 NR eMIMO multi-TRxP transmissions**

*Type: other For: Discussion  
 38.133 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Proposal 1: Option 2: no need to revise the spec.

**Discussion:**

[report of discussion]

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

#### 7.9.3 RRM perf. requirements (38.133) [NR\_eMIMO-Perf]

**R4-2100938 Introduction of Rel-16 NR eMIMO RRM performance requirements and test cases**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1535 Cat: B (Rel-16)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2100939 Introduction of Rel-16 NR eMIMO RRM performance requirements and test cases**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1536 Cat: A (Rel-17)  
  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

##### 7.9.3.1 General [NR\_eMIMO-Perf]

**R4-2101674 Discussion on IMR configuration for L1-SINR measurement tests**

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

**Discussion:**

[report of discussion]

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

**R4-2101675 DraftCR on IMR configuration for L1-SINR measurement tests**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.9.3.2 L1-SINR measurement accuracy [NR\_eMIMO-Perf]

**R4-2100209 RRM Performance requirements for L1-SINR Measurement Accuracy**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100868 Simulation results for the measurement of L1-SINR**

*Type: discussion For: Information  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100869 Discussion on L1-SINR measurement accuracy**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2100935 Remaining issues on L1-SINR measurement accuracy requirement**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101445 L1-SINR measurement accuracy**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution shows our simulation results on L1-SINR and discusses the accuracy requirements.

**Discussion:**

[report of discussion]

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

**R4-2101673 Discussion on L1-SINR measurement accuracy requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2102865 Discussions on Rel-16 NR eMIMO L1-SINR measurement Accuracy**

*Type: other For: Discussion  
 38.133 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The document has discussed the remaining open issues on L1-SINR measurements.

**Discussion:**

[report of discussion]

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

**R4-2102867 CR to TS 38.133: Adding L1-SINR accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The CR provides the text proposal for L1-SINR absolute accuracy requirements for FR1 and FR2, which is in accordance with the agreed WF (R4-2017375) and simulation results.

**Discussion:**

[report of discussion]

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

**R4-2102868 CR to TS 38.133: Adding conditions for L1-SINR reporting (Annex B.2)**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The CR provides the text proposal for the conditions for NR L1-SINR reporting, which are required by the L1-SINR accuracy requirements.

**Discussion:**

[report of discussion]

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

##### 7.9.3.3 Test cases [NR\_eMIMO-Perf]

###### 7.9.3.3.1 L1-SINR measurements [NR\_eMIMO-Perf]

**R4-2100936 Draft CR on L1-SINR measurement accuracy tests with CSI-RS based CMR and dedicated IMR**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101676 DraftCR on L1-SINR measurement procedure tests with SSB CMR and dedicated IMR**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102912 Draft test case CR on measurement performance of L1-SINR for CSI-RS-based CMR and no dedicated IMR**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Qualcomm CDMA Technologies*

(Replaces R4-2014292)

**Abstract:**

Resubmission of R4-2014292

**Discussion:**

[report of discussion]

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

###### 7.9.3.3.2 BFR for SCell [NR\_eMIMO-Perf]

**R4-2100754 Introduction of test cases for BFD and link recovery procedure for Scell**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101446 Test case for SCell beam failure recovery**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the test case for SCell beam failure recovery.

**Discussion:**

[report of discussion]

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

**R4-2101447 Draft CR: Introduction of test case of link recovery with link recovery requests**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

This draft CR introduces the test case for link recovery with LRR.

**Discussion:**

[report of discussion]

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

###### 7.9.3.3.3 DL/UL beam indication with reduced latency and overhead [NR\_eMIMO-Perf]

**R4-2100044 Test cases for applicable timing for PL RS activated by MAC-CE**

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

**Discussion:**

[report of discussion]

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

**R4-2100045 [CR] Test cases for applicable timing for PL RS activated by MAC-CE**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1414 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

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

**R4-2100054 [draft CR] Test cases for applicable timing for PL RS activated by MAC-CE**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: ZTE Corporation*

**Abstract:**

This CR adds test cases to 38.133 in correspondance to the core requirements for PL RS activation delay.

**Discussion:**

[report of discussion]

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

**R4-2101678 Discussion on testability of pathloss-RS activation delay**

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

**Discussion:**

[report of discussion]

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

###### 7.9.3.3.4 Others [NR\_eMIMO-Perf]

**R4-2100937 Draft CR on CSI-RS configurations**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Samsung*

**Discussion:**

[report of discussion]

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

**R4-2101677 DraftCR on L1-SINR measurement accuracy tests with SSB CMR and dedicated IMR**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

### 7.10 Add support of NR DL 256QAM for FR2 [NR\_DL256QAM\_FR2]

### 7.11 RF requirements for NR frequency range 1 (FR1) [NR\_RF\_FR1]

#### 7.11.2 RRM requirements maintenance (38.133) [NR\_RF\_FR1-Core/Perf]

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**Email discussion: [98e][217] NR\_RF\_FR1\_RRM**

**R4-2103456 Email discussion summary: [98e][217] NR\_RF\_FR1\_RRM***Type: other For: Information  
Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2101147 Discussion on interruption test cases for Tx switching**

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

**Discussion:**

[report of discussion]

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

**R4-2101148 Update on interruption test cases for Tx switching R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1559 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101149 Update on interruption test cases for Tx switching R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1560 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101710 Correction on test cases of DL interruptions at switching between two uplink carriers**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1659 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101711 Correction on test cases of DL interruptions at switching between two uplink carriers**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1660 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

### 7.12 NR RF requirement enhancements for frequency range 2 (FR2) [NR\_RF\_FR2\_req\_enh]

#### 7.12.2 RRM requirements maintenance (38.133) [NR\_RF\_FR2\_req\_enh-Core]

### 7.13 NR RRM requirement enhancement [NR\_RRM\_Enh-Core]

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**Email discussion: [98e][218] NR\_RRM\_Enh\_RRM\_1**

**R4-2103457 Email discussion summary: [98e][218] NR\_RRM\_Enh\_RRM\_1***Type: other For: Information  
Source: Moderator (Intel Corporation)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**Email discussion: [98e][219] NR\_RRM\_Enh\_RRM\_2**

**R4-2103458 Email discussion summary: [98e][219] NR\_RRM\_Enh\_RRM\_2***Type: other For: Information  
Source: Moderator (ZTE)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**Email discussion: [98e][220] NR\_RRM\_Enh\_RRM\_3**

**R4-2103459 Email discussion summary: [98e][220] NR\_RRM\_Enh\_RRM\_3***Type: other For: Information  
Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 7.13.1 RRM core requirements maintenance (38.133) [NR\_RRM\_Enh-Core]

