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

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## 5 Rel-15 and previous release maintenance

### 5.1 Rel-15 New radio access technology

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

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**Email discussion: [100-e][201] NR\_RRM\_maintenance\_R15\_Core**

**R4-2115191 Email discussion summary: [100-e][201] NR\_RRM\_maintenance\_R15\_Core**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

**2nd round email discussion conclusions**

**WF/LS for approval**

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

**R4-2111967 Draft CR on CSI-RS based beam failure detection requirements**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: CATT*

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

**R4-2111968 Draft CR on CSI-RS based beam failure detection requirements**

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 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: CATT*

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

**R4-2111969 Draft CR on CSI-RS based beam failure detection requirements**

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 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

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

**R4-2112084 Clarification on PSCell change requirements**

*Type: discussion For: Approval  
 Source: Apple*

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

**R4-2112085 CR for PSCell change requirements (R15)**

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 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Apple*

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

**R4-2112086 CR for PSCell change requirements (R16)**

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 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

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

**R4-2112087 CR for PSCell change requirements (R17)**

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 Source: Apple*

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

**R4-2112111 Draft CR for minimum requirement at transitions for BFD R15**

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

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

**R4-2112112 Draft CR for minimum requirement at transitions for BFD R16**

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 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Apple*

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

**R4-2112113 Draft CR for minimum requirement at transitions for BFD R17**

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 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

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

**R4-2112953 Draft CR for editorial modification 38.133**

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 38.133 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: LG Electronics UK*

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

**R4-2112955 Draft CR for editorial modification 38.133**

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 38.133 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics UK*

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

**R4-2113537 draft CR on CSSF for SCell measurements outside gaps in R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: vivo*

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

**R4-2113538 draft CR on CSSF for SCell measurements outside gaps in R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

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

**R4-2113539 draft CR on CSSF for SCell measurements outside gaps in R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: vivo*

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

**R4-2113632 draftCR on TS38.133 inter-frequency without gaps - r15**

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

**Abstract:**

This draft CR corrects UE measurement without gap for effective MGRP

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

**R4-2113633 draftCR on TS38.133 inter-frequency without gap -r16**

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

**Abstract:**

This draft CR corrects UE measurement without gap for effective MGRP

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

**R4-2113634 draftCR on TS38.133 inter-frequency without gap -r17**

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

**Abstract:**

This draft CR corrects UE measurement without gap for effective MGRP

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

**R4-2114092 CR on clarification on SMTC determination in DC 36133 R15**

*Type: draftCR For: Endorsement  
 36.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2114093 CR on clarification on SMTC determination in DC 36133 R16**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2114094 CR on clarification on SMTC determination in DC 36133 R17**

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

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

**R4-2114095 CR on clarification on SMTC determination in DC 38133 R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2114096 CR on clarification on SMTC determination in DC 38133 R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2114097 CR on clarification on SMTC determination in DC 38133 R17**

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

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

**R4-2114155 CR on TS38.133 for applicable DRX cycle in EN-DC, NR SA, NE-DC, and NR-DC**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

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

**R4-2114156 CR on TS38.133 for applicable DRX cycle in EN-DC, NR SA, NE-DC, and NR-DC**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

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

**R4-2114157 CR on TS38.133 for applicable DRX cycle in EN-DC, NR SA, NE-DC, and NR-DC**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

**R4-2114252 CR on measurement requirements, SCell activation and definition of reference point for UL timing 38133**

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

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

**R4-2114253 CR on measurement requirements, SCell activation and definition of reference point for UL timing 38133 R16**

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

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

**R4-2114254 CR on measurement requirements, SCell activation and definition of reference point for UL timing 38133 R17**

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

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

**R4-2114255 CR on RSTD measurement requirements 36133**

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

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

**R4-2114256 CR on RSTD measurement requirements 36133 R16**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**R4-2114257 CR on RSTD measurement requirements 36133 R17**

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

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

**R4-2114447 Correction to reference point defintion for UE timing in TS 38.133**

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

**Abstract:**

Definition of reference point for UE timing error is clarified

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

**R4-2114448 Correction to reference point defintion for UE timing in TS 38.133**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson, Nokia Shanghai Bell, Intel*

**Abstract:**

Definition of reference point for UE timing error is clarified

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

**R4-2114449 Correction to reference point defintion for UE timing in TS 38.133**

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

**Abstract:**

Definition of reference point for UE timing error is clarified

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

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

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**Email discussion: [100-e][202] NR\_RRM\_maintenance\_R15\_Perf**

**R4-2115192 Email discussion summary: [100-e][202] NR\_RRM\_maintenance\_R15\_Perf**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Comments** |
|  |  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111846 Draft CR to specify the number of data RBs allocated**

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

**Abstract:**

Specify the number of data RBs allocated (66RBs). (Refer to the comment to the CR R4-2108883 in topic summary #202 R4-2108371)

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

**R4-2111847 Draft CR to specify the number of data RBs allocated**

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

**Abstract:**

Specify the number of data RBs allocated (66RBs). (Refer to the comment to the CR R4-2108883 in topic summary #202 R4-2108371)

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

**R4-2111848 Draft CR to specify the number of data RBs allocated**

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

**Abstract:**

Specify the number of data RBs allocated (66RBs). (Refer to the comment to the CR R4-2108883 in topic summary #202 R4-2108371)

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

**R4-2111849 Clarification of SNR values in FR2 BFD-LR Test cases**

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

**Abstract:**

The assumptions used when choosing the SNR levels for BFD-LR test cases are not stated in the test cases.

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

**R4-2111850 Clarification of SNR values in FR2 BFD-LR Test cases**

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

**Abstract:**

The assumptions used when choosing the SNR levels for BFD-LR test cases are not stated in the test cases.

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

**R4-2111851 Clarification of SNR values in FR2 BFD-LR Test cases**

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

**Abstract:**

The assumptions used when choosing the SNR levels for BFD-LR test cases are not stated in the test cases.

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

**R4-2111852 Generic channel BW configuration definition for RRM CA TCs**

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

**Abstract:**

We provided our views on the issue with the channel BW configuration shortage for RRM test cases.

Associated draft CR: R4-2111853-1855

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

**R4-2111853 Definition of generic channel BW configurations for RRM CA tests**

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

**Abstract:**

Associated discussion paper: R4-2111852

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

**R4-2111854 Definition of generic channel BW configurations for RRM CA tests**

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

**Abstract:**

Associated discussion paper: R4-2111852

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

**R4-2111855 Definition of generic channel BW configurations for RRM CA tests**

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

**Abstract:**

Associated discussion paper: R4-2111852

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

**R4-2111856 Draft CR to update RMC and SCell SSB burst position for A.6.5.2.1**

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

**Abstract:**

As discussed at R4-2108850 and agreed in the WF(R4-2108038), RMC for TDD15KHz and SSB burst position of SCell will be updated.

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

**R4-2111857 Draft CR to update RMC and SCell SSB burst position for A.6.5.2.1**

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

**Abstract:**

As discussed at R4-2108850 and agreed in the WF(R4-2108038), RMC for TDD15KHz and SSB burst position of SCell will be updated.

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

**R4-2111858 Draft CR to update RMC and SCell SSB burst position for A.6.5.2.1**

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

**Abstract:**

As discussed at R4-2108850 and agreed in the WF(R4-2108038), RMC for TDD15KHz and SSB burst position of SCell will be updated.

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

**R4-2111859 Update NR PSCell Addition and Release Delay RRM Test cases**

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

**Abstract:**

FR2 PSCell Addition and Release delay Test cases cannot be implemented reliably with current parameter values, whilst still meeting side conditions.

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

**R4-2111860 Update NR PSCell Addition and Release Delay RRM Test cases**

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

**Abstract:**

FR2 PSCell Addition and Release delay Test cases cannot be implemented reliably with current parameter values, whilst still meeting side conditions.

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

**R4-2111861 Update NR PSCell Addition and Release Delay RRM Test cases**

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

**Abstract:**

FR2 PSCell Addition and Release delay Test cases cannot be implemented reliably with current parameter values, whilst still meeting side conditions.

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

**R4-2111862 Update FR2 SCell Activation and Deactivation Delay Test cases**

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

**Abstract:**

Test cases A.5.5.3.5 and A.7.5.3.2 contain a contradiction during T1, where the SCell is stated to be powered off, but the OTA parameters table specify the SCell as on during all time periods.

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

**R4-2111863 Update FR2 SCell Activation and Deactivation Delay Test cases**

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

**Abstract:**

Test cases A.5.5.3.5 and A.7.5.3.2 contain a contradiction during T1, where the SCell is stated to be powered off, but the OTA parameters table specify the SCell as on during all time periods.

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

**R4-2111864 Update FR2 SCell Activation and Deactivation Delay Test cases**

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

**Abstract:**

Test cases A.5.5.3.5 and A.7.5.3.2 contain a contradiction during T1, where the SCell is stated to be powered off, but the OTA parameters table specify the SCell as on during all time periods.

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

**R4-2111865 Update inter-frequency FR1-FR2 SS-RSRP measurement accuracy Test cases**

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

**Abstract:**

Test 1 of FR1-FR2 SS-RSRP measurement accuracy Test cases cannot be implemented reliably in RAN5 with current parameter values, whilst still meeting side conditions.

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

**R4-2111866 Update inter-frequency FR1-FR2 SS-RSRP measurement accuracy Test cases**

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

**Abstract:**

Test 1 of FR1-FR2 SS-RSRP measurement accuracy Test cases cannot be implemented reliably in RAN5 with current parameter values, whilst still meeting side conditions.

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

**R4-2111867 Update inter-frequency FR1-FR2 SS-RSRP measurement accuracy Test cases**

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

**Abstract:**

Test 1 of FR1-FR2 SS-RSRP measurement accuracy Test cases cannot be implemented reliably in RAN5 with current parameter values, whilst still meeting side conditions.

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

**R4-2111868 Update FR2 CSI-RS-based RLM Test cases**

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

**Abstract:**

FR2 CSI-RS-based RLM Test cases cannot be implemented reliably in RAN5 with current parameter values, whilst still meeting side conditions.

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

**R4-2111869 Update FR2 CSI-RS-based RLM Test cases**

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

**Abstract:**

FR2 CSI-RS-based RLM Test cases cannot be implemented reliably in RAN5 with current parameter values, whilst still meeting side conditions.

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

**R4-2111870 Update FR2 CSI-RS-based RLM Test cases**

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

**Abstract:**

FR2 CSI-RS-based RLM Test cases cannot be implemented reliably in RAN5 with current parameter values, whilst still meeting side conditions.

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

**R4-2111871 CR to the propagation condition of NR cell for InterRAT test cases**

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

**Abstract:**

Correction of propagation condition to TDLA30-70 for NR Cell.

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

**R4-2111872 CR to the propagation condition of NR cell for InterRAT test cases**

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

**Abstract:**

Correction of propagation condition to TDLA30-70 for NR Cell.

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

**R4-2111873 CR to the propagation condition of NR cell for InterRAT test cases**

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

**Abstract:**

Correction of propagation condition to TDLA30-70 for NR Cell.

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

**R4-2111877 Introduction of new BWP definition for FR2 SSB SCS240kHz conditions**

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

**Abstract:**

Added new BW configuration (48RB) for SCS 240 kHz.

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

**R4-2111878 Introduction of new BWP definition for FR2 SSB SCS240kHz conditions**

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

**Abstract:**

Added new BW configuration (48RB) for SCS 240 kHz.

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

**R4-2111879 Introduction of new BWP definition for FR2 SSB SCS240kHz conditions**

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

**Abstract:**

Added new BW configuration (48RB) for SCS 240 kHz.

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

**R4-2111880 CR to EUTRA-NR Inter-RAT SFTD measurement delay**

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

**Abstract:**

Current config2 and config3 (LTE FDD-NR TDD condition) definition of cells (asynchronous) is inconsistent with other TCs (NSA, Inter-RAT).

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

**R4-2111881 CR to EUTRA-NR Inter-RAT SFTD measurement delay**

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

**Abstract:**

Current config2 and config3 (LTE FDD-NR TDD condition) definition of cells (asynchronous) is inconsistent with other TCs (NSA, Inter-RAT).

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

**R4-2111882 CR to EUTRA-NR Inter-RAT SFTD measurement delay**

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

**Abstract:**

Current config2 and config3 (LTE FDD-NR TDD condition) definition of cells (asynchronous) is inconsistent with other TCs (NSA, Inter-RAT).

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

**R4-2111883 CR to General Test Parameters of SCell Activation and Deactivation Delay TCs**

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

**Abstract:**

TRS settings for Config 1 and 3 are not specified in the general test parameters table in A.6.5.3.1 (also used for A.6.5.3.2, and A.6.5.3.3).

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

**R4-2111884 CR to General Test Parameters of SCell Activation and Deactivation Delay TCs**

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

**Abstract:**

TRS settings for Config 1 and 3 are not specified in the general test parameters table in A.6.5.3.1 (also used for A.6.5.3.2, and A.6.5.3.3).

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

**R4-2111885 CR to General Test Parameters of SCell Activation and Deactivation Delay TCs**

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

**Abstract:**

TRS settings for Config 1 and 3 are not specified in the general test parameters table in A.6.5.3.1 (also used for A.6.5.3.2, and A.6.5.3.3).