##### 7.13.1.1 Multiple Scell activation/deactivation [NR\_RRM\_Enh-Core]

**R4-2101058 Remaining Issues on multiple SCell Activation**

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

**Discussion:**

[report of discussion]

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

**R4-2102788 Discussion on remaining issues in multiple SCell activation**

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

**Discussion:**

[report of discussion]

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

**R4-2102789 CR on multiple SCell activation requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1770 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102790 CR on multiple SCell activation requirements R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1771 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.13.1.2 BWP switching on multiple CCs [NR\_RRM\_Enh-Core]

**R4-2101408 Discussion on RRC based BWP switching on multiple CC**

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

**Discussion:**

[report of discussion]

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

**R4-2101409 CR on RRC based BWP switching on multiple CCs (Rel-16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1597 Cat: B (Rel-16)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101410 CR on RRC based BWP switching on multiple CCs (Rel-17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1598 Cat: A (Rel-17)  
  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101631 CR on interruption requirements of BWP switch on multiple CCs for EN-DC**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7025 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101632 CR on interruption requirements of BWP switch on multiple CCs for EN-DC**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7026 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101633 Discussion on requirements maintenance for BWP switch on multiple CCs**

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

**Discussion:**

[report of discussion]

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

**R4-2102354 On DCI-based simultaneous BWP switch on multiple CCs**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on clarification of DCI-based BWP switching requirement for switching on multiple CCs, in response to LS reply from RAN1.

**Discussion:**

[report of discussion]

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

**R4-2102355 CR 38.133 (8.6.2A) Clarification on DCI-triggered BWP switch on multiple CCs**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1720 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Adding clarification for DCI-based BWP switching on multiple CCs w.r.t. k0, k1, k2.

**Discussion:**

[report of discussion]

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

**R4-2102356 CR 38.133 (8.6.2A) Clarification on DCI-triggered BWP switch on multiple CCs**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1721 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Adding clarification for DCI-based BWP switching on multiple CCs w.r.t. k0, k1, k2.

**Discussion:**

[report of discussion]

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

**R4-2102722 CR on maintenance on BWP switch requirements on multiple CCs**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1745 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102723 CR on maintenance on BWP switch requirements on multiple CCs (cat A)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1746 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

##### 7.13.1.3 Other requirements maintenance [NR\_RRM\_Enh-Core]

**R4-2100052 CGI reading with autonomous gaps**

*Type: LS out For: Approval  
 to RAN2  
 Source: ZTE Corporation*

**Abstract:**

According to RAN2 discussion summary during RAN2 112-e, they are waiting for RAN4 input on the value of T321. This discussion paper along with a draft LS discusses this issue and provides a draft LS to be sent to RAN2.

**Discussion:**

[report of discussion]

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

**R4-2100181 CR on maintenance for inter-band FR2 CA RRM R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1445 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100182 CR on maintenance for inter-band FR2 CA RRM R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1446 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100183 CR on UE behavior for UE specific CBW change R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1447 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100184 CR on UE behavior for UE specific CBW change R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1448 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100213 Remaining issues for UL spatial relation switching requirements**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100214 CR to 38.133 on UL spatial relation switch requirements (R16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1459 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100215 CR to 38.133 on UL spatial relation switch requirements (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1460 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100777 Discussion on Inter-band CA requirement for FR2**

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

**Discussion:**

[report of discussion]

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

**R4-2100778 Correction on scheduling availability and measurement restriction on FR2 inter-band CA in R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1521 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2100779 Correction on scheduling availability and measurement restriction on FR2 inter-band CA in R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1522 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101219 CR on TS38.133 for inter-frequency measurement requirement without gap**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1585 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101220 CR on TS38.133 for inter-frequency measurement requirement without gap**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1586 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101689 Correction on interruptions of SRS carrier switching**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1647 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101690 Correction on interruptions of SRS carrier switching**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1648 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101691 Clarification on inter-frequency measurement without gap requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1649 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101692 Clarification on inter-frequency measurement without gap requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1650 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101694 UL spatial relation switching to an unknown DL RS**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1651 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101695 UL spatial relation switching to an unknown DL RS**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1652 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101762 CR to 38.133 correction on SRS carrier based switching core requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1661 Cat: F (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101763 CR to 38.133 correction on SRS carrier based switching core requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1662 Cat: A (Rel-17)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102686 SRS carrier switching interruption CR**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1741 Cat: F (Rel-16)  
  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

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

**R4-2102687 SRS carrier switching interruption CR**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1742 Cat: A (Rel-17)  
  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

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

**R4-2102791 CR on CGI reading requirements 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1772 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, MediaTek*

**Discussion:**

[report of discussion]

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

**R4-2102792 CR on CGI reading requirements 38.133 R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1773 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, MediaTek*

**Discussion:**

[report of discussion]

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

**R4-2102793 CR on CGI reading report delay 36.133**

*Type: CR For: Agreement  
 36.133 v16.8.0 CR-7070 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102794 CR on CGI reading report delay 36.133 R17**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7071 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

#### 7.13.2 RRM perf. requirements (38.133) [NR\_RRM\_Enh-Perf]

##### 7.13.2.1 General [NR\_RRM\_Enh-Perf]

**R4-2100225 Test applicability for mandatory gap patterns**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2101416 Big CR: Introduction of Rel-16 NR RRM enhancements WI performance requirements and test cases (Rel-16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1599 Cat: B (Rel-16)  
  
 Source: Intel Corporation, ZTE Corporation, Apple*

**Discussion:**

[report of discussion]

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

**R4-2101417 Big CR: Introduction of Rel-16 NR RRM enhancements WI performance requirements and test cases (Rel-17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1600 Cat: A (Rel-17)  
  
 Source: Intel Corporation, ZTE Corporation, Apple*

**Discussion:**

[report of discussion]

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

##### 7.13.2.2 Test cases [NR\_RRM\_Enh-Perf]

###### 7.13.2.2.1 SRS carrier switching requirements [NR\_RRM\_Enh-Perf]

**R4-2100226 TC4: E-UTRAN – NR interruptions at NR SRS carrier based switching (PSCell in FR2, SCell in FR2)**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100624 SRS carrier switching discussion**

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

**Discussion:**

[report of discussion]

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

**R4-2101688 Discussion on SRS carrier switching test case**

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

**Discussion:**

[report of discussion]

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

**R4-2101764 Remaining issues for SRS carrier switching test cases**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101765 CR to 38.133 on SRS configuration**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102533 TC2 - SA interruptions at NR SRS carrier based switching**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