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

**R4-2111886 Correction of CSI reporting periodicity for L1RSRP reporting in FR2**

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

**Abstract:**

Updated L1-RSRP reporting period to 320 slots from 640 slots

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

**R4-2111887 Correction of CSI reporting periodicity for L1RSRP reporting in FR2**

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

**Abstract:**

Updated L1-RSRP reporting period to 320 slots from 640 slots

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

**R4-2111888 Correction of CSI reporting periodicity for L1RSRP reporting in FR2**

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

**Abstract:**

Updated L1-RSRP reporting period to 320 slots from 640 slots

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

**R4-2111889 Correction of SSB configuration for interruption test cases in FR2**

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

**Abstract:**

Correct SSB.1 FR2 to SSB.3 FR2

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

**R4-2111890 Correction of SSB configuration for interruption test cases in FR2**

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

**Abstract:**

Correct SSB.1 FR2 to SSB.3 FR2

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

**R4-2111891 Correction of SSB configuration for interruption test cases in FR2**

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

**Abstract:**

Correct SSB.1 FR2 to SSB.3 FR2

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

**R4-2111899 Correction to Radio Link Monitoring Scheduling Restrictions in FR2**

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

**Abstract:**

Missing implementation from the previously agreed CR (R4-2108884) needs to be corrected. Only Rel-16 spec needs the correction.

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

**R4-2111900 Correction of Io in event triggered reporting test**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Anritsu Corporation*

**Abstract:**

Missing implementation of Io value from the previously agreed CR (R4-2108888) needs to be corrected.

Only Rel-17 spec needs the correction.

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

**R4-2112475 Correction on configurations in SA FR2 tests in R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

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

**R4-2112476 Correction on configurations in SA FR2 tests in R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

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

**R4-2112477 Correction on configurations in SA FR2 tests in R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

**R4-2112526 Correction on the FR2 inter-frequency relative RSRP accuracy in R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

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

**R4-2112527 Correction on the FR2 inter-frequency relative RSRP accuracy in R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

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

**R4-2112528 Correction on the FR2 inter-frequency relative RSRP accuracy in R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

**R4-2112529 Discussion on the FR2 inter-frequency relative RSRP accuracy**

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

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

**R4-2112536 Correction on configurations in SCell activation tests in R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: MediaTek inc.*

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

**R4-2112537 Correction on configurations in SCell activation tests in R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: MediaTek inc.*

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

**R4-2112538 Correction on configurations in SCell activation tests in R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

**R4-2112613 Draft-CR to TS 38.133: Missing CORESET RMCs in several test cases (Rel 15)**

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

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

**R4-2112614 Draft-CR to TS 38.133: Missing CORESET RMCs in several test cases (Rel 16)**

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

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

**R4-2112615 Draft-CR to TS 38.133: Missing CORESET RMCs in several test cases (Rel 17)**

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

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

**R4-2112616 Draft-CR to TS 38.133: Corrections to PRACH test cases (Rel 15)**

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

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

**R4-2112617 Draft-CR to TS 38.133: Corrections to PRACH test cases (Rel 16)**

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

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

**R4-2112618 Draft-CR to TS 38.133: Corrections to PRACH test cases (Rel 17)**

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

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

**R4-2112619 Draft-CR to TS 38.133: Corrections to re-establishment test cases (Rel 15)**

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

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

**R4-2112620 Draft-CR to TS 38.133: Corrections to re-establishment test cases (Rel 16)**

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

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

**R4-2112621 Draft-CR to TS 38.133: Corrections to re-establishment test cases (Rel 17)**

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

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

**R4-2112622 Draft-CR to TS 38.133: Corrections to radio link monitoring test cases (Rel 15)**

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

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

**R4-2112623 Draft-CR to TS 38.133: Corrections to radio link monitoring test cases (Rel 16)**

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

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

**R4-2112624 Draft-CR to TS 38.133: Corrections to radio link monitoring test cases (Rel 17)**

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

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

**R4-2112625 Draft-CR to TS 38.133: Corrections to periodic measurement test cases (Rel 15)**

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

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

**R4-2112626 Draft-CR to TS 38.133: Corrections to periodic measurement test cases (Rel 16)**

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

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

**R4-2112627 Draft-CR to TS 38.133: Corrections to periodic measurement test cases (Rel 17)**

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

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

**R4-2112647 Views on principles to handle FR1 FR2 test case**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2112692 Rel-15 Cat-F CR to Interruptions during measurements on deactivated NR SCC in FR1**

*Type: CR For: Agreement  
 38.133 v15.14.0 CR-2187 rev Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

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

**R4-2112697 OTA testability issue**

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

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

**R4-2113145 draftCR to clarify timing reference point for UE UL timing test cases**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: (Rel-15)  
  
 Source: Intel Corporation*

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

**R4-2113146 draftCR to clarify timing reference point for UE UL timing test cases**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: Intel Corporation*

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

**R4-2113147 draftCR to clarify timing reference point for UE UL timing test cases**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

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

**R4-2113474 Correction of Link recovery test parameter tables**

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

**Abstract:**

This draft CR correct the parameters for link recovery tests.

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

**R4-2113475 Correction of Link recovery test parameter tables**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This draft CR correct the parameters for link recovery tests.

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

**R4-2113476 Correction of Link recovery test parameter tables**

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

**Abstract:**

This draft CR correct the parameters for link recovery tests.

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

**R4-2113477 Correction of A3-offset setting in FR2 SA event triggered reporting tests**

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

**Abstract:**

This draft CR corrects A3-offset setting in FR2 SA event triggered reporting tests

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

**R4-2113478 Correction of FR2 L1-RSRP measurement tests**

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

**Abstract:**

This draft CR corrects FR2 L1-RSRP measurement tests.

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

**R4-2113479 Correction of FR2 L1-RSRP measurement tests**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

This draft CR corrects FR2 L1-RSRP measurement tests.

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

**R4-2113480 Correction of FR2 L1-RSRP measurement tests**

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

**Abstract:**

This draft CR corrects FR2 L1-RSRP measurement tests.

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

**R4-2113852 Correction to interruption during measurement on deactivated SCell test cases\_R15**

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

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

**R4-2113859 Maintenance CR for test cases - R15**

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

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

**R4-2113860 Maintenance CR for test cases - R16 Cat A**

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

**Abstract:**

This is a Cat A CR.

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

**R4-2113861 Maintenance CR for test cases - R17 Cat A**

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

**Abstract:**

This is a Cat A CR.

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

**R4-2113957 Correction to Inter-RAT SFTD measurement test cases\_R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113958 Correction to Inter-RAT SFTD measurement test cases\_R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113959 Correction to Inter-RAT SFTD measurement test cases\_R17**

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

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

**R4-2113960 Correction to interruption due to BWP switching test cases\_R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113961 Correction to interruption due to BWP switching test cases\_R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113962 Correction to interruption due to BWP switching test cases\_R17**

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

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

**R4-2113963 Correction to PSCell addition test cases\_R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113964 Correction to PSCell addition test cases\_R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113965 Correction to PSCell addition test cases\_R17**

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

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

**R4-2113966 Correction to radio link monitoring test cases\_R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113967 Correction to radio link monitoring test cases\_R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113968 Correction to radio link monitoring test cases\_R17**

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

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

**R4-2113969 Correction to SCell activation test cases\_R15**

*Type: draftCR For: Endorsement  
 38.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113970 Correction to SCell activation test cases\_R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2113971 Correction to SCell activation test cases\_R17**

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

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

**R4-2114098 Discussion on RRM performance maintenance**

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

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

**R4-2114164 On Rel-15 TCs with mix of carriers in LTE/FR1 and FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on LTE/FR1+FR2 test case design, and how to address testability in Rel-15 test cases. Follow-up on WF R4-2108038.

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

**R4-2114165 DraftCR (R15) Applicability of test cases with LTE/FR1+FR2**

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

**Abstract:**

DraftCR on applicability of test cases with mix of LTE/FR1 and FR2 carriers.

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

**R4-2114166 DraftCR (R16) Applicability of test cases with LTE/FR1+FR2**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

DraftCR on applicability of test cases with mix of LTE/FR1 and FR2 carriers.

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

**R4-2114167 DraftCR (R17) Applicability of test cases with LTE/FR1+FR2**

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

**Abstract:**

DraftCR on applicability of test cases with mix of LTE/FR1 and FR2 carriers.

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

**R4-2114359 Draft-CR to TS 38.133: Corrections to propagation condition for inter-RAT test cases (Rel 15)**

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

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

**R4-2114360 Draft-CR to TS 38.133: Corrections to propagation condition for inter-RAT test cases (Rel 16)**

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

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

**R4-2114361 Draft-CR to TS 38.133: Corrections to propagation condition for inter-RAT test cases (Rel 17)**

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

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

**R4-2114442 Correction to n261 RRM performance requirements in Rel-15**

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

**Abstract:**

The CR corrects the min SSB\_RP level and missing antenna gain for n261 in power class 1

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

**R4-2114443 Correction to n261 RRM performance requirements in Rel-16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR corrects the min SSB\_RP level and missing antenna gain for n261 in power class 1

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

**R4-2114444 Correction to n261 RRM performance requirements in Rel-17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR corrects the min SSB\_RP level for n261 in power class 1. The antenna gain is present in Rel-17 so Rel-17 correction is not identical to Rel-15

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

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

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**Email discussion: [100-e][203] NR\_NewRAT\_Positioning**

**R4-2115193 Email discussion summary: [100-e][203] NR\_NewRAT\_Positioning**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2113443 Draft CR on 38.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 38.171 v16.1.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2113444 Draft CR on 36.171 requirements for support of A-GNSS**

*Type: draftCR For: Endorsement  
 36.171 v16.2.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

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

**R4-2112138 Remaining issues on testing of A-GNSS Sensitivity requirements in NR and LTE**

*Type: discussion For: Discussion  
 Source: Apple*

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

**R4-2113303 Discussion on Frequency Bands for testing of A-GNSS Sensitivity requirements in NR and LTE**

*Type: discussion For: Approval  
 Source: Xiaomi*

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

**R4-2114208 Frequency bands for testing of A-GNSS sensitivity requirements**

*Type: CR For: Agreement  
 38.171 v16.1.0 CR-0013 rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

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

**R4-2114210 Frequency bands for testing of A-GNSS sensitivity requirements**

*Type: CR For: Agreement  
 36.171 v16.2.0 CR-0022 rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

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

##### 5.1.10.2 Other

**R4-2112478 On the number of satellites for 3-GNSS scenarios**

*Type: discussion For: Discussion  
 Source: MediaTek Inc., Rohde & Schwarz*

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

**R4-2112479 CR on satellite allocation**

*Type: draftCR For: Endorsement  
 36.171 v15.1.0 CR- rev Cat: F (Rel-15)  
  
 Source: MediaTek Inc., Rohde & Schwarz*

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

**R4-2112480 CR on satellite allocation**

*Type: draftCR For: Endorsement  
 36.171 v16.2.0 CR- rev Cat: A (Rel-16)  
  
 Source: MediaTek Inc., Rohde & Schwarz*

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

**R4-2112481 CR on satellite allocation**

*Type: draftCR For: Endorsement  
 38.171 v15.3.0 CR- rev Cat: F (Rel-15)  
  
 Source: MediaTek Inc., Rohde & Schwarz*

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

**R4-2112482 CR on satellite allocation**

*Type: draftCR For: Endorsement  
 38.171 v16.1.0 CR- rev Cat: A (Rel-16)  
  
 Source: MediaTek Inc., Rohde & Schwarz*

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

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

#### 5.2.2 Other WIs or R16 TEI

##### 5.2.2.3 RRM requirements

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**Email discussion: [100-e][204] LTE\_RRM\_maintenance\_NWM**

**R4-2115194 Email discussion summary: [100-e][204] LTE\_RRM\_maintenance\_NWM**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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###### 5.2.2.3.1 RRM core requirements

**R4-2114258 CR to eMTC RRM requirements R14**

*Type: draftCR For: Endorsement  
 36.133 v14.19.0 CR- rev Cat: F (Rel-14)  
  
 Source: Huawei, HiSilicon*

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

**R4-2114259 CR to eMTC RRM requirements R15**

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

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

**R4-2114260 CR to eMTC RRM requirements R16**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**R4-2114261 CR to eMTC RRM requirements R17**

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

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

**R4-2114262 CR to eDRX RRM requirements R13**

*Type: draftCR For: Endorsement  
 36.133 v13.21.0 CR- rev Cat: F (Rel-13)  
  
 Source: Huawei, HiSilicon*

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

**R4-2114263 CR to eDRX RRM requirements R14**

*Type: draftCR For: Endorsement  
 36.133 v14.19.0 CR- rev Cat: F (Rel-14)  
  
 Source: Huawei, HiSilicon*

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

**R4-2114264 CR to eDRX RRM requirements R15**

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

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

**R4-2114265 CR to eDRX RRM requirements R16**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**R4-2114266 CR to eDRX RRM requirements R17**

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

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

###### 5.2.2.3.2 RRM performance requirements

**R4-2114136 Correction of RMC of NB-TDD test cases R15**

*Type: draftCR For: Endorsement  
 36.133 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**R4-2114137 Correction of RMC of NB-TDD test cases R16**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**R4-2114138 Correction of RMC of NB-TDD test cases R17**

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

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

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

### 6.1 NR maintenance

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

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

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**Email discussion: [100-e][206] NR\_unlic\_RRM\_1**

**R4-2115196 Email discussion summary: [100-e][206] NR\_unlic\_RRM\_1**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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###### 6.1.1.5.1 General

**R4-2112114 On remaining issue for NR-U core**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-16)  
  
 Source: Apple*

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

**R4-2112115 Draft CR on SSB availability for RLM and L1-RSRP R16**

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

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

**R4-2112116 Draft CR on SSB availability for RLM and L1-RSRP R17**

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

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

**R4-2112483 CR on availability of SSB occasions in R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

**R4-2113108 Discussion on availability of SSB occasions**

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

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

**R4-2113109 CR on availability of SSB occasions in R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

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

###### 6.1.1.5.2 RRC connection mobility control

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

**R4-2114099 CR on maintenance of SCell activation requirements for NR-U R16**

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

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

**R4-2114100 CR on maintenance of SCell activation requirements for NR-U R17**

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

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

###### 6.1.1.5.4 Timing

###### 6.1.1.5.5 Other requirements

**R4-2113225 Correction of NR-U inter-frequency cell identification and measurements requirements**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113226 Correction of NR-U inter-frequency cell identification and measurements requirements**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113461 Availability of SSB monitoring occasions**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the remaining open issues for SSB monitoring capability.