TC2 - SA interruptions at NR SRS carrier based switching

**Discussion:**

[report of discussion]

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

**R4-2102634 Test cases for BWP switching on multiple CCs for FR1+FR2**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper discusses scenarios for RRM tests for multiple BWP switching on CCs with FR1 and FR2

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.2 Multiple Scell activation/deactivation [NR\_RRM\_Enh-Perf]

**R4-2101059 draftCR on multiple SCell activation test case**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.3 CGI reading requirements with autonomous gap [NR\_RRM\_Enh-Perf]

**R4-2100623 CGI reading discussion T321 LS**

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

**Discussion:**

[report of discussion]

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

**R4-2101766 On CGI reading test cases**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2102795 draftCR to CGI reading TC4**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.4 BWP switching on multiple CCs [NR\_RRM\_Enh-Perf]

**R4-2101060 Discussion on multiple BWP switch test case**

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

**Discussion:**

[report of discussion]

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

**R4-2101378 Further considerations on test cases for BWP switch over multiple CCs**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101390 CR for test cases for simultaneously DCI/timer based bwp switch over mulitple CCs on FR1 in SA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1595 Cat: B (Rel-16)  
  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101411 Discussion on test case design for BWP switching on multiple CCs**

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

**Discussion:**

[report of discussion]

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

**R4-2101412 Draft CR on DCI-based and Timer-based simultaneous Active BWP Switch on multiple CCs on FR1 in EN-DC (section 4.5.6.x)**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

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

**R4-2101634 Discussion on performance requirements for BWP switch on multiple CCs**

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

**Discussion:**

[report of discussion]

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

**R4-2101635 draftCR to introduce Active BWP Switch on multiple CCs TC2**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102362 On TC4 for simultaneous BWP switch on multiple CCs**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on test case for simultaneous BWP switching on multiple CCs.

**Discussion:**

[report of discussion]

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

**R4-2102363 DraftCR 38.133 (A.7.5.X) TC4 BWP switching**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Ericsson*

**Abstract:**

TC4 for simultaneous BWP switching on multiple CCs

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.5 Inter-frequency measurement requirement without MG [NR\_RRM\_Enh-Perf]

**R4-2100627 Inter frequency w/o gap power imbalance discussion**

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

**Discussion:**

[report of discussion]

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

**R4-2101693 Correction on inter-frequency measurement without gap test case**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.6 Mandatory MG patterns [NR\_RRM\_Enh-Perf]

**R4-2100625 Mandatory MG applicability rule discussion**

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

**Discussion:**

[report of discussion]

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

**R4-2100626 Mandatory MG applicability rule CR**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

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

**R4-2100860 Discussion on test cases for mandatory MG patterns**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

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

**R4-2101922 On test cases for mandatory gap patterns**

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

**Discussion:**

[report of discussion]

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

**R4-2102361 Test case applicability for mandatory measurement gaps in R15/R16**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on test case applicability for measurement gaps.

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.7 UE-specific CBW change [NR\_RRM\_Enh-Perf]

**R4-2101070 draftCR on the CBW change test case for adding the UL CBW configuration**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.8 Spatial relation switch for uplink [NR\_RRM\_Enh-Perf]

**R4-2101696 Correction on uplink spatial relation switching test case**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102265 Test case for RRC based UL spatial relation switch associated with a known DL-RS in SA for periodic SRS**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

###### 7.13.2.2.9 Inter-band CA requirement for FR2 UE measurement capability of independent Rx beam [NR\_RRM\_Enh-Perf]

**R4-2101679 DraftCR on SCell activation and deactication delay test for FR2 inter-band CA**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2102888 Updates on Test Configuration for FR2 Inter-band CA IBM UEs**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

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

### 7.14 NR RRM requirements for CSI-RS based L3 measurement [NR\_CSIRS\_L3meas]

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**Email discussion: [98e][221] NR\_CSIRS\_L3meas\_RRM\_1**

**R4-2103460 Email discussion summary: [98e][221] NR\_CSIRS\_L3meas\_RRM\_1***Type: other For: Information  
Source: Moderator (CATT)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**Email discussion: [98e][222] NR\_CSIRS\_L3meas\_RRM\_2**

**R4-2103461 Email discussion summary: [98e][222] NR\_CSIRS\_L3meas\_RRM\_2***Type: other For: Information  
Source: Moderator (OPPO)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 7.14.1 RRM core requirements maintenance (38.133) [NR\_CSIRS\_L3meas-Core]

**R4-2100242 CR on CSSF with CSI-RS for L3 measurement**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1468 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100243 On remaining core issues of CSI-RS for L3 measurements**

*Type: discussion For: Agreement  
 Source: Apple*

**Discussion:**

[report of discussion]

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

**R4-2100421 Discussion on core part maintenance open issues**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100422 CR on CSI-RS based L3 measurement**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1470 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100461 CR on CSI-RS based L3 measurement**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1482 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

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

**R4-2100716 Discussion on the remaining issues of core requirement for CSI-RS L3 measurement**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

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

**R4-2100718 CR on core requirement for CSI-RS L3 measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

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

**R4-2101150 Maintenance CR for CSI-RS based L3 measurement requirements R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1561 Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101151 Maintenance CR for CSI-RS based L3 measurement requirements R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1562 Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

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

**R4-2101185 Comments on remaining issues of CSI-RS based L3 measurement core requirements**

*Type: discussion For: (not specified)  
 38.133 v..  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

The remaining issues in the core requirements of CSI-RS based L3 measurements from 97e are discussed.

**Discussion:**

[report of discussion]

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

**R4-2101393 Open issues on the CSI-RS based measurement requirements**

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

**Discussion:**

[report of discussion]

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

**R4-2101394 38.133 CR on the CSI-RS based measurement requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1596 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

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

**R4-2101767 Remaining issues on CSI-RS L3 measurement core requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

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

**R4-2101837 Discussion on remaining issues for CSI-RS based L3 measurement**

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

**Discussion:**

[report of discussion]

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

**R4-2101838 CR on CSI-RS based intra-frequency scheduling restriction**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1676 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101839 CR on CSI-RS based intra-frequency scheduling restriction**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1677 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101840 Correction on CSSFoutsidegap**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1678 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101841 Correction on CSSFoutsidegap**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1679 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101842 CR on CSI-RS measurement window and intra-frequency measurements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1680 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

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

**R4-2101843 CR on CSI-RS measurement window and intra-frequency measurements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1681 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102612 38.133 CR on the CSI-RS based measurement requirements**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1737 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