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

**R4-2113462 Draft CR: Clarification of availability of SSB monitoring occasions for RLM and BM**

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

**Abstract:**

This draft clarifies the availability of SSB monitoring occasions for RLM and BM.

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

**R4-2113463 Draft CR: Clarification of availability of SSB monitoring for RLM and BM**

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

**Abstract:**

This draft clarifies the availability of SSB monitoring for RLM and BM.

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

**R4-2113878 Availability of SSB occasions for RLM/BFD/L1-RSRP**

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

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

**R4-2114101 CR on maintenance of measurement requirements for NR-U R16**

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

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

**R4-2114102 CR on maintenance of measurement requirements for NR-U R17**

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

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

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

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**Email discussion: [100-e][207] NR\_unlic\_RRM\_2**

**R4-2115197 Email discussion summary: [100-e][207] NR\_unlic\_RRM\_2**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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###### 6.1.1.6.1 General

###### 6.1.1.6.2 Measurement accuracy requirements

###### 6.1.1.6.3 Test cases

6.1.1.6.3.1 General

**R4-2113227 On remaining details of CCA model for NR-U RRM tests**

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

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

**R4-2113228 Correction of CCA model for TCs with DRX**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113229 Correction of CCA model for TCs with DRX**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113464 Draft CR: Correction of RMC for NR-U test cases**

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

**Abstract:**

This draft CR updates RMCs used for NR-U RRM test cases.

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

**R4-2113465 Draft CR: Correction of RMC for NR-U test cases**

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

**Abstract:**

This draft CR updates RMCs used for NR-U RRM test cases.

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

**R4-2114103 CR on CORESET RMC for NR-U R16**

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

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

**R4-2114104 CR on CORESET RMC for NR-U R17**

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

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

6.1.1.6.3.2 RRC IDLE cell re-selection

**R4-2114078 Correction to cell reselection test**

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

**Abstract:**

Corrections to NR-U cell reselection test.

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

**R4-2114080 Correction to cell reselection test**

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

**Abstract:**

Corrections to NR-U cell reselection test.

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

**R4-2114105 CR on TC of cell reselection for NR-U R16**

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

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

**R4-2114106 CR on TC of cell reselection for NR-U R16**

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

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

6.1.1.6.3.3 HO (delay and interruptions)

**R4-2113230 Draft CR Correction of Handover TCs**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113231 Draft CR Correction of Handover TCs**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2114077 Correction to NR-U handover test**

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

**Abstract:**

Corrections to NR-U handover test.

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

**R4-2114079 Correction to NR-U handover test**

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

**Abstract:**

Corrections to NR-U handover test.

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

**R4-2114107 CR on TC of HO for NR-U R16**

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

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

**R4-2114108 CR on TC of HO for NR-U R17**

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

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

6.1.1.6.3.4 RRC Re-establishment

**R4-2113232 Draft CR RRC Re-establishment with CCA**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113233 Draft CR RRC Re-establishment with CCA**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2114109 CR on TC of RRC Re-establishment for NR-U R16**

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

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

**R4-2114110 CR on TC of RRC Re-establishment for NR-U R17**

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

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

**R4-2114433 Correction to RRC re-establishment tests for NR-U in 38.133**

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

**Abstract:**

The CR corrects test case on RRC re-establishment in NR-U

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

**R4-2114434 Correction to RRC re-establishment tests for NR-U in 38.133**

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

**Abstract:**

The CR corrects test case on RRC re-establishment in NR-U

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

6.1.1.6.3.5 RRC Connection Release with Redirection

**R4-2113234 Discussion on RRC connection release with redirection RRM requirements with CCA**

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

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

**R4-2113235 Correction on release with redirection TCs for unlicensed operation**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113236 Correction on release with redirection TCs for unlicensed operation**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2114111 CR on TC of RRC Release with Redirection for NR-U R16**

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

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

**R4-2114112 CR on TC of RRC Release with Redirection for NR-U R17**

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

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

**R4-2114435 Correction to RRC re-direction tests for NR-U in 38.133**

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

**Abstract:**

The CR corrects test case on RRC re-redirection in NR-U

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

**R4-2114436 Correction to RRC re-direction tests for NR-U in 38.133**

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

**Abstract:**

The CR corrects test case on RRC re-redirection in NR-U

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

6.1.1.6.3.6 Random access

**R4-2113468 Draft CR: Correction of random access procedure test cases for NR-U**

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

**Abstract:**

This draft CR updates the test cases of random access procedure in NR-U.

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

**R4-2113469 Draft CR: Correction of random access procedure test cases for NR-U**

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

**Abstract:**

This draft CR updates the test cases of random access procedure in NR-U.

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

**R4-2114113 CR on TC of RA for NR-U R16**

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

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

**R4-2114114 CR on TC of RA for NR-U R17**

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

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

6.1.1.6.3.7 Timing (transmit timing and TA)

**R4-2114115 CR on TC of timing requirements for NR-U R16**

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

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

**R4-2114116 CR on TC of timing requirements for NR-U R16**

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

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

**R4-2114437 Correction to UE timing tests for NR in 38.133**

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

**Abstract:**

The CR corrects test cases on UE transmit timing and timing advance

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

**R4-2114438 Correction to UE timing tests for NR in 38.133**

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

**Abstract:**

The CR corrects test cases on UE transmit timing and timing advance

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

6.1.1.6.3.8 BWP switching delay and interruptions

**R4-2114117 CR on TC of BWP switch requirements for NR-U R16**

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

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

**R4-2114118 CR on TC of BWP switch requirements for NR-U R17**

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

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

**R4-2114439 Correction to BWP switching tests for NR-U in 38.133**

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

**Abstract:**

The CR corrects test cases on BWP switching.

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

**R4-2114440 Correction to BWP switching tests for NR-U in 38.133**

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

**Abstract:**

The CR corrects test cases on BWP switching.

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

6.1.1.6.3.9 PSCell addition/release (delay and interruption)

**R4-2114119 CR on TC of PSCell addition and release for NR-U R16**

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

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

**R4-2114120 CR on TC of PSCell addition and release for NR-U R17**

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

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

6.1.1.6.3.10 SCell activation/deactivation (delay and interruption)

**R4-2113237 Discussion on SCell activation/deactivation delay performance requirements with CCA**

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

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

**R4-2113238 TC SCell activation/deactivation for unlicensed bands**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113239 TC SCell activation/deactivation for unlicensed bands**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2114121 CR on TC of SCell activation for NR-U R16**

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

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

**R4-2114122 CR on TC of SCell activation for NR-U R17**

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

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

**R4-2114172 DraftCR (R16) Correction of test cases for SCell (de)activation**

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

**Abstract:**

Maintenance of test cases for SCell (de)activation in NR-U.

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

**R4-2114173 DraftCR (R17) Correction of test cases for SCell (de)activation**

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

**Abstract:**

Maintenance of test cases for SCell (de)activation in NR-U.

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

6.1.1.6.3.11 Other interruptions

**R4-2114170 DraftCR (R16) Correction of test cases for interruptions**

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

**Abstract:**

Maintenance of interruption test cases for NR-U.

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

**R4-2114171 DraftCR (R17) Correction of test cases for interruptions**

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

**Abstract:**

Maintenance of interruption test cases for NR-U.

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

6.1.1.6.3.12 RLM

**R4-2113240 Discussion on RLM performance requirements with CCA**

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

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

**R4-2113241 Draft CR correction RLM TCs for NR-U**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113242 Draft CR correction RLM TCs for NR-U**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2114123 CR on RLM for NR-U R16**

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

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

**R4-2114124 CR on RLM for NR-U R17**

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

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

6.1.1.6.3.13 Beam management (BFD and link recovery)

**R4-2113243 Discussion on beam failure detection and link recovery requirements with CCA**

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

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

**R4-2113244 Correction of beam failure detection and link recovery TCs under CCA**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113245 Correction of beam failure detection and link recovery TCs under CCA**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113466 Draft CR: Correction of beam management test cases for NR-U**

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

**Abstract:**

This draft CR introduces the test cases for bean failure recovery and L1-RSRP reporting in NR-U.

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

**R4-2113467 Draft CR: Correction of beam management test cases for NR-U**

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

**Abstract:**

This draft CR introduces the test cases for bean failure recovery and L1-RSRP reporting in NR-U.

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

**R4-2114125 Discussion on TC for BFD and CBD for NR-U**

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

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

**R4-2114126 CR on TC of BFD and CBD for NR-U R16**

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

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

**R4-2114127 CR on TC of BFD and CBD for NR-U R17**

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

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

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

**R4-2114128 CR on TC of inter-RAT measurement procedure for NR-U R16**

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

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

**R4-2114129 CR on TC of inter-RAT measurement procedure for NR-U R17**

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

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

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

**R4-2113246 Correction of inter-frequency measurement procedures TCs under CCA**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113247 Correction of inter-frequency measurement procedures TCs under CCA**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

6.1.1.6.3.16 SFTD measurement procedure

**R4-2114130 CR on TC of inter-RAT SFTD measurement procedure for NR-U R16**

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

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

**R4-2114131 CR on TC of inter-RAT SFTD measurement procedure for NR-U R17**

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

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

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

**R4-2113470 Addition of SS-SINR/SS-RSRQ measurement accuracy tests for NR-U**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the introduction of the SS-RSRQ/SS-SINR measurement accuracy test cases for NR-U.

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

**R4-2113471 Draft CR: Addition of SS-SINR/SS-RSRQ measurement accuracy tests for NR-U**

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

**Abstract:**

This draft CR introduces the SS-RSRQ/SS-SINR measurement accuracy test cases for NR-U.

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

**R4-2113472 Draft CR: Addition of SS-SINR/SS-RSRQ measurement accuracy tests for NR-U**

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

**Abstract:**

This draft CR introduces the SS-RSRQ/SS-SINR measurement accuracy test cases for NR-U.

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

**R4-2114132 CR on TC of intra-frequency measurement accuracy for NR-U R16**

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

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

**R4-2114133 CR on TC of intra-frequency measurement accuracy for NR-U R17**

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

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

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

6.1.1.6.3.19 SFTD measurement accuracy

6.1.1.6.3.20 Other

**R4-2113248 Removal of TCI state switching TC for unlicensed bands**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113249 Removal of TCI state switching TC for unlicensed bands**

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

**Abstract:**

Correction of RRM test cases for unlicensed operation.

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

**R4-2113879 Test case with UL CCA failure**

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

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

**R4-2114134 CR on removing TCI switching TC for NR-U R16**

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

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

**R4-2114135 CR on removing TCI switching TC for NR-U R17**

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

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

#### 6.1.2 Integrated Access and Backhaul for NR

##### 6.1.2.3 RRM core requirements

**R4-2114431 Side conditions in IAB-MT RRC connection mobility requirements in TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR on side conditions (SSB Es/Iot and SSP\_RP) for IAB-MT requirements

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

##### 6.1.2.4 RRM performance requirements

**R4-2114432 Correction to IAB-MT RRM tests in TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR to correct IAB-MT performance requirements

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

#### 6.1.3 5G V2X with NR sidelink

##### 6.1.3.2 RRM requirements (38.133)

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

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

###### 6.1.4.2.1 Early Measurement reporting

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

**R4-2112078 On direct SCell activation**

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

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

**R4-2112079 CR on direct SCell activation (R16)**

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

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

**R4-2112080 CR on direct SCell activation (R17)**

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

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

**R4-2114010 SCell and Direct SCell activation delay**

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

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

**R4-2114011 Draft CR for Direct SCell activation delay**

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

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

**R4-2114012 Draft CR for Direct SCell activation delay**

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

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

**R4-2114267 CR on direct SCell activation requirements**

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

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

**R4-2114268 CR on direct SCell activation requirements R17**

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

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

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

###### 6.1.4.3.1 Early Measurement reporting

**R4-2114013 Draft CR for Idle Mode measurements of inter-RAT CA candidate cells for early reporting (TC#3)**

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

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

**R4-2114014 Draft CR for Idle Mode measurements of inter-RAT CA candidate cells for early reporting (TC#3)**

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

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

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

**R4-2114168 DraftCR (R16) Clean-up of test cases for Direct SCell activation and SCell dormancy**

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

**Abstract:**

Maintenance of test cases for SCell dormancy and Direct SCell activation.

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

**R4-2114169 DraftCR (R17) Clean-up of test cases for Direct SCell activation and SCell dormancy**

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

**Abstract:**

Maintenance of test cases for SCell dormancy and Direct SCell activation.

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

#### 6.1.5 Enhancements on MIMO for NR

##### 6.1.5.1 RRM requirements (38.133)

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**Email discussion: [100-e][208] NR\_eMIMO\_RRM\_NWM**

**R4-2115198 Email discussion summary: [100-e][208] NR\_eMIMO\_RRM\_NWM**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Comments** |
|  |  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

**2nd round email discussion conclusions**

**WF/LS for approval**

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

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

**R4-2112098 Draft CR to 38.133 on applicability of requirements to multi-TRxP - R16**

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

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

**R4-2112099 Draft CR to 38.133 on applicability of requirements to multi-TRxP - R17**

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

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

**R4-2112687 Discussion on applicability of MRTD requirements to multi-TRxP**

*Type: discussion For: Discussion  
 Source: Apple*

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

**R4-2112837 Discussion on R16 MRTD requirement for Multi-TRxP Scenario**

*Type: discussion For: Discussion  
 Source: Samsung*

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

**R4-2112838 draft CR Revision on R16 MRTD Requirement for Multi-TRxP Scenario**

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

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

**R4-2112839 draft CR Revision on R16 MRTD Requirement for Multi-TRxP Scenario (Rel-17)**

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

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

**R4-2113473 MRTD/MTTD requirements for Rel-16 multi-TRP transmission scheme**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses MRTD/MTTD requirements for Rel-16 multi-TRP transmission schemes.

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

**R4-2113811 Discussion on remaining issues for NR eMIMO core requirements**

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

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

**R4-2114418 On applicability of MRTD requirements for Rel-16 NR eMIMO**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

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

**R4-2112100 Discussion on testcase for PL-RS activation**

*Type: discussion For: Discussion  
 Source: Apple*

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

**R4-2113530 Remaining Issues of Test Method for PL-RS Activation Delay**

*Type: discussion For: Discussion  
 Source: Samsung*

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

**R4-2113812 Discussion on testbility of pathloss-RS activation delay**

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

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

**R4-2113862 On defining test cases for PL RS activation delay**

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

**Abstract:**

In thie paper we discuss the feasible methods to define test cases for PL RS activation delay.

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

**R4-2113863 [CR] Test cases for applicable timing for PL RS activated by MAC-CE**

*Type: CR For: Agreement  
 38.133 v16.8.0 CR-2194 rev Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

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

**R4-2113864 [CR] Test cases for applicable timing for PL RS activated by MAC-CE**

*Type: CR For: Agreement  
 38.133 v17.2.0 CR-2195 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This is a Cat A CR.

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

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

###### 6.1.5.1.3 Others

**R4-2112534 Correction on the typo in the L1-SINR test case in R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

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

**R4-2112535 Correction on the typo in the L1-SINR test case in R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

##### 6.1.5.2 Others

#### 6.1.6 NR Positioning Support

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

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**Email discussion: [100-e][209] NR\_pos\_1**

**R4-2115199 Email discussion summary: [100-e][209] NR\_pos\_1**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Comments** |
|  |  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

**2nd round email discussion conclusions**

**WF/LS for approval**

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

**R4-2114205 Draft CR: Corrections to NR positioning measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**R4-2114206 Draft CR: Corrections to NR positioning measurement requirements**

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

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

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

**R4-2111983 Discussion on PRS RSTD measurement requirements**

*Type: discussion For: Discussion  
 Source: CATT*

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

**R4-2111985 Draft CR on PRS RSTD measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2111986 Draft CR on PRS RSTD measurement requirements**

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

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

**R4-2112540 Remaining issues on PRS RSTD measurement requirements**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2112563 Draft CR to 38.133 correction to PRS RSTD measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

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

**R4-2112564 Draft CR to 38.133 correction to PRS RSTD measurement requirements**

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

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

**R4-2113153 Discussion on NR PRS RSTD measurement report requirements**

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

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

**R4-2113257 Discussion on the measurement period for RSTD**

*Type: discussion For: Discussion  
 Source: OPPO*

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

**R4-2113258 R16 CR to TS 38.133 on RSTD measurements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: OPPO*

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

**R4-2113259 R17 CR to TS 38.133 on RSTD measurements**

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

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

**R4-2114193 On per-UE measurement gaps for NR positioning**

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

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

**R4-2114233 Remaining issues on NR positioning RSTD requirements**

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

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

**R4-2114269 Discussion on remaining issues for RSTD measurement requirements**

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

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

**R4-2114270 CR to update RSTD measurement requirements**

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

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

**R4-2114271 CR to update RSTD measurement requirements R17**

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

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

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

**R4-2112541 Remaining issues on PRS-RSRP measurement requirements**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2112565 Draft CR to 38.133 correction on PRS-RSRP measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

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

**R4-2112566 Draft CR to 38.133 correction on PRS-RSRP measurement requirements**

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

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

**R4-2114234 Remaining issues on PRS-RSRP measurement requirements**

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

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

**R4-2114272 Discussion on remaining issues for PRS-RSRP measurement requirements**

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

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

**R4-2114273 CR to update PRS-RSRP measurement requirements**

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

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

**R4-2114274 CR to update PRS-RSRP measurement requirements R17**

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

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

**R4-2114452 On PRS-RSRP measurement requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On PRS-RSRP measurement requirements

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

**R4-2114453 PRS-RSRP measurement requirements**

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

**Abstract:**

Correction to PRS-RSRP measurement requirements.

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

**R4-2114454 PRS-RSRP measurement requirements**

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

**Abstract:**

On open issues related to PRS-RSRP measurement requirements.

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

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

**R4-2111984 Discussion on UE Rx-Tx time difference measurement requirements**

*Type: discussion For: Discussion  
 Source: CATT*

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

**R4-2112542 Remaining issues on UE RX-TX timing difference measurement requirements**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2112567 Draft CR to 38.133 correction on UE Rx-Tx timing difference measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

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

**R4-2112568 Draft CR to 38.133 correction on UE Rx-Tx timing difference measurement requirements**

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

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

**R4-2113260 Discussion on the measurement period for UE Rx-Tx time difference**

*Type: discussion For: Discussion  
 Source: OPPO*

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

**R4-2113261 R16 CR to TS 38.133 on UE Rx-Tx time difference measurements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: OPPO*

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

**R4-2113262 R17 CR to TS 38.133 on UE Rx-Tx time difference measurements**

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

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

**R4-2114194 On UE Rx-Tx measurement requirements**

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

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

**R4-2114235 Remaining issues on UE Rx-Tx TD measurement requirements**

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

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

**R4-2114275 Discussion on remaining issues for UE Rx-Rx time difference measurement requirements**

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

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

**R4-2114276 CR to update UE Rx-Tx time difference measurement requirements**

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

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

**R4-2114277 CR to update UE Rx-Tx time difference measurement requirements R17**

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

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

**R4-2114455 On UE Rx-Tx measurement requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Correction to UE Rx-Tx measurement requirements

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

**R4-2114456 UE Rx-Tx measurement requirements**

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

**Abstract:**

Correction to UE Rx-Tx measurement requirements

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

**R4-2114457 UE Rx-Tx measurement requirements**

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

**Abstract:**

Correction to UE Rx-Tx measurement requirements

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

###### 6.1.6.1.4 Other requirements

**R4-2111987 Draft CR on ECID measurement requirements and AoA/ZoA report mapping**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2111988 Draft CR on ECID measurement requirements and AoA/ZoA report mapping**

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

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

**R4-2112543 Remaining issues on general requirements for NR positioning**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2112569 Draft CR to 38.133 correction on CCSF for NR measurements for positioning**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

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

**R4-2112570 Draft CR to 38.133 correction on CCSF for NR measurements for positioning**

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

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

**R4-2113263 Discussion on general PRS measurement requirements**

*Type: discussion For: Discussion  
 Source: OPPO*

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

**R4-2114065 Discussion on other PRS requirements**

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

**Abstract:**

Discussion on other PRS requirements

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

**R4-2114066 Selection of positioning frequency layer for MG occasion**

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

**Abstract:**

CR on other PRS requirements

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

**R4-2114067 Selection of positioning frequency layer for MG occasion**

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

**Abstract:**

CR on other PRS requirements

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

**R4-2114195 On general PRS measurement requirements**

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

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

**R4-2114278 Discussion on CSSF and requirement applicability for PRS measurement**

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

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

**R4-2114279 CR on CSSF and requirement applicability for PRS measurement**

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

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

**R4-2114280 CR on CSSF and requirement applicability for PRS measurement R17**

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

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

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

###### 6.1.6.2.1 General

**R4-2114451 Positioning RRM performance requirements in Rel-17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

NR Positioning RRM performance requirements for Rel-16 version was agreed in R4-2108300 and Rel-17 version (cat A) in R4-2108301 (RAN4#99-e). But some requirements in cat A CR was not implemented in Rel-17

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

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

6.1.6.2.2.1 General

**R4-2112547 Additional link level simulation results for NR positioning**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2114281 Additional simulation results for PRS measurement performance**

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

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

**R4-2114458 Link level simulation results for RSTD, PRS RSRP and UE Rx-Tx time difference**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Link level simulation results for RSTD, PRS RSRP and UE Rx-Tx time difference based on agreements in RAN4#98bis-e

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

6.1.6.2.2.2 Measurement accuracy requirements

**R4-2113156 Summary of link level simulation results for RSTD, PRS RSRP and UE Rx-Tx time difference**

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

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

**R4-2114203 Draft CR: Corrections to NR positioning performance requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**R4-2114204 Draft CR: Corrections to NR positioning performance requirements**

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

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

6.1.6.2.2.3 Test cases

6.1.6.2.2.2.1 PRS RSTD

**R4-2112544 Remaining issues on PRS RSTD accuracy requirements**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2113154 Discussion on NR PRS RSTD measurement accuracy requirements**

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

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

**R4-2113264 Discussion on PRS RSTD accuracy requirements**

*Type: discussion For: Discussion  
 Source: OPPO*

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

**R4-2114196 On PRS-RSTD measurement accuracy requirements**

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

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

**R4-2114282 Discussion on accuracy requirements for RSTD measurement**

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

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

**R4-2114283 CR on accuracy requirements for RSTD measurement**

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

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

**R4-2114284 CR on accuracy requirements for RSTD measurement R17**

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

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

6.1.6.2.2.4 Other

6.1.6.2.2.2.2 PRS RSRP

**R4-2111989 Discussion on PRS RSRP accuracy requirements**

*Type: discussion For: Discussion  
 Source: CATT*

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

**R4-2111991 DraftCR on PRS-RSRP accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2111992 DraftCR on PRS-RSRP accuracy requirements**

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

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

**R4-2112545 Remaining issues on PRS-RSRP accuracy requirements**

*Type: discussion For: Discussion  
 Source: vivo*

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

6.1.6.2.2.3.1 General

**R4-2113091 Draft-CR to TS 38.133: Correction to PRS configuration for positioning test cases (Rel 16)**

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

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

**R4-2113092 Draft-CR to TS 38.133: Correction to PRS configuration for positioning test cases (Rel 17)**

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

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

6.1.6.2.2.2.2 PRS RSRP

**R4-2113265 Discussion on PRS-RSRP accuracy requirements**

*Type: discussion For: Discussion  
 Source: OPPO*

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

**R4-2113869 Measurement Accuracy Requirements for PRS RSRP**

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

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

**R4-2113871 [CR] accuracy requirements for PRS-RSRP**

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

**Abstract:**

In this draft CR we propose to specify absolute and relative accuracy requirements for PRS-RSRP under extreme conditions. The change proposed in this draft CR can be merged with other CRs discussing detailed values in the table.

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

**R4-2113872 [CR] accuracy requirements for PRS-RSRP**

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

**Abstract:**

This is a Cat A CR.

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

**R4-2114285 Discussion on accuracy requirements for PRS-RSRP measurement**

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

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

6.1.6.2.2.3.1 General

**R4-2114287 Discussion on RRM test case for UE positioning requirements**

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

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

**R4-2114288 CR to update PRS RMC for positioning tests**

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

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

**R4-2114289 CR to update PRS RMC for positioning tests R17**

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

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

6.1.6.2.2.2.3 UE Rx-Tx time difference

**R4-2111990 Discussion on UE Rx-Tx time difference accuracy requirements**

*Type: discussion For: Discussion  
 Source: CATT*

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

6.1.6.2.2.3.2 Measurement requirements

**R4-2111993 DraftCR on test case for PRS-RSRP measurement requirements for FR2 in SA**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2111994 DraftCR on test case for PRS-RSRP measurement requirements for FR2 in SA**

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

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

6.1.6.2.2.2.3 UE Rx-Tx time difference

**R4-2112546 Remaining issues on UE Rx-Tx timing difference accuracy requirements**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2113155 Discussion on UE RX-TX time difference measurement accuracy requirements**

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

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

6.1.6.2.2.3.2 Measurement requirements

**R4-2113445 Draft CR on test case for RSTD measurement requirements in SA**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2113446 Draft CR on test case for RSTD measurement requirements in SA**

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

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

6.1.6.2.2.2.3 UE Rx-Tx time difference

**R4-2113870 Measurement Accuracy Requirements for UE Rx-Tx time difference**

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

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

**R4-2114197 On UE Rx-Tx measurement accuracy requirements**

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

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

**R4-2114286 Discussion on accuracy requirements for UE Rx-Tx time difference measurement**

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

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

6.1.6.2.2.3.2 Measurement requirements

**R4-2114290 CR to update TC for PRS-RSRP measurement requirements for FR1 in SA**

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

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

**R4-2114291 CR to update TC for PRS-RSRP measurement requirements for FR1 in SA R17**

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

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

6.1.6.2.2.2.3 UE Rx-Tx time difference

**R4-2114459 On UE Rx-Tx measurement accuracy requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

On UE Rx-Tx measurement accuracy requirement related to remaining issues

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

**R4-2114460 UE Rx-Tx measurement accuracy requirements**

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

**Abstract:**

UE Rx-Tx measurement accuracy requirement are updated to completed remaining issues

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

**R4-2114461 UE Rx-Tx measurement accuracy requirements**

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

**Abstract:**

UE Rx-Tx measurement accuracy requirement are updated to completed remaining issues

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

6.1.6.2.2.3.3 Accuracy requirements

**R4-2113447 Draft CR on test case for RSTD accuracy requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2113448 Draft CR on test case for RSTD accuracy requirements**