#### 7.14.2 RRM perf. requirements (38.133) [NR\_CSIRS\_L3meas-Perf]

**R4-2100717 Discussion on the remaining issues of performance requirement for CSI-RS L3 measurement**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 7.14.2.1 General [NR\_CSIRS\_L3meas-Perf]

**R4-2101203 On the performance requirements of CSI-RS based L3 measurement**

*Type: discussion For: (not specified)  
 38.133 v..  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Sim results on CSI-RSRP and CSI-SINR

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101291 Big CR: Introduction of Rel-16 CSI-RS based L3 measurement RRM performance requirements**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1587 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101395 Discussion on the performance of CSI-RS based measurements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101413 Discussion on CSI-RS L3 measurement**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

###### 7.14.2.1.1 CSI-RSRP requirements [NR\_CSIRS\_L3meas-Perf]

**R4-2100423 Updated simulation results for CSI-RSRP measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100426 Discussion on performance requirement for CSI-RSRP**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100429 CR on performance requirement for CSI-RSRP**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1471 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100462 CR on performance requirement for CSI-RSRP**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1483 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100719 CR on CSI-RSRP performance requirement for CSI-RS L3 measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100861 Discussion on performance requirements for CSI-RS based L3 measurement**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100862 Simulation results for CSI-RSRP**

*Type: discussion For: Information  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101152 CSI-RSRP measurement accuracy requirement**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101396 38.133 draftCR on the CSI-RSRP accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101397 Simulation results for CSI-RS based measurements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101532 Discussion on remaining issues for CSI-RS measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101768 Simulation results for CSI-RSRP measurement accuracy**

*Type: other For: Information  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101769 Discussion on CSI-RSRP measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102799 Discussion on CSI-RSRP accuracy requirements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

###### 7.14.2.1.2 CSI-RSRQ requirements [NR\_CSIRS\_L3meas-Perf]

**R4-2100424 Updated simulation results for CSI-RSRQ measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100427 Discussion on performance requirement for CSI-RSRQ**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100430 CR on performance requirement for CSI-RSRQ**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1472 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100463 CR on performance requirement for CSI-RSRQ**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1484 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100720 CR on CSI-RSRQ performance requirement for CSI-RS L3 measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100863 Simulation results for CSI-RSRQ**

*Type: discussion For: Information  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101770 Simulation results for CSI-RSRQ measurement accuracy**

*Type: other For: Information  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101771 Discussion on CSI-RSRQ measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

###### 7.14.2.1.3 CSI-SINR requirements [NR\_CSIRS\_L3meas-Perf]

**R4-2100425 Simulation results for CSI-SINR measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100428 Discussion on performance requirement for CSI-SINR**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100431 CR on performance requirement for CSI-SINR**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1473 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100464 CR on performance requirement for CSI-SINR**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1485 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100721 CR on CSI-SINR performance requirement for CSI-RS L3 measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100864 Simulation results for CSI-SINR**

*Type: discussion For: Information  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100865 Discussion on side condition for CSI-SINR measurement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101153 CSI-SINR measurement accuracy requirement**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101772 Simulation results for CSI-SINR measurement accuracy**

*Type: other For: Information  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101773 Discussion on CSI-SINR measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102800 Discussion on CSI-SINR accuracy requirements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102801 draftCR on CSI-SINR accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 7.14.2.2 Test cases [NR\_CSIRS\_L3meas-Perf]

**R4-2101292 Big CR: Introduction of Rel-16 CSI-RS based L3 measurement RRM test cases**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1588 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

###### 7.14.2.2.1 General [NR\_CSIRS\_L3meas-Perf]

**R4-2100432 Discussion on test case for CSI-RS based measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101533 CR for CSI-RS L3 RRM tests**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1611 Cat: F (Rel-16)  
  
 Source: OPPO, CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101774 Remaining issues on CSI-RS L3 measurement test cases**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102802 Discussion on remaining issues in CSI-RS RRM test cases**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

###### 7.14.2.2.2 Intra-frequency measurement [NR\_CSIRS\_L3meas-Perf]

**R4-2100433 CR on test case for CSI-RS based intra-frequency measurement for FR1 in SA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1474 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100465 CR on test case for CSI-RS based intra-frequency measurement for FR1 in SA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1486 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100722 RRM test cases for CSI-RS L3 intra-frequency measurements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102820 Draft test case of CSI-RS based intra-frequency test for EN-DC event triggered reporting tests without gap for NR neighbor cell in FR2**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Update the cell time offset for the intra-frequency CSI-RS L3 test to be within a CP.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

###### 7.14.2.2.3 Inter-frequency measurement [NR\_CSIRS\_L3meas-Perf]

**R4-2100434 CR on test case for CSI-RS based inter-frequency measurement for FR1 in SA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1475 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100466 CR on test case for CSI-RS based inter-frequency measurement for FR1 in SA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1487 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100723 RRM test cases for CSI-RS L3 inter-frequency measurements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101534 CR on EN-DC tests for NR inter-frequency neighbor cell in FR2(PScell in FR2)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1612 Cat: F (Rel-16)  
  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

###### 7.14.2.2.4 Measurement performance [NR\_CSIRS\_L3meas-Perf]

**R4-2100435 CR on test case for CSI-RSRP measurement accuracy requirements in SA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1476 Cat: B (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100467 CR on test case for CSI-RSRP measurement accuracy requirements in SA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1488 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100724 RRM test cases for CSI-RS L3 measurement performance requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101154 CR to Update timing offset in test case for CSI-SINR in SA FR2**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101535 CR on EN-DC tests for CSI-RSRQ accuracy**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1613 Cat: F (Rel-16)  
  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101775 CR to 38.133 correction to test cases for EN-DC CSI-SINR measurement accuracy**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102803 draft CR to update TC3 and TC12 for CSI-RS accuracy test**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102825 Draft test case of measurement performance for EN-DC CSI-RSRP measurement accuracy for NR neighbor cell in FR2**

*Type: draftCR For: Endorsement  
 38.133 v16.6.0  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Update the cell time offset for the test cases of measurement performance in the scenario of EN-DC FR2

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 7.15 NR support for high speed train scenario [NR\_HST]

#### 7.15.1 RRM requirements maintenance (38.133) [NR\_HST-Core/Perf]

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**Email discussion: [98e][223] NR\_HST\_RRM**

**R4-2103462 Email discussion summary: [98e][223] NR\_HST\_RRM***Type: other For: Information  
Source: Moderator (CMCC)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100237 R16 HST maintenance: measurement requirements for active SCell in HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100238 CR on HST core part maintenance**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1466 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100239 CR on HST core part maintenance (R17)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1467 Cat: A (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **withdrawn**.

**R4-2100484 Correction to cell reselection test case for HST**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1499 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100485 Correction to cell reselection test case for HST**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1500 Cat: A (Rel-17)  
  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100849 CR on HST RRM requirements in connected mode**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1526 Cat: F (Rel-16)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100850 CR on HST RRM requirements in connected mode**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1527 Cat: A (Rel-17)  
  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101013 CR on HST core part maintenance (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1544 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101844 Correction on inter-RAT measurement in high speed scenario**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1682 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101845 Correction on inter-RAT measurement in high speed scenario**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1683 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101846 Correction on test cases for inter-RAT cell identification in connected mode for HST**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1684 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101847 Correction on test cases for inter-RAT cell identification in connected mode for HST**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1685 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 7.16 NR performance requirement enhancement [NR\_perf\_enh-Perf]

### 7.17 Over the air (OTA) base station (BS) testing TR Maintenance [OTA\_BS\_testing-Perf]

### 7.18 2-step RACH for NR [NR\_2step\_RACH-Perf]

#### 7.18.1 RRM requirements maintenance (38.133) [NR\_2step\_RACH-Core/Perf]

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**Email discussion: [98e][224] NR\_2step\_RACH\_RRM**

**R4-2103463 Email discussion summary: [98e][224] NR\_2step\_RACH\_RRM***Type: other For: Information  
Source: Moderator (ZTE)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100115 [CR] Applicability rule for 2-step RA**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1434 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100116 [CR] Applicability rule for 2-step RA (Cat A)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1435 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This is a cat A CR for Release 17.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100580 2-step RACH RRM performance requirements corrections**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1501 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100581 2-step RACH RRM performance requirements corrections**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1502 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100835 Update the applicability rule for 2-step RA**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102277 2-step RACH RRM performance requirements corrections**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1704 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **withdrawn**.

**R4-2102278 2-step RACH RRM performance requirements corrections**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1705 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **withdrawn**.

### 7.19 R16 NR maintenance [WI code or TEI16]

#### 7.19.5 RRM [WI code or TEI16]

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**Email discussion: [98e][204] R16\_NR\_RRM\_maintenance**

**R4-2103443 Email discussion summary: [98e][204] R16\_NR\_RRM\_maintenance***Type: other For: Information  
Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100117 [CR] Core maintenance for 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1436 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

This CR tends to fix some errors existing in the current specification TS 38.133.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100118 [CR] Core maintenance for 38.133 (Cat A)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1437 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This is a cat A CR for Release 17.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100185 On R16 IDLE and INACTIVE RRM requirement with SMTC2-LP**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100186 CR on IDLE/INACTIVE RRM requirement with SMTC2-LP R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1449 Cat: B (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100187 CR on IDLE/INACTIVE RRM requirement with SMTC2-LP R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1450 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100234 Interruption requirements maintenance in NR-DC (R16)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1464 Cat: F (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100235 Interruption requirements maintenance in NR-DC (R17)**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1465 Cat: A (Rel-16)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **withdrawn**.

**R4-2101011 Interruption requirements maintenance in NR-DC (R17)**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1542 Cat: A (Rel-17)  
  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101075 CR for measurement period requirements correction**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1555 Cat: F (Rel-16)  
  
 Source: NEC*

**Abstract:**

Measurement period requirements are corrected

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101076 CR for measurement period requirements correction**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1556 Cat: A (Rel-17)  
  
 Source: NEC*

**Abstract:**

Measurement period requirements are corrected

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101530 Maintenance CR on interruption at EUTRA SRS carrier switching in 38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1609 Cat: F (Rel-16)  
  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101531 Maintenance CR on SCell activation delay requirement in TS38.133**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1610 Cat: F (Rel-16)  
  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101680 Discussion on MRTD/MTTD requirements for FR1 intra-band CA/DC**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101681 CR on MRTD/MTTD requirements for FR1 intra-band CA/DC R16**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1644 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, LG Uplus, SoftBank Corp.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101682 CR on MRTD/MTTD requirements for FR1 intra-band CA/DC R17**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1645 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, LG Uplus, SoftBank Corp.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101860 MRTD and MTTD in non-contiguous CA in FR1**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

MRTD and MTTD in non-contiguous CA in FR1. This is based on an issue initiated by Huawei to allow non-colocated NCCA deployments.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101861 MRTD and MTTD in non-contiguous CA in FR1**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1686 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

MRTD and MTTD in non-contiguous CA in FR1. This is based on an issue initiated by Huawei to allow non-colocated NCCA deployments.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101862 MRTD and MTTD in non-contiguous CA in FR1**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1687 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

MRTD and MTTD in non-contiguous CA in FR1. This is based on an issue initiated by Huawei to allow non-colocated NCCA deployments.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102250 Correction of band group notation for FR2**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1696 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102251 Correction of band group notation for FR2**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1697 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102889 Cat-F CR to addition of TRS Configurations in Rel-16 Test Case**

*Type: CR For: Agreement  
 38.133 v16.6.0 CR-1787 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102890 Cat-A CR to addition of TRS Configurations in Rel-17 Test Case**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1788 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**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]

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**Email discussion: [98e][228] NR\_FR2\_FWA\_Bn257\_Bn258\_RRM**

**R4-2103467 Email discussion summary: [98e][228] NR\_FR2\_FWA\_Bn257\_Bn258\_RRM***Type: other For: Information  
Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 9.24.2 RRM Core requirements (38.133) [NR\_FR2\_FWA\_Bn257\_Bn258-Core]

#### 9.24.3 RRM Perf. requirements (38.133) [NR\_FR2\_FWA\_Bn257\_Bn258-Perf]

**R4-2101683 Discussion on conditions for FR2 new FWA UE**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101684 CR on condition requirements for UE power class 5 in TS38.133**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1646 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 9.25 Introduction of NR 47 GHz band [NR\_47GHz\_Band]

#### 9.25.3 RRM (38.133) [NR\_47GHz\_Band-Core]

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**Email discussion: [98e][229] NR\_47GHz\_Band\_RRM**

**R4-2103468 Email discussion summary: [98e][229] NR\_47GHz\_Band\_RRM***Type: other For: Information  
Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2102653 Analysis of RRM requirements for band n62**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

This document analysis RRM requirements for new band on 47 GHz (n62)

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102654 RRM core requirements for band n62**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1740 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR on RRM requirements for new band on 47 GHz