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

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

**R4-2114292 CR to update TC for RSTD measurement accuracy for FR1 and FR2 in SA**

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

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

**R4-2114293 CR to update TC for RSTD measurement accuracy for FR1 and FR2 in SA R17**

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

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

###### 6.1.6.2.3 gNB requirements

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**Email discussion: [100-e][211] NR\_pos\_3**

**R4-2115201 Email discussion summary: [100-e][211] NR\_pos\_3**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Comments** |
|  |  |  |  |

**Existing tdocs**

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| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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6.1.6.2.3.1 General

**R4-2114044 Summary of link level simulation results of SRS RSRP and gNB TOA**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Updated link level simulation results collection

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

6.1.6.2.3.2 SRS-RSRP requirements

**R4-2114045 SRS-RSRP requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses SRS-RSRP measurement accuracy requirements

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

**R4-2114047 Corrections to gNB SRS-RSRP measurement in 38.133**

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

**Abstract:**

This draft CR updates the SRS-RSRP measurement accuracy requirements

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

**R4-2114048 Corrections to gNB SRS-RSRP measurement in 38.133**

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

**Abstract:**

This draft CR updates the SRS-RSRP measurement accuracy requirements

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

**R4-2114294 CR to update SRS-RSRP requirements**

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

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

**R4-2114295 CR to update SRS-RSRP requirements R17**

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

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

6.1.6.2.3.3 gNB Rx-Tx time difference requirements

**R4-2114046 gNB Rx-Tx time difference requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses gNB Rx-Tx measurement accuracy requirements

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

**R4-2114049 Corrections to gNB Rx-Tx measurement in 38.133**

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

**Abstract:**

This draft CR updates the gnB Rx-Tx measurement accuracy requirements

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

**R4-2114050 Corrections to gNB Rx-Tx measurement in 38.133**

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

**Abstract:**

This draft CR updates the gnB Rx-Tx measurement accuracy requirements

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

**R4-2114296 Discussion on remaining issues for gNB Rx-Tx requirements**

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

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

**R4-2114297 CR to update gNB Rx-Tx time difference requirements**

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

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

**R4-2114298 CR to update gNB Rx-Tx time difference requirements R17**

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

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

#### 6.1.7 NR RRM requirement enhancement

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**Email discussion: [100-e][212] NR\_RRM\_Enh**

**R4-2115202 Email discussion summary: [100-e][212] NR\_RRM\_Enh**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Comments** |
|  |  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 6.1.7.1 RRM core requirements

**R4-2112117 Correction on SMTC alignment for multiple SCell activation R16**

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

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

**R4-2112118 Correction on SMTC alignment for multiple SCell activation R17**

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

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

**R4-2112532 Correction on the SRS carrier switching in EN-DC and NE-DC in R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

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

**R4-2112533 Correction on the SRS carrier switching in EN-DC and NE-DC in R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

**R4-2112685 CR for multiple Scell activation requirements (R16)**

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

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

**R4-2112686 CR for multiple Scell activation requirements (R17)**

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

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

**R4-2112693 Rel-16 Cat-A CR to FR1 Multiple SCell activation requirement for SSB-less and TCI activation**

*Type: CR For: Agreement  
 38.133 v16.8.0 CR-2188 rev Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**R4-2112694 Rel-17 Cat-A CR to FR1 Multiple SCell activation requirement for SSB-less and TCI activation**

*Type: CR For: Agreement  
 38.133 v17.2.0 CR-2189 rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

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

**R4-2112695 Rel-16 Cat-F CR to FR1 Multiple SCell activation requirement for SSB-less and TCI activation**

*Type: CR For: Agreement  
 38.133 v16.8.0 CR-2190 rev Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

MCC: Is the work item code NR\_RRM\_enh-Core correctly spelled on the work item code field?

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

**R4-2112696 Rel-17 Cat-A CR to FR1 Multiple SCell activation requirement for SSB-less and TCI activation**

*Type: CR For: Agreement  
 38.133 v17.2.0 CR-2191 rev Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

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

**R4-2113635 draftCR on TS38.133 mandatory gaps - r16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson, Mediatek Inc.*

**Abstract:**

This draft CR corrects mandatory gap signalling which should applied for NR SA and NR DC

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

**R4-2113636 draftCR on TS38.133 mandatory gaps - r17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson, Mediatek Inc.*

**Abstract:**

This draft CR corrects mandatory gap signalling which should applied for NR SA and NR DC

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

**R4-2113850 Discussion on mandatory gap pattern in R-16**

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

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

**R4-2114211 CR on RRC-based BWP switch on multiple CCs in Rel16**

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

**Abstract:**

Resubmission of agreed CR R4-2108234 in RAN4#99e

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

**R4-2114212 CR on RRC-based BWP switch on multiple CCs in Rel17 - Cat A**

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

**Abstract:**

Resubmission of agreed Cat-A R17 CR R4-2111039 in RAN4#99e which was wrong allocated to Rel16.

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

##### 6.1.7.2 RRM performance requirements

**R4-2112081 On test applicability for mandatory gap patterns**

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

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

**R4-2112082 CR for test applicability for mandatory gap patterns (R16)**

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

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

**R4-2112083 CR for test applicability for mandatory gap patterns (R17)**

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

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

**R4-2112265 On Mandatory GP Test**

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

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

**R4-2114015 Discussion on test cases for new mandatory GPs**

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

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

**R4-2114163 On testing in R16 of R15 mandatory gaps**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Continued discussion on test case applicability in Rel-16 for test cases with Rel-15 mandatory gaps.

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

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

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**Email discussion: [100-e][213] NR\_CSIRS\_L3meas**

**R4-2115203 Email discussion summary: [100-e][213] NR\_CSIRS\_L3meas**

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

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
|  |  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

**2nd round email discussion conclusions**

**WF/LS for approval**

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

**R4-2111980 Discussion on core part maintenance open issues**

*Type: discussion For: Discussion  
 Source: CATT*

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

**R4-2111981 Draft CR on CSI-RS based measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

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

**R4-2111982 Draft CR on CSI-RS based measurement requirements**

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

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

**R4-2112119 Draft CR on CSSF for CSI-RS L3 RRM R16**

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

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

**R4-2112120 Draft CR on CSSF for CSI-RS L3 RRM R17**

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

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

**R4-2112395 Remain issues on CSI-RS L3 measurement**

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

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

**R4-2112396 CR on 2 windows for CSI-RS L3 measurement R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

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

**R4-2112397 CR on 2 windows for CSI-RS L3 measurement R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

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

**R4-2112515 Draft CR on requirements applicability for CSI-RS based L3 measurement**

*Type: draftCR For: Approval  
 38.133 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: CMCC*

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

**R4-2112516 Draft CR on requirements applicability for CSI-RS based L3 measurement**

*Type: draftCR For: Approval  
 38.133 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

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

**R4-2112539 Remaining issues on CSI-RS L3 measurement core requirements**

*Type: discussion For: Discussion  
 Source: vivo*

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

**R4-2112879 Open issues on the CSI-RS based measurement requirements**

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

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

**R4-2112880 38.133 CR on the timing offset impact to CSI-RS based measurement**

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

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

**R4-2112881 38.133 Cat.A CR on the timing offset impact to CSI-RS based measurement**

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

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

**R4-2112882 38.133 CR on the CSI-RS resource periodicity**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2112883 38.133 Cat.A CR on the CSI-RS resource periodicity**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2112884 38.133 CR on the CSI-RS based measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2112885 38.133 Cat. A CR on the CSI-RS based measurement requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114299 Discussion on remaining issues in CSI-RS core requirements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114300 CR on CSI-RS measurement window**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114301 CR on CSI-RS measurement window R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 6.1.8.2 RRM performance requirements (38.133)

###### 6.1.8.2.1 General

###### 6.1.8.2.2 Measurement accuracy requirements

6.1.8.2.2.1 CSI-RSRP requirements

6.1.8.2.2.2 CSI-RSRQ requirements

6.1.8.2.2.3 CSI-SINR requirements

###### 6.1.8.2.3 Test cases

6.1.8.2.3.1 General

6.1.8.2.3.2 Intra-frequency measurement

6.1.8.2.3.3 Inter-frequency measurement

6.1.8.2.3.4 Measurement performance

#### 6.1.9 Maintenance for other WIs

##### 6.1.9.3 RRM requirements

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**Email discussion: [100-e][205] NR\_RRM\_maintenance\_R16**

**R4-2115195 Email discussion summary: [100-e][205] NR\_RRM\_maintenance\_R16**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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###### 6.1.9.3.1 RRM core

**R4-2111961 Draft CR on UE power saving requirements**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111962 Draft CR on UE power saving requirements**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112513 Draft CR on measurement delay requirements for Rel-16 HST requirements**

*Type: draftCR For: Approval  
 38.133 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112514 Draft CR on measurement delay requirements for Rel-16 HST requirements**

*Type: draftCR For: Approval  
 38.133 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113266 Draft CR to TS 38.133 on RRC\_IDLE and RRC\_INACTIVE state mobility**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113515 TDD UL-DL and DL-UL switching in DAPS handover**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Further clarification on DL-to-UL and UL-to-DL switching time

**Decision:** The document was **not treated**.

**R4-2113516 CR on TS38.133 for dual active protocol stack handover**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev 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

**Decision:** The document was **not treated**.

**R4-2113517 CR on TS38.133 for dual active protocol stack handover**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev 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

**Decision:** The document was **not treated**.

**R4-2113813 Discussion on remaining issues for DAPS handover requirements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113814 Correction to DAPS handover requirements R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113815 Correction to DAPS handover requirements R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113826 Discussion on measurement requirements for relaxed carriers and non-relaxed carriers**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113827 Correction on measurement requiements in relaxed measurement**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113828 Correction on measurement requiements in relaxed measurement**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113884 [draft CR] maintenance for conditional PSCell change**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113885 [draft CR] maintenance for conditional PSCell change**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

This is a Cat A draft CR.

**Decision:** The document was **not treated**.

###### 6.1.9.3.2 RRM performance

**R4-2111963 Draft CR on cell reselection test case for UE Power saving**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111964 Draft CR on cell reselection test case for UE Power saving**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111965 Draft CR on cell reselection test case for HST in FR1**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111966 Draft CR on cell reselection test case for HST in FR1**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2114149 Correction to test cases of inter-RAT cell re-selection with relaxed measurement criterion R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114150 Correction to test cases of inter-RAT cell re-selection with relaxed measurement criterion R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114441 Missing n259 RRM performance requirements in Rel-17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR defines n259 RRM performance requirements, which were agreed in R4-2008911 (RAN4#95-e). But some of the requirements for n259 in Rel-17 are missing, while they are correctly implemented in Rel-16.

**Decision:** The document was **not treated**.

#### 6.1.10 R16 TEI

##### 6.1.10.3 RRM requirements

**R4-2112121 Discussion on scheduling restriction applicability for FR1 and FR1+FR2 inter-band CA**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112122 Draft CR on scheduling restriction applicability for FR1 and FR1+FR2 inter-band CA R16**

*Type: draftCR For: Endorsement  
 38.133 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112123 Draft CR on scheduling restriction applicability for FR1 and FR1+FR2 inter-band CA R17**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113855 draft CR to TS38.133[R16] Updating the introduction of EN-DC Interruption**

*Type: CR For: Agreement  
 38.133 v16.8.0 CR-2192 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

MCC: What is the CR number? It reads (nothing) on the cover page but the Tdoc is reserved for CR number 2192.

**Decision:** The document was **not treated**.

**R4-2113856 draft CR to TS38.133 Updating the introduction of EN-DC Interruption**

*Type: CR For: Agreement  
 38.133 v17.2.0 CR-2193 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

Session chair: CR submitted instead of Draft CR. If agreeable, the CR will be endorsed.

**Decision:** The document was **not treated**.

### 6.2 LTE maintenance and TEI

#### 6.2.3 RRM requirements

##### 6.2.3.1 RRM core requirements

**R4-2113512 TDD UL-DL and DL-UL switching in LTE DAPS handover**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Further clarification on DL-to-UL and UL-to-DL switching time

**Decision:** The document was **not treated**.

**R4-2113513 Correction on the synchronous condition for DAPS handover**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev 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.

**Decision:** The document was **not treated**.

**R4-2113514 Correction on the synchronous condition for DAPS handover**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev 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.

**Decision:** The document was **not treated**.

**R4-2113829 Clarification on asynchronous DAPS handover R16**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113830 Clarification on asynchronous DAPS handover R17**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114070 Discussion on RSS based RSRQ for LTE-MTC**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on proceeding for RSRQ for configured RSS-based RSRP

**Decision:** The document was **not treated**.

**R4-2114071 Applicability of CRS-based RSRQ for RSS-based RSRP measurement configuration**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CR to introduce CRS-based RSRQ in Rel-16.

**Decision:** The document was **not treated**.

**R4-2114072 Applicability of CRS-based RSRQ for RSS-based RSRP measurement configuration**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CR to introduce CRS-based RSRQ in Rel-16.

**Decision:** The document was **not treated**.

**R4-2114087 Discussions on RSS based RSRQ measurement for Rel-16 eMTC UE**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss the RSS based RSRQ measurement for release 16 eMTC based on the incoming LS and previous agreement captured in [1].