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

## 10 Reply to ITU-R LS (RP-200042)

### 10.1 Study on IMT parameters for frequency ranges 6.425-7.125GHz and 10.0-10.5GHz [FS\_6425\_10500MHz \_NR]

## 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]

### 11.2 RF requirements enhancement for NR frequency range 1 (FR1) [NR\_RF\_FR1\_enh]

### 11.3 NR RF requirement enhancements for frequency range 2 (FR2) [NR\_RF\_FR2\_req\_enh2]

#### 11.3.5 RRM core requirements [NR\_RF\_FR2\_req\_enh2-Core]

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**Email discussion: [98e][230] NR\_RF\_FR2\_req\_enh2\_RRM**

**R4-2103469 Email discussion summary: [98e][230] NR\_RF\_FR2\_req\_enh2\_RRM***Type: other For: Information  
Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100241 On MRTD for CBM for FR2 interband CA**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100640 Discussion on MRTD and MTTD requirements on CBM and IBM for FR2 inter-band CA**

*Type: discussion For: Discussion  
 Source: LG Electronics*

**Abstract:**

It discusses MRTD and MTTD requirements on CBM and IBM for FR2 inter-band CA.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.3.5.1 Inter-band DL CA enhancements [NR\_RF\_FR2\_req\_enh2-Core]

**R4-2101077 Discussion on FR2 inter-band DL CA enhancements**

*Type: discussion For: Approval  
 Source: NEC*

**Abstract:**

We provide our views on some of the FR2 enhancements and MRTD requirement for FR2 inter-band CA

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101266 RRM requirements for inter-band DL CA in NR FR2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101540 Discussion on RRM requirements for FR2 inter-band DL CA enhancements**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101686 Discussion on RRM impacts for FR2 inter-band DL CA enhancement in Rel-17**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101867 Support up to 3 us MRTD**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we develop why at least 3us MRTD is feasible from both from a network perspective and a UE perspective, for co-located deployments.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101868 Updates on MRTD requirements for FR2 inter-band DL CA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1688 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Updates on MRTD requirements for FR2 inter-band DL CA

**Discussion:**

[report of discussion]

**Decision: Postponed.**

**R4-2102267 Discussion on FR2 RF RRM**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Nokia, Noki Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.3.5.2 Inter-band UL CA [NR\_RF\_FR2\_req\_enh2-Core]

**R4-2101687 Discussion on RRM impacts for FR2 inter-band UL CA in Rel-17**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101869 Updates on MTTD requirements for FR2 inter-band DL CA**

*Type: CR For: Agreement  
 38.133 v17.0.0 CR-1689 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Updates on MTTD requirements for FR2 inter-band DL CA

**Discussion:**

[report of discussion]

**Decision: Postponed.**

### 11.4 Further RRM enhancement for NR and MR-DC [NR\_RRM\_enh2]

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**Email discussion: [98e][231] NR\_RRM\_enh2\_1**

**R4-2103470 Email discussion summary: [98e][231] NR\_RRM\_enh2\_2***Type: other For: Information  
Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**Email discussion: [98e][232] NR\_RRM\_enh2\_2**

**R4-2103471 Email discussion summary: [98e][232] NR\_RRM\_enh2\_2***Type: other For: Information  
Source: Moderator (CATT)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 11.4.1 General and work plan [NR\_RRM\_enh2-Core]

#### 11.4.2 RRM core requirements [NR\_RRM\_enh2-Core]

##### 11.4.2.1 SRS antenna port switching [NR\_RRM\_enh2-Core]

**R4-2100192 On SRS antenna port switching**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100400 Discussion on SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100634 SRS antenna switch discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100655 Discussion on interruption due to SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100726 Discussion on SRS antenna switching RRM requirements**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101078 Discussion on SRS antenna port switching**

*Type: discussion For: Approval  
 Source: NEC*

**Abstract:**

We analyze the interruption requirements for SRS antenna port switching

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101223 Discussion on SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101379 Considerations on SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101392 Discussion on the interruption requirements at SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101414 Discussion on SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101656 Discussion on requirements for SRS antenna switching**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102534 On RRM requirements for SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On RRM requirements for SRS antenna port switching

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.4.2.2 HO with PSCell [NR\_RRM\_enh2-Core]

**R4-2100114 Discussion on handover with PSCell**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100193 On RRM requirement for handover with PSCell**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100401 Discussion on HO with PSCell**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100710 Discussion on RRM requirements for handover with PSCell**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100867 Discussion on HO with PSCell**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101079 Discussion on PSCell HO**

*Type: discussion For: Approval  
 Source: NEC*

**Abstract:**

We analyze the requirements for HO with PSCell

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101112 Views on HO with PSCell**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101415 Discussion on HO with PSCell**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101657 Discussion on requirements for HO with PSCell**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102364 On handover with PSCell**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on handover with PSCell

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102625 Views on specifying the requirements for HO with PSCell**

*Type: discussion For: (not specified)  
 38.133 v..  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Views on what to consider when discussing the requirements for HO with PSCell

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.4.2.3 PUCCH SCell activation/deactivation [NR\_RRM\_enh2-Core]

**R4-2100194 On PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100402 Discussion on PUCCH SCell activationdeactivation**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100711 Discussion on SCell activation and deactication requirements for PUCCH Scell**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100872 Discussion on PUCCH SCell activation/deactivation**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101046 Discussions on PUCCH SCell Activation/Deactivation delay requirements**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: NTT DOCOMO, INC.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101080 Discussion on PUCCH SCell activation**

*Type: discussion For: Approval  
 Source: NEC*

**Abstract:**

We analyze the requirements for PUCCH SCell activation/deactivation for single and multiple SCells

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101380 Considerations on PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101391 Discussion on the activation and deactivation delay requirements for PUCCH SCell**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101536 Views on RRM requirements for PUCCH SCell Activation/Deactivation**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101658 Discussion on requirements for PUCCH SCell activation**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102365 On SCell (de)activation with PUCCH**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on SCell activation and deactivation for PUCCH SCell.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102892 Discussion on PUCCH SCell Activation**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 11.5 NR and MR-DC measurement gap enhancements [NR\_MG\_enh]

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**Email discussion: [98e][233] NR\_MG\_enh\_1**

**R4-2103472 Email discussion summary: [98e][233] NR\_MG\_enh\_1***Type: other For: Information  
Source: Moderator (MediaTek)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**Email discussion: [98e][234] NR\_MG\_enh\_2**

**R4-2103473 Email discussion summary: [98e][234] NR\_MG\_enh\_2***Type: other For: Information  
Source: Moderator (Intel Corporation)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 11.5.1 General and work plan [NR\_MG\_enh-Core]