**Decision:** The document was **not treated**.

**R4-2114200 On RSRQ for RRS-based measurements for LTE-MTC**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2114302 Discussion on remaining issues in Rel-16 eMTC RRM**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114303 CR on remaining issues in Rel-16 eMTC RRM**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114304 CR on remaining issues in Rel-16 eMTC RRM R17**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 6.2.3.2 RRM performance requirements

### 6.3 Rel-16 UE feature list maintenance

**R4-2112261 On Mandatory GP Signaling**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

## 7 Rel-17 maintenance for both NR and LTE

## 8 Rel-17 spectrum related Work Items for NR

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**Email discussion: [100-e][214] Spectrum\_RRM**

**R4-2115204 Email discussion summary: [100-e][214] Spectrum\_RRM**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

**2nd round email discussion conclusions**

**WF/LS for approval**

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### 8.40 Introduction of FR2 FWA UE with maximum TRP of 23dBm for band n259

#### 8.40.2 RRM performance requirements

**R4-2114465 Analysis of RRM requirements for FR2 FWA for band n259**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper analyzes the RRM core and performance requirements for FR2 FWA UE with maximum TRP of 23dBm for band n259

**Decision:** The document was **not treated**.

**R4-2114466 RRM requirements for FR2 FWA for band n259 in 38.133**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR contains RRM core and performance requirements for FR2 FWA UE with maximum TRP of 23dBm for band n259

**Decision:** The document was **not treated**.

#### 8.40.3 Others

## 9 Rel-17 non-spectrum related work items for NR

### 9.3 RF requirements enhancement for NR frequency range 1 (FR1)

#### 9.3.3 RRM core requirements

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**Email discussion: [100-e][215] NR\_RF\_FR1\_enh\_RRM\_NWM**

**R4-2115205 Email discussion summary: [100-e][215] NR\_RF\_FR1\_enh\_RRM\_NWM**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.3.3.1 Tx switching requirements

**R4-2112185 RRM DL interruption requirements at UE switching between two uplink carriers and two uplink bands**

*Type: discussion For: Decision  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112229 DL interruption requirements for Rel-17 Tx switching**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2113142 Discussion on RRM requirements for UL switching in Rel-17**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113844 Discussion on DL interruption of R17 Tx switching enhancements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 9.4 NR RF requirement enhancements for frequency range 2 (FR2)

#### 9.4.6 RRM core requirements

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**Email discussion: [100-e][216] NR\_RF\_FR2\_req\_enh2\_RRM**

**R4-2115206 Email discussion summary: [100-e][216] NR\_RF\_FR2\_req\_enh2\_RRM**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.4.6.1 Inter-band DL CA requirements for CBM

**R4-2112426 Further discussion on RRM requirements for FR2 inter-band DL CA**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

###### 9.4.6.1.1 MRTD requirements

**R4-2112052 Discussions on Inter-band DL CA MRTD requirements for CBM**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2112339 Discussion on MRTD for FR2 inter-band CA based on CBM**

*Type: discussion For: (not specified)  
 Source: LG Electronics*

**Abstract:**

It discusses MRTD requirements for CBM based FR2 inter-band CA.

**Decision:** The document was **not treated**.

**R4-2112484 Discussion on CBM MRTD requirement for FR2 inter-band DL CA**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112637 Further views on RRM requirements for inter-band DL CA in NR FR2**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112702 MRTD requirements for CBM based Inter-band DL CA**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113200 Discussion on MRTD requirements for inter-band DL CA in FR2**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113267 Other RRM requirements for FR2 inter-band DL CA enhancements**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113524 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.

**Decision:** The document was **not treated**.

**R4-2113816 Discussion on MRTD requirements for FR2 inter-band DL CA with CBM**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114017 Discussion on FR2 inter-band DL CA MRTD requirements for CBM capable UE**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114192 Discussion on ways to reduce performance degradation for MRTD=3us for CBM UEs**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

###### 9.4.6.1.2 Other RRM requirements

**R4-2112703 RRM requirements for CBM based Inter-band DL CA**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113268 MRTD requirements for FR2 inter-band DL CA enhancements**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113507 Discussion on RRM requirements for FR2 inter-band CA for CBM**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

We provide our views on RRM requirements for FR2 inter-band CA for CBM UE.

**Decision:** The document was **not treated**.

**R4-2113817 Discussion on RRM requirements for FR2 inter-band DL CA with CBM**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114018 Discussion on RRM for FR2 RF**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.4.6.2 Inter-band UL CA for IBM

**R4-2112704 Inter-band UL CA for IBM**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113508 RRM requirements of FR2 inter-band UL CA for IBM**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

We provide our views on RRM requirements of FR2 inter-band UL CA for IBM UE

**Decision:** The document was **not treated**.

**R4-2113818 Discussion on RRM impacts for FR2 inter-band UL CA with IBM**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114019 Discussion on inter-band UL CA for IBM**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.4.6.3 UL gaps for self-calibration and monitoring

**R4-2112089 UL gaps for Tx power management RRM aspect**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112705 UL gaps for self-calibration and monitoring**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2114016 Network impact of UE FR2 UL Gap for UE Tx power enhancements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

### 9.8 Enhancement for NR high speed train scenario in FR1

#### 9.8.1 General

#### 9.8.2 RRM core requirements

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**Email discussion: [100-e][217] NR\_HST\_FR1\_enh\_RRM**

**R4-2115207 Email discussion summary: [100-e][217] NR\_HST\_FR1\_enh\_RRM**

*Type: other For: Information  
 Source: Moderator (CMCC)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.8.2.1 UE RRM core requirements for CA scenario

**R4-2112257 On NR FR1 HST RRM Requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

###### 9.8.2.1.1 Intra-frequency measurements

**R4-2111951 Discussion on remaining issues for intra-frequency measurement for NR FR1 HST RRM enhancement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112072 On R17 FR1 HST intra-frequency measurement**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112507 Discussion on NR HST RRM enhancement for CA**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112523 Discussion on Rel-17 HST in FR1 for intra-frequency measurement**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2113269 Intra-frequency measurement requirements for Rel17 FR1 HST**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113540 Discussion on intra-frequency measurement requirements for NR FR1 HST**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113831 Discussion on intra-frequency measurements for FR1 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114422 Discussion on various RRM aspects for FR1 HST CA**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

###### 9.8.2.1.2 Inter-frequency measurements

**R4-2111952 Discussion on remaining issues for inter-frequency measurement for NR FR1 HST RRM enhancement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112073 On R17 FR1 HST inter-frequency measurement**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112506 Discussion on NR HST RRM enhancement for inter-frequency measurement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112524 Discussion on Rel-17 HST in FR1 for inter-frequency measurement**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2113270 Inter-frequency measurement requirements for Rel17 FR1 HST**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113324 Inter-frequency measurements for HST RRM FR1**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Inter-frequency measurements for HST RRM FR1

**Decision:** The document was **not treated**.

**R4-2113541 Discussion on inter-frequency measurement requirements for NR FR1 HST**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113832 Discussion on inter-frequency measurements for FR1 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114423 Discussion on inter-frequency measurements for FR1 HST CA**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

###### 9.8.2.1.3 Other

**R4-2111953 Discussion on other remaining issues for NR FR1 HST RRM enhancement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112074 On remaining issues for R17 FR1 HST**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112505 Discussion on general requirements for FR1 HST RRM**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112525 Discussion on Rel-17 HST in FR1 for general issue**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2113271 General RRM requirements for Rel17 FR1 HST**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113325 Other RRM requirements enhancement for NR HST in FR1**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

other RRM requirements enhancement for NR HST in FR1

**Decision:** The document was **not treated**.

**R4-2113542 Discussion on R17 NR FR1 HST RRM requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113833 Discussion on remaining issues in FR1 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.8.3 UE demodulation requirements (38.101-4)

##### 9.8.3.1 General

**R4-2113455 Summary for FR1 HST demodulation results**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This spread sheet summarizes the simulation results of FR1 HST demodulation requirements.

**Decision:** The document was **not treated**.

##### 9.8.3.2 PDSCH requirements for CA scenarios

**R4-2112103 Discussion on PDSCH CA Requirements in HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112504 Discussion on FR1 HST UE demodulation for CA scenario**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112511 Simulation results for HST-DPS for CA scenario**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113131 Views on HST CA PDSCH performance requirements**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113192 Discussion on PDSCH requirements for CA scenarios**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113219 Views on HST CA tests for FR1**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2113454 Update of simulation results for CA PDSCH with HST**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contributions updates our simulation results for PDSCH demodulation for HST CA.

**Decision:** The document was **not treated**.

**R4-2113456 PDSCH demodulation requirements for CA with HST-SFN scenario**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the open issues of the PDSCH demodulation requirements for CA with HST-SFN scenario.

**Decision:** The document was **not treated**.

**R4-2113790 Discussion on PDSCH CA scenarios for NR UE HST FR1 performance requirements**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113791 Simulation results on PDSCH CA scenarios for NR UE HST FR1 performance requirements**

*Type: other For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114536 Views on FR1 HST PDSCH CA Tests**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

### 9.9 NR support for high speed train scenario in FR2

#### 9.9.4 RRM core requirements

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**Email discussion: [100-e][218] NR\_HST\_FR2\_RRM\_1**

**R4-2115208 Email discussion summary: [100-e][218] NR\_HST\_FR2\_RRM\_1**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**Email discussion: [100-e][219] NR\_HST\_FR2\_RRM\_2**

**R4-2115209 Email discussion summary: [100-e][219] NR\_HST\_FR2\_RRM\_2**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2112264 On NR FR2 HST RRM Requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

##### 9.9.4.1 General

**R4-2112498 Discussion on general RRM requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113213 General RRM requirements for HST FR2**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113326 General requirements impacted for HST FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

General requirements impacted for HST FR2

**Decision:** The document was **not treated**.

**R4-2114467 Detailed simulation analysis for FR2 HST**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution, we provide an extended set of system simulation results including scenarios with DPS.

**Decision:** The document was **not treated**.

**R4-2114568 LS on UE capability and network signalling for Rel-17 NR HST RRM**

*Type: LS out For: Approval  
 to RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.9.4.2 Number of RX beams

**R4-2111954 Discussion on number of RX beams for HST RRM in FR2**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112091 Discussion on number of Rx beam for FR2 HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113214 Discussion on RX beam number for HST FR2**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113272 Discussion on the Rx beams in RRM requirement**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113329 Number of RX beams for HST FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Number of RX beams for HST FR2

**Decision:** The document was **not treated**.

**R4-2113834 Discussion on number of Rx beam for FR2 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114186 Discussion on the number of RX beams for FR2 HST**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

##### 9.9.4.3 RRC Idle/Inactive and connected state mobility requirements

**R4-2111955 Discussion on RRC Idle/Inactive and connected state mobility requirements for HST RRM in FR2**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112092 Discussion on mobility requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112499 Discussion on mobility requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113215 Discussion on RRC Idle Inactive and Connected state mobility requirements for HST FR2**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113273 Discussion on mobility requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113328 RRC Idle/Inactive and connected state mobility requirements for HST FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

RRC Idle/Inactive and connected state mobility requirements for HST FR2

**Decision:** The document was **not treated**.

**R4-2113835 Discussion on RRC Idle/Inactive and connected state mobility requirements for HST in FR2**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.9.4.4 Timing requirements

**R4-2111956 Discussion on timing requirements for HST RRM in FR2**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112093 Discussion on timing requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113176 Timing requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113216 Discussion on Timing Requirement for HST FR2**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113274 Discussion on timing requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114180 On timing adjustment at beam change**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Our views on open issues in timing adjustment at beam change in HST FR2.

**Decision:** The document was **not treated**.

**R4-2114187 Discussion on timing requirements for HST FR2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114561 On HST FR2 UL Timing Requirements**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Decision:** The document was **not treated**.

##### 9.9.4.5 Signalling characteristics requirements

**R4-2111957 Discussion on Signalling characteristics requirements for HST RRM in FR2**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112094 Discussion on signaling characteristic requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113330 Signalling characteristics requirements for HST FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Signalling characteristics requirements for HST FR2

**Decision:** The document was **not treated**.

**R4-2113836 Discussion on signaling characteristics requirements for high speed train scenario in FR2**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114188 Discussion on the TCI state switching issue in HST FR2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

##### 9.9.4.6 Measurement procedure requirements

**R4-2111958 Discussion on measurement procedure requirements for HST RRM in FR2**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112095 Discussion on measurement procedure requirement for FR2 HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113327 Measurement procedure requirements for HST FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Measurement procedure requirements for HST FR2

**Decision:** The document was **not treated**.

**R4-2113837 Discussion on RRM requirements for high speed train scenario in FR2**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114586 Discussion on RRM measurement requirements for FR2 HST**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

### 9.10 Further RRM enhancement for NR and MR-DC

#### 9.10.1 General

#### 9.10.2 RRM core requirements

##### 9.10.2.1 SRS antenna port switching

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**Email discussion: [100-e][220] NR\_RRM\_enh2\_1**

**R4-2115210 Email discussion summary: [100-e][220] NR\_RRM\_enh2\_1**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111926 Further discussion on SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111927 The requirements for SRS antenna port switching**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Abstract:**

Session Chair: Draft CR R4-2111927 will not be treated

**Decision: Postponed.**

**R4-2112124 Discussion on SRS antenna port switching**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112177 Discussion on RRM requirements for SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112256 On SRS antenna switching**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2112414 Further discussion on RRM requirements for SRS antenna switching**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112512 Discussion on SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112522 Discussion on SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112675 Discussion on interruption due to SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2112877 Interruption requirements at SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113138 Discussion about SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113275 RRM requirements for SRS ant port switch**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114139 Discussion on requirements for SRS antenna switching**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114174 On RRM requirements for SRS antenna port switching**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Our views on open issues in SRS antenna port switching.

**Decision:** The document was **not treated**.

##### 9.10.2.2 HO with PSCell

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**Email discussion: [100-e][221] NR\_RRM\_enh2\_2**

**R4-2115211 Email discussion summary: [100-e][221] NR\_RRM\_enh2\_2**

*Type: other For: Information  
 Source: Moderator (vivo)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Comments** |
|  |  |  |  |

**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111928 Further discussion on HO with PSCell**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111929 The requirements for HO with PSCell**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112125 Discussion on RRM requirement for handover with PSCell**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112178 Discussion on RRM requirements for HO with PSCell**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112419 Further discussion on RRM requirements for handover with PSCell**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112501 Discussion on HO with PSCell**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113139 Discussion about HO with PSCell**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113202 Discussion on requirements for HO with PSCell**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113276 RRM requirements for HO with PSCell**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114140 Discussion on requirements for HO with PSCell**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114152 Discussion on HO with PSCell**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114175 On RRM requirements for handover with PSCell**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Our views on open issues in Handover with PSCell.

**Decision:** The document was **not treated**.

**R4-2114213 discussion on HO with PSCell**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

discussion on HO with PSCell

**Decision:** The document was **not treated**.

**R4-2114429 Views on HO w PSCell**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Updates on requirements due to RAN2 LS and progress

**Decision:** The document was **not treated**.

##### 9.10.2.3 PUCCH SCell activation/deactivation

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**Email discussion: [100-e][222] NR\_RRM\_enh2\_3**

**R4-2115212 Email discussion summary: [100-e][221] NR\_RRM\_enh2\_3**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111930 Further discussion on PUCCH SCell activation\_deactivation**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111931 The requirements for PUCCH SCell activation\_deactivation**

*Type: draftCR For: Endorsement  
 38.133 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112053 Discussions on PUCCH SCell Activation/Deactivation delay requirements**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2112126 Discussion on PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112420 Further discussion on SCell activation and deactication requirements for PUCCH SCell**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112510 Discussion on PUCCH SCell activation/deactivation**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112521 Discussion on PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112638 Further views on PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112701 PUCCH SCell activation and deactivation**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2112876 Discussion on the activation delay for deactivated PUCCH SCell**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113201 Discussion on PUCCH SCell activation and deactivation**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113277 RRM requirements for PUCCH SCell ActivationDeactivation**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114141 Discussion on requirements for PUCCH SCell activation**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114176 On RRM requirements for SCell (de)activation with PUCCH**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Our views on open issues in SCell activation/deactivation with PUCCH.

**Decision:** The document was **not treated**.

### 9.11 NR and MR-DC measurement gap enhancements

#### 9.11.1 General

#### 9.11.2 RRM core requirements

##### 9.11.2.1 Pre-configured MG pattern(s)

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**Email discussion: [100-e][224] NR\_MG\_enh\_2**

**R4-2115214 Email discussion summary: [100-e][223] NR\_MG\_enh\_2**

*Type: other For: Information  
 Source: Moderator (Intel)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111995 Discussion on pre-configured MG pattern**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112069 Further consideration on Pre-MG pattern**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112392 Discussion on pre-configured gap**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112421 Further discussion on pre-configured MG pattern for NR**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112509 Discussion on pre-configured MG pattern(s)**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112639 Further views on pre-configured MG patterns**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113150 Discussion on pre-configured measurement gap**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113208 Views on pre-configured MG patterns**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113278 On pre-configured MG pattern(s) for NR\_MG\_enh**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114063 Discussion on Pre-configured MG patterns**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on pre-configured MG patterns for NR

**Decision:** The document was **not treated**.

**R4-2114305 Discussion on pre-configured MG**

*Type: LS out For: Approval  
 to RAN2  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114427 Further views on pre-configured MG pattern(s)**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Supporting explicit indication of BWP and MG association

**Decision:** The document was **not treated**.

**R4-2114445 Further analysis of pre-configured measurement gap pattern**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

This document further analyzes RRM requirements for pre-configured MG in NR and MR-DC

**Decision:** The document was **not treated**.

##### 9.11.2.2 Multiple concurrent and independent MG patterns

================================================================================

**Email discussion: [100-e][223] NR\_MG\_enh\_1**

**R4-2115213 Email discussion summary: [100-e][223] NR\_MG\_enh\_1**

*Type: other For: Information  
 Source: Moderator (MediaTek)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**Existing tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111996 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111997 Draft LS on association between multiple MG patterns and use cases**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112070 On multiple concurrent and independent MG patterns**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112340 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: (not specified)  
 Source: LG Electronics*

**Abstract:**

It discusses issues related to multiple concurrent and independent MG patterns.

**Decision:** The document was **not treated**.

**R4-2112393 Discussion on concurrent gaps**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112422 Further discussion on multiple concurrent and independent MG patterns for NR**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112502 Discussion on multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112640 On multiple concurrent and independent MG patterns**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113151 Discussion on multiple and independent concurrent measurement gaps**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113209 Views on multiple concurrent and independent MGs**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113279 On multiple concurrent and independent MG patterns for NR\_MG\_enh**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113637 Discussion on Multiple concurrent MG patterns**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses concurrent gaps

**Decision:** The document was **not treated**.

**R4-2114023 Discussion on concurrent measurement gaps**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114306 Discussion on multiple concurrent MGs**

*Type: LS out For: Approval  
 to RAN2  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114426 Further views on multiple concurrent and independent MG**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Supporting compatibility of position measurement with multiple concurrent gap

**Decision:** The document was **not treated**.

##### 9.11.2.3 Network Controlled Small Gap

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**Email discussion: [100-e][225] NR\_MG\_enh\_3**

**R4-2115215 Email discussion summary: [100-e][225] NR\_MG\_enh\_3**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**Existing tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111998 Discussion on Network Controlled Small Gap (NCSG)**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112071 On network controlled small gap**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112394 Discussion on NCSG**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112503 Discussion on Network Controlled Small Gap**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112641 Further views on network controlled small gap patterns**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113152 Discussion on NCSG**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113210 Views on NCSG**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113280 On NCSG for NR\_MG\_enh**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114064 Discussion on Network Controlled Small Gaps for NR**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on introduction of NCSG for NR

**Decision:** The document was **not treated**.

**R4-2114307 Discussion on NCSG**

*Type: LS out For: Approval  
 to RAN2  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114428 Further views on network controlled small gap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Choice of VIL and other key issues

**Decision:** The document was **not treated**.

**R4-2114446 Further analysis of network controlled small gap**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

This document further analyzes RRM requirements for NCSG in NR and MR-DC

**Decision:** The document was **not treated**.

### 9.13 Solutions for NR to support non-terrestrial networks (NTN)

#### 9.13.5 RRM core requirements

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**Email discussion: [100-e][226] NR\_NTN\_solutions\_RRM\_1**

**R4-2115216 Email discussion summary: [100-e][226] NR\_NTN\_solutions\_RRM\_1**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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**Email discussion: [100-e][227] NR\_NTN\_solutions\_RRM\_2**

**R4-2115217 Email discussion summary: [100-e][227] NR\_NTN\_solutions\_RRM\_2**

*Type: other For: Information  
 Source: Moderator (Xiaomi)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.13.5.1 General and RRM requirements impacts

**R4-2111935 Further discussion on RRM requirements for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112485 Discussion on general RRM requirements in NTN**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112706 General and RRM requirements impacts**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113140 Discussion on the general and mobility requirements for NR NTN UE**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113331 General and RRM requirements for NTN**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

General and RRM requirements for NTN

**Decision:** The document was **not treated**.

**R4-2114308 Discussion on general issues for NTN RRM**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.13.5.2 GNSS-related requirements

**R4-2111936 Further Discussion on GNSS-related requirements**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112205 Discussion on NTN GNSS related issues**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112707 GNSS-related requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113523 UE positioing and timing requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion about impact on total timing error budget due to prositining.

**Decision:** The document was **not treated**.

**R4-2114309 Discussion on GNSS for NTN RRM**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114416 NTN – GNSS requirements**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we focus on the impact of GNSS accuracy on the UE requirements.

**Decision:** The document was **not treated**.

##### 9.13.5.3 Mobility requirements

**R4-2111937 Discussion on mobility requirements for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112127 Discussion on mobility for NR NTN**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112423 Further discussion on mobility requirements for NR NTN**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112680 Discussion on mobility related measurement for NR NTN**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2112708 Mobility requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113281 Discussion on mobility requirements for NR NTN**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113333 Mobility requirements for NTN**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Mobility requirements for NTN

**Decision:** The document was **not treated**.

**R4-2113842 Discussion on mobility requirements in NTN**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.13.5.4 Timing requirements

**R4-2111740 Discussion on timing requirements for NR NTN**

*Type: discussion For: (not specified)  
 Source: FGI, Asia Pacific Telecom, III, ITRI*

**Decision:** The document was **not treated**.

**R4-2111938 Further discussion on timing requirements for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112128 Discussion on timing requirements for NR NTN**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112206 Discussion on NTN timing requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112424 Further discussion on timing requirements for NR NTN**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112486 Discussion on timing requirements in NTN**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112682 Discussion on timing requirements for NR NTN**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2112709 Timing requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113141 Discussion on the timing requirements for NR NTN UE**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113203 Discussion on timing requirements for NTN**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113282 Discussion on timing requirements for NR NTN**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113453 Reply LS on NTN UL time and frequency synchronization requirements**

*Type: LS out For: Approval  
 to RAN1  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113521 Timing requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

RRM timing requirements for UE.

**Decision:** The document was **not treated**.

**R4-2113522 Reply LS to RAN1: LS on NTN UL time and frequency synchronization requirements (Timing)**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson*

**Abstract:**

Draft Reply LS to RAN1 regarding UE timing requirements.

**Decision:** The document was **not treated**.

**R4-2113819 Discussion on NTN timing related requirements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114417 NTN - interaction between closed and open loop TA adjustments**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114420 NTN UL Timing Accuracy**

*Type: discussion For: Discussion  
 Source: THALES*

**Abstract:**

The goal of this contribution is therefore to further clarify NTN UL timing synchronization requirements to be considered by NTN RAN4 work.

**Decision:** The document was **not treated**.

##### 9.13.5.5 Measurement procedure requirements

**R4-2111939 Discussion on measurement procedure requirements for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112189 Discussion on NTN RRM measurement requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112425 Further discussion on measurement requirements for NR NTN**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112487 Discussion on measurement requirements in NTN**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112710 Measurement procedure requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2112894 Discussion on measurement procedure for NR NTN**

*Type: discussion For: (not specified)  
 Source: LG Electronics UK*

**Decision:** The document was **not treated**.

**R4-2113332 Measurement requirements for NTN**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Measurement requirements for NTN

**Decision:** The document was **not treated**.

**R4-2113843 Discussion on measurement requirements in NTN**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 9.14 UE Power Saving Enhancements

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**Email discussion: [100-e][228] NR\_UE\_pow\_sav\_enh\_RRM**

**R4-2115218 Email discussion summary: [100-e][228] NR\_UE\_pow\_sav\_enh\_RRM**

*Type: other For: Information  
 Source: Moderator (MediaTek)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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#### 9.14.1 General

**R4-2112179 LS on criteria for RLM/BFD relaxation**

*Type: LS out For: Approval  
 to RAN2, cc RAN1  
 Source: vivo*

**Decision:** The document was **not treated**.

#### 9.14.2 UE measurements relaxation for RLM and/or BFD

**R4-2111959 Further discussion on RLM/BFD relaxation for UE power saving enhancement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112090 UE measurements relaxation for RLM and/or BFD**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112180 Discussion on R17 RLM and BFD relaxation for NR**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112204 Discussion on RLMBFD relaxation for NR power saving enhancement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112259 On Power Saving RRM Requirement**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2112413 Further discussion on UE measurements relaxation for RLM and/or BFD**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112878 Discussion about RLM/BFD measurement relaxation**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113137 Discussions on UE power saving for RLM and BM**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113820 Further discussion on RLM/BFD measurement relaxation**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113887 On RLM and RLF relaxation for UE power saving**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114081 Discussions on UE power saving for RLM and BM**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussions on remaining issues of UE power saving requirements.

**Decision:** The document was **not treated**.

**R4-2114153 Evaluation on Rel-17 RLM/BFD measurement relaxation**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

### 9.15 NR Sidelink enhancement

#### 9.15.8 RRM core requirements

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**Email discussion: [100-e][229] NR\_SL\_enh\_RRM**

**R4-2115219 Email discussion summary: [100-e][229] NR\_SL\_enh\_RRM**

*Type: other For: Information  
 Source: Moderator (LG Electronics)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2111960 Further considerations on RRM requirements for Sidelink enhancement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112260 On NR SL RRM Requirement Scope**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2112338 RRM requirements for NR SL enhancement**

*Type: discussion For: (not specified)  
 Source: LG Electronics*

**Abstract:**

It discusses RRM core requirements for Rel-17 NR SL enhancement.

**Decision:** The document was **not treated**.

**R4-2112418 Discussion on RRM requirements for NR sidelink enhancement**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112555 Further discussion on RRM impacts for sidelink enhancement**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113283 Discussion on RRM core requirements for NR SL**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113821 Discussion on RRM impacts for R17 NR V2X enhancement**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114082 Discussions on Sidelink RRM requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussions on sidelink RRM requirements.