**R4-2101061 Work plan of R17 NR and MR-DC measurement gap enhancements WI**

*Type: discussion For: Approval  
 Source: MediaTek Inc., Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

#### 11.5.2 RRM core requirements [NR\_MG\_enh-Core]

##### 11.5.2.1 Pre-configured MG pattern(s) [NR\_MG\_enh-Core]

**R4-2100221 Consideration on preconfigured measurement gap patterns**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100454 Initial discussion on pre-configured MG pattern**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100712 Discussion on pre-configured MG pattern for NR**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100871 Discussion on pre-configured MG pattern(s)**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101062 Pre-configured MG pattern(s) per configured BWP**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101269 Discussion on pre-configured measurement gap**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101381 Considerations on pre-configured MG patterns**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101537 Views on pre-configured MG pattern(s) for NR\_MG\_enh**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102268 Discussion on Pre-configured MG pattern(s)**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102622 Views on pre-configured MG patterns**

*Type: discussion For: (not specified)  
 38.133 v..  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Views on necessary issues for clarifications on preconfigured MG

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102655 Overview of requirements for pre-configured measurement gaps**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

This document analysis RRM requirements for pre-configured MG in NR and MR-DC

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102810 Initial discussion on (de)activation of pre-configured MGs**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.5.2.2 Multiple concurrent and independent MG patterns [NR\_MG\_enh-Core]

**R4-2100113 Discussion on independent and concurrent MGs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Abstract:**

This paper discusses some conceptual issues related to concurrent MGs.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100222 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100455 Initial discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100641 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: LG Electronics*

**Abstract:**

It discusses multiple concurrent and independent MG patterns.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100713 Discussion on multiple concurrent and independent MG patterns for NR**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100870 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101063 Multiple concurrent and independent gap patterns**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101081 Discussion on NR measurement gap enhancements requirements**

*Type: discussion For: Approval  
 Source: NEC*

**Abstract:**

We discuss the principle for defining requirements for multiple concurrent and independent MG patterns

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101270 Discussion on multiple and independent concurrent measurement gaps in NR**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101538 Views on Multiple concurrent and independent MG patterns for NR\_MG\_enh**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102269 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102297 On requirements for mulitple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102535 On parallel measurement gap patterns**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On parallel measurement gap patterns

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102811 Initial discussion on multiple concurrent MGs**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.5.2.3 Network Controlled Small Gap [NR\_MG\_enh-Core]

**R4-2100223 On network controlled small gap**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100456 Initial discussion on Network Controlled Small Gap (NCSG)**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100460 CR on NCSG in 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.0.0  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101064 Network Controlled Small Gap**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101271 Discussion on NCSG in NR**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101382 Considerations on network controlled small gap**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101539 Views on pre-configured MG pattern(s) for NR\_MG\_enh**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102611 Discussion on network controlled small gap**

*Type: discussion For: (not specified)  
 38.133 v..  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Views on requirements and issues suggested for clarifications on NCSG

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102656 Overview of requirements for network controlled small gap**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

This document analysis RRM requirements for NCSG in NR and MR-DC

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102689 On Introduction of Network Controlled Small Gaps for NR**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on introduction of NCSG for NR

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102812 Initial discussion on NCSG**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**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]

#### 11.6.1 General and work plan [NR\_HST\_FR1\_enh-Core]

#### 11.6.2 RRM core requirements [NR\_HST\_FR1\_enh-Core]

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**Email discussion: [98e][235] NR\_HST\_FR1\_enh\_RRM**

**R4-2103474 Email discussion summary: [98e][235] NR\_HST\_FR1\_enh\_RRM***Type: other For: Information  
Source: Moderator (CMCC)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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##### 11.6.2.1 UE RRM core requirements for CA scenario [NR\_HST\_FR1\_enh-Core]

**R4-2100224 On R17 FR1 HST RRM measurement requirement**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100475 Discussion on CA for NR FR1 HST**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100633 FR1 HST RRM discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100857 General discussion on NR HST RRM enhancement for FR1 CA scenario**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101140 On SCell RRM enhancement for NR high speed train scenario in FR1**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Ericsson*

**Abstract:**

Discuss Scell RRM enhancement for high speed train in FR1

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101141 On SCell RRM enhancement for NR high speed train scenario in FR1**

*Type: draftCR For: Endorsement  
 38.133 v17.0.0  
 Source: Ericsson*

**Abstract:**

Discuss Scell RRM enhancement for high speed train in FR1

**Discussion:**

[report of discussion]

**Decision: Postponed.**

**R4-2101173 Discussion on high speed train for CA in FR1**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101707 Discussion on Enhancement for NR high speed train scenario in FR1**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102863 On RRM enhancements for HST scenarios for FR1 CA**

*Type: other For: Discussion  
 38.133 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

The document discusses the measurement requirement for SCells under HST scenarios.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 11.7 NR support for high speed train scenario in FR2 [NR\_HST\_FR2\_enh]

#### 11.7.4 RRM core requirements [NR\_HST\_FR2\_enh-Core]

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**Email discussion: [98e][236] NR\_HST\_FR2\_enh\_RRM**

**R4-2103475 Email discussion summary: [98e][236] NR\_HST\_FR2\_enh\_RRM***Type: other For: Information  
Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2100220 Discussion on RRM requirement for high speed train scenario in FR2**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100476 Discussion on NR FR2 HST**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100477 Initial performance evaluation for cell identification in NR FR2 HST scenario**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100866 General discussion on RRM requirements for FR2 HST**

*Type: discussion For: Approval  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100917 Discussion on RRM requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101138 On expected RRM impact for HST in FR2**

*Type: discussion For: Discussion  
 Source: Nokia*

**Abstract:**

Discussion about RRM sections to have potential impact due to the introduciton of HST in FR2.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101142 Overview of RRM requirements for NR high speed train scenario in FR2**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Ericsson*

**Abstract:**

an overview of which spec. should be considered in order to support FR2 HST scenario.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101268 RRM requirements for NR HST in FR2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101708 Preliminary discussion on NR support for high speed train scenario in FR2**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 11.8 Solutions for NR to support non-terrestrial networks (NTN) [NR\_NTN\_solutions]

#### 11.8.4 RRM core requirements [NR\_NTN\_solutions-Core]

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**Email discussion: [98e][237] NR\_NTN\_solutions\_RRM**

**R4-2103476 Email discussion summary: [98e][237] NR\_NTN\_solutions\_RRM***Type: other For: Information  
Source: Moderator (Fraunhofer HHI)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**R4-2101882 NTN PVT Accuracy Aspects**