**Decision:** The document was **not treated**.

### 9.16 Extending current NR operation to 71GHz

#### 9.16.7 RRM core requirements

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**Email discussion: [100-e][230] NR\_ext\_to\_71GHz\_RRM\_1**

**R4-2115220 Email discussion summary: [100-e][230] NR\_ext\_to\_71GHz\_RRM\_1**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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**Email discussion: [100-e][231] NR\_ext\_to\_71GHz\_RRM\_2**

**R4-2115221 Email discussion summary: [100-e][231] NR\_ext\_to\_71GHz\_RRM\_2**

*Type: other For: Information  
 Source: Moderator (Intel)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.16.7.1 General and RRM requirements impacts

**R4-2112488 Discussion on RRM requirements in FR2-2**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112548 Further discussion on RRM impacts for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112683 Discussion on RRM measurement requirements for extension to 71GHz**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2113220 Discussion on RRM requirements for extension to 71 GHz**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113334 General and RRM requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

General and RRM requirements for extending NR operation to 71GHz

**Decision:** The document was **not treated**.

**R4-2114142 Discussion on general RRM impacts for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114189 Discussion on general aspects for NR 52.6 – 71 GHz RRM**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

##### 9.16.7.2 Timing requirements

**R4-2112135 UE transmit timing for NR operation in 52.6GHz - 71GHz**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112559 Disscussion on timing for 52.6-71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113221 Discussion on RRM timing requirements for extension to 71 GHz**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113518 Timing requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Analysis of UE TDD ON/OFF and other timing requirements.

**Decision:** The document was **not treated**.

**R4-2113519 Reply LS to RAN1: LS on beam switching gap for 60 GHz band**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson*

**Abstract:**

Feedback to RAN1 on TDD ON/OFF switch time.

**Decision:** The document was **not treated**.

**R4-2114143 Discussion on timing requirements for exntending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114573 Impact of higher SCS on timing accuracy requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

In this paper, we discuss the impact of 480/960kHz SCS on UE transmit timing accuracy requirements

**Decision:** The document was **not treated**.

##### 9.16.7.3 Interruption requirements

**R4-2112560 Disscussion on interruption for 52.6-71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113222 Discussion on interruption requirements for extension to 71 GHz**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113336 Interruption requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Interruption requirements for extending NR operation to 71GHz

**Decision:** The document was **not treated**.

**R4-2114144 Discussion on interruption requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114190 Interruption requirements for NR 52.6 – 71 GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114572 Impact of higher SCS on interruptions requirements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

In this paper, we discuss the impact of 480/960kHz SCS on some of the interruption requirements in NR-SA mode

**Decision:** The document was **not treated**.

##### 9.16.7.4 Active BWP switching delay requirements

**R4-2112136 Active BWP switch delay for NR operation in 52.6GHz - 71GHz**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112561 Disscussion on BWP swiching delay for 52.6-71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113223 Discussion on Active BWP switching delay requirements for extension to 71 GHz**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113335 Active BWP switching requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Active BWP switching requirements for extending NR operation to 71GHz

**Decision:** The document was **not treated**.

**R4-2114145 Discussion on BWP switching requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114191 Discussion on BWP switching delay for NR 52.6 – 71 GHz**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

##### 9.16.7.5 Measurement gap interruption requirements

**R4-2112562 Disscussion on measurement gap interruption for 52.6-71GHz**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113224 Discussion on measurement gap requirements for extension to 71 GHz**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113337 Measurement gap interruption requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Measurement gap interruption requirements for extending NR operation to 71GHz

**Decision:** The document was **not treated**.

**R4-2114146 Discussion on measurement gap interruption requirements for extending NR operation to 71GHz**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

### 9.17 Enhancements to Integrated Access and Backhaul (IAB) for NR

#### 9.17.3 RRM core requirements

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**Email discussion: [100-e][232] NR\_IAB\_enh\_RRM**

**R4-2115222 Email discussion summary: [100-e][232] NR\_IAB\_enh\_RRM**

*Type: other For: Information  
 Source: Moderator (ZTE)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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**R4-2112869 Discussion on RAN3 LS for inter-donor migration**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113149 Further discussion on RRM requirements for eIAB**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113875 On eIAB RRM**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114147 Discussion on RRM requirements for eIAB**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114463 Analysis of RRM requirements for enhanced IAB**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper analyzes the impact of RRM on IAB enhancement

**Decision:** The document was **not treated**.

**R4-2114464 LS response on Inter-donor migration**

*Type: LS out For: Approval  
 to RAN3, cc RAN1, RAN2  
 Source: Ericsson*

**Abstract:**

The paper analyzes and provides response to RAN3 LS in R3-212981

**Decision:** The document was **not treated**.

**R4-2114546 Considerations on Rel. 17 IAB enhanced RRM Core Requirements**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Abstract:**

In the paper, we mainly focus on the discussion of the RRM impact of Case #6 timing. Additionally, CA/DC and interference management are treated briefly.

**Decision:** The document was **not treated**.

### 9.19 Further enhancements on MIMO for NR

#### 9.19.3 RRM core requirements

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**Email discussion: [100-e][233] NR\_feMIMO\_RRM**

**R4-2115223 Email discussion summary: [100-e][233] NR\_feMIMO\_RRM**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.19.3.1 General and RRM requirements impacts

**R4-2112181 Discussion on FeMIMO RRM impacts**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112530 Discussion on general and RRM requirements impacts in R17 feMIMO**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2112601 Discussion on feMIMO general and RRM requirements impacts**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113307 Impact to RRM requirements for further enhancements on MIMO**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113509 Reply LS to RAN3 on TCI state updates for L1/L2 centric inter-cell mobility**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

We provide our views on the response to be sent to RAN3 LS R3-212879

**Decision:** The document was **not treated**.

**R4-2113822 Discussion on beam management requirements for R17 NR FeMIMO**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.19.3.2 Multi-beam operation enhancement

**R4-2112109 Discussion on RRM requirements for L1/L2 Centric Mobility and Unified TCI**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112182 Discussion on RRM impacts from Multi-beam operation enhancements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112531 Discussion on multi-beam operation enhancement in R17 feMIMO**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2113136 Discussions on Rel-17 Multi-beam operation enhancement impact on RRM**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113510 Discussion on RRM requirements for multi-beam operation in FeMIMO**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

We discuss RRM requirements for multi-beam operation in FeMIMO

**Decision:** The document was **not treated**.

**R4-2113823 Discussion on multi-beam operation enhancements for R17 NR FeMIMO**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114419 On L1/L2 centric non-serving cell measurements**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This paper has discussed L1-RSRP measurements within and outside SMTC windows

**Decision:** The document was **not treated**.

**R4-2114430 Views on RRM impacts of feMIMO multi-beam operation enhancement**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Qualcomm CDMA Technologies*

**Abstract:**

Views on feMIMO scope, impacts

**Decision:** The document was **not treated**.

##### 9.19.3.3 Link recovery procedure for FR2 serving cells

**R4-2113511 Discussion on TRP specific link recovery procedures in FeMIMO**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

We discuss link recovery requirements for multi-beam operation of FeMIMO

**Decision:** The document was **not treated**.

**R4-2113543 Discussion on Link recovery procedure for FR2 serving cells**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113824 Discussion on link recovery requirements for R17 NR FeMIMO**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 9.20 Support of reduced capability NR devices

#### 9.20.3 RRM core requirements

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**Email discussion: [100-e][234] NR\_redcap\_RRM\_1**

**R4-2115224 Email discussion summary: [100-e][234] NR\_redcap\_RRM\_1**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**Existing tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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**Email discussion: [100-e][235] NR\_redcap\_RRM\_2**

**R4-2115225 Email discussion summary: [100-e][235] NR\_redcap\_RRM\_2**

*Type: other For: Information  
 Source: Moderator (vivo)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**Existing tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.20.3.1 General and RRM requirements impacts

**R4-2112129 Impact of RedCap on RRM requirements**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112191 Discussion on RRM impacts for reduced capability NR devices**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112643 Considerations on RRM impacts of Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113148 Further discussion on RRM requirements for RedCap UE in Rel-17**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113284 General RRM requirements for Redcap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113845 Discussion on general RRM requirements impacts for RedCap UE**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113865 On general aspects of RedCap RRM**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113947 General and RRM requirements impacts**

*Type: discussion For: Decision  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2114068 On scope of RRM core requirements for RedCap**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on RRM core requirements for NR\_redcap

**Decision:** The document was **not treated**.

**R4-2114084 Discussions on scope and general requirements for RedCap**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussions on scope and general requirements for RedCap

**Decision:** The document was **not treated**.

##### 9.20.3.2 UE complexity reduction

**R4-2112130 Discussion on UE complexity reduction for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112415 Discussion on RRM requirements for UE complexity reduction for RedCap**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112644 Considerations on UE complexity reduction for Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113285 UE complexity reduction for Redcap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113846 Discussion on RRM requirements due to UE complexity reduction**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113847 Simulation assumption for measurement accuracy for RedCap UE with 1 RX**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113866 On complexity reduction for RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113955 UE complexity reduction**

*Type: discussion For: Decision  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2114083 Discussion on UE complexity reduction**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution, we will further discuss on UE complexity reduction for RedCap UE.

**Decision:** The document was **not treated**.

**R4-2114575 RRM impact of complexity reduction features**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

In this paper we discuss the RRM impact of UE complexity reduction features for RedCap UE

**Decision:** The document was **not treated**.

##### 9.20.3.3 Extended DRX enhancements

**R4-2112131 Discussion on RRM requirement with eDRX for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112416 Discussion on RRM requirements for extended DRX enhancements for RedCap**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112645 Considerations for eDRX enhancement for Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113286 Extended DRX enhancements for Redcap UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113848 Discussion on Extended DRX enhancements for RedCap UE**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113867 On Extended DRX enhancements for RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113956 Extended DRX enhacnements**

*Type: discussion For: Decision  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2114085 Discussions on eDRX requirements for RedCap**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

RAN4 to start discussing the measurement requirements for UE configured with eDRX as agreed in [1]. In this contribution, we discuss and provide our view on this topic.

**Decision:** The document was **not treated**.

**R4-2114574 eDRX enhancements for RedCap UE**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

In this paper we discuss eDRX enhancements for RedCap UE

**Decision:** The document was **not treated**.

##### 9.20.3.4 RRM measurement relaxations

**R4-2112132 Discussion on RRM measurement relaxations for RedCap**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112417 Discussion on RRM measurement relaxations for RedCap UE**

*Type: discussion For: Discussion  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112646 Considerations for RRM relaxation for Redcap**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113287 RRM measurement relaxations for Reduced Capability UE**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113849 Discussion on RRM measurement relaxations for RedCap UE**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113868 Discussions on RRM measurement relaxations for RedCap UEs**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113972 RRM measurements relaxation**

*Type: discussion For: Decision  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2114069 On RRM measurement relaxation for neighbouring cells**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on RRM relaxation for NR\_redcap

**Decision:** The document was **not treated**.

**R4-2114086 Discussions on relaxed mesurment requirements for RedCap**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

RAN4 to start discussing relaxed measurement requirements for RedCap as agreed in [1]. In this contribution, we discuss and provide our view on this topic.

**Decision:** The document was **not treated**.

**R4-2114576 RRM relaxations enhancements for RedCap UE**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Abstract:**

In this paper we discuss RRM relaxations enhancements for RedCap UE

**Decision:** The document was **not treated**.

### 9.21 Positioning enhancements for NR

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**Email discussion: [100-e][236] NR\_pos\_enh\_RRM\_1**

**R4-2115226 Email discussion summary: [100-e][236] NR\_pos\_enh\_RRM\_1**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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**Email discussion: [100-e][237] NR\_pos\_enh\_RRM\_2**

**R4-2115227 Email discussion summary: [100-e][237] NR\_pos\_enh\_RRM\_2**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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#### 9.21.1 General

**R4-2112549 Reply LS on PRS processing samples**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

#### 9.21.2 RRM core requirements

##### 9.21.2.1 General and RRM requirements impacts

**R4-2111999 Discssion on PRS processing samples**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112550 Further discussion on general RRM requirements impacts for positioning enhancement**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

##### 9.21.2.2 UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation

**R4-2112000 Discussion on UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112551 Discussion on timing delay mitigation**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112598 Discussion on UE Rx/Tx and/or gNB Rx/Tx timing delay mitigation**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113157 Discussion on timing delay mitigating for NR positioning enhancement**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113874 UE Rx/Tx and gNB Rx/Tx timing delay mitigation**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114051 Reply LS on on UE/TRP Tx/Rx Timing Errors**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses UE/TRP Tx/Rx Timing Errors based on incoming LS from RAN1 and proposes a reply LS

**Decision:** The document was **not treated**.

**R4-2114198 On UE Rx/Tx timing error mitigation**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2114310 Discussion on timing error mitigation for positioning**

*Type: LS out For: Approval  
 to RAN1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.21.2.3 Latency reduction of positioning measurement

**R4-2112001 Discussion on latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112508 Discussion on latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112552 Discussion on latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112599 Discussion on latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113158 Discussion on latency reduction for NR positioning enhancement**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113876 On latency reduction of positioning measurement**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114052 Reply LS on PRS processing samples**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses PRS processing samples based on incoming LS from RAN1 and proposes a reply LS

**Decision:** The document was **not treated**.

**R4-2114199 On latency reduction of NR positioning measurements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2114311 Discussion on latency reduction for positioning**

*Type: LS out For: Approval  
 to RAN1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.21.2.4 Measurement in RRC\_INACTIVE state

**R4-2112002 Discussion on measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112553 Discussion on measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112600 Discussion on measurement in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113877 Positioning measurements in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114053 On positioning in RRC\_inactive**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses positioning in RRC\_inactive

**Decision:** The document was **not treated**.

**R4-2114312 Discussion on PRS measurement in RRC\_INACTIVE**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.21.2.5 Impact on existing UE positioning and RRM requirements

**R4-2112554 Discussion on impact to existing UE positioning and RRM requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113880 Impact on existing UE positioning and RRM requirements**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114313 Discussion on new MGP for positioning**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114462 Impact on RRM and positioning requirements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper analyzes the impact of RRM on positioning requirements and vice versa