*Type: discussion For: Information  
 Source: THALES*

**Abstract:**

The goal of this document is to recall some basic principles required for the PVT (Position Velocity and Time) computation and distribution to UEs.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.8.4.1 General [NR\_NTN\_solutions-Core]

**R4-2100780 Discussion on UE Pre-compensation for UL synchronization for in NTN**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101864 Architecture and reference point**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Discussion with draft LS for information from RAN4 to RAN1 about impact of different reference points.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102813 Discussion on general issues for NTN RRM**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102893 Discussion on RRM in NTN Systems**

*Type: discussion For: Discussion  
 38.133 v..  
 Source: Qualcomm Incorporated*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.8.4.2 Timing requirements [NR\_NTN\_solutions-Core]

**R4-2100647 Discussion on timing requirements for NTN**

*Type: discussion For: Discussion  
 Source: LG Electronics UK*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100714 Discussion on timing requirements for NTN**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100819 Discussion on NTN timing requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101541 Discussion on timing requirements for NR NTN RRM**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101865 RRM Timing requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

RRM timing requirements discussion and analysis.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102814 Discussion on NTN timing related requirements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

##### 11.8.4.3 Measurement requirements [NR\_NTN\_solutions-Core]

**R4-2100646 Discussion on measurement requirements for NTN**

*Type: discussion For: Discussion  
 Source: LG Electronics UK*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100715 Discussion on measurement requirements for NTN**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100802 Discussion on NTN RRM measurement requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101712 Discussion on NTN measurement**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101866 RRM Measurement Requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

RRM measurements requirements discussion and analysis.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 11.9 UE Power Saving Enhancements [NR\_UE\_pow\_sav\_enh]

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**Email discussion: [98e][238] NR\_UE\_pow\_sav\_enh\_RRM**

**R4-2103477 Email discussion summary: [98e][238] NR\_UE\_pow\_sav\_enh\_RRM***Type: other For: Information  
Source: Moderator (MediaTek)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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#### 11.9.1 General and work plan [NR\_UE\_pow\_sav\_enh-Core]

**R4-2101221 Work plan of Rel-17 Power Saving Enhancements**

*Type: Work Plan For: Approval  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

#### 11.9.2 UE measurements relaxation for RLM and/or BFD [NR\_UE\_pow\_sav\_enh-Core]

**R4-2100043 On RLM and RLF relaxation for UE power saving**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100219 UE measurements relaxation for RLM and/or BFD**

*Type: discussion For: Discussion  
 Source: Apple*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100474 Discussion on RLM/BFD relaxation factor**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100478 Initial performance evaluation for for RLM/BFD relaxation factor**

*Type: discussion For: Discussion  
 Source: CATT*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100725 Discussion on relaxation of RLM/BFD measurements**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2100821 Discussion on RLM/BFD relaxation for NR power saving enhancement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101139 Discussion and simulation results for RLM/BFD measurement relaxation**

*Type: discussion For: Discussion  
 Source: Nokia*

**Abstract:**

System level and power saving evaluation based on simulation assumptions, and other discussion related to RLM/BFD measurement relaxation.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101222 Evaluation on Rel-17 RLM/BFD measurement relaxation**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101461 Updated evaluation assumptions for R17 RLM/BFD relaxation**

*Type: other For: Approval  
 Source: vivo, MediaTek*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101462 Discussion on R17 RLM/BFD relaxation**

*Type: discussion For: Discussion  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101463 Simulation results for R17 RLM/BFD relaxation**

*Type: other For: Information  
 Source: vivo*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101542 Discussion on UE measurement relaxation for RLM and/or BFD**

*Type: discussion For: Discussion  
 Source: OPPO*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2101685 Discussion on feasibility of RLM/BFD measurement relaxation scheme for power saving enhancements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102239 Updated simulation assumptions for evaluating UE power saving for RLM and BM**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In contribution contains updated simulation assumptions for evluating UE power saving for RLM and BM.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102240 Simulation results on UE power saving for RLM and BM**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we present the SINR difference (delta SINR) for RLM-RS based on SSB for different relaxation factors and UE speeds as in agreed in previous meeting.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102241 Discussions on UE power saving for RLM and BM**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we continue the discussions on release 17 UE power saving based on the identified issues from last meeting.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

**R4-2102587 Discussion on RLM/BFD Relaxation**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

According to the Work Plan in [4], in the upcoming RAN4 meeting beneficial relaxation method and corresponding criteria for UE to enter the relaxation mode should be discussed. In the following sections our company’s views on the issues to be studied are

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

### 11.10 NR Sidelink enhancement [NRSL\_enh]

### 11.11 NR repeater

## 12 Rel-17 Study Items for NR

### 12.1 Study on enhanced test methods for FR2 in NR [FS\_FR2\_enhTestMethods]

### 12.2 Study on supporting NR from 52.6 GHz to 71 GHz [FS\_NR\_52\_to\_71GHz]

### 12.3 Study on Efficient utilization of licensed spectrum that is not aligned with existing NR channel bandwidths [FS\_NR\_eff\_BW\_util]

### 12.4 Study on extended 600MHz NR band [FS\_NR\_600MHz\_ext]

### 12.5 Study on high power UE (power class 2) for one NR FDD band [FS\_NR\_PC2\_UE\_FDD]

## 13 Rel-17 Work Items for LTE

## 14 Rel-17 Study Items for LTE

## 15 Liaison and output to other groups

### 15.1 R17 related

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**Email discussion: [98e][239] R17\_LS\_RS\_for\_Scell\_activation**

**R4-2103478 Email discussion summary: [98e][239] R17\_LS\_RS\_for\_Scell\_activation***Type: other For: Information  
Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

GTW session discussion conclusions (date)

1st round email discussion conclusions

2nd round email discussion conclusions

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**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**.

**R4-2101543 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**.

**R4-2102894 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

## 16 Revision of the Work Plan

### 16.1 Simplification of band combinations in RAN4 specifications

### 16.2 R17 new proposals

#### 16.2.1 Spectrum related

#### 16.2.2 Non-spectrum related

### 16.3 Others

## 17 Any other business

**R4-2102236 Inclusive language review in TS 36.133**

*Type: CR For: Agreement  
 36.133 v17.0.0 CR-7035 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Inclusive language review of TS 36.133 according to decision in RP-202179.

**Discussion:**

[report of discussion]

**Decision:** The document was **not treated**.

## 18 Close of the E-meeting

**R4-21AAAAA Way forward on XXXX**

*Type: other For: Approval  
 Source: TBA*

**Abstract:**

**Discussion:**

**Decision: Return to.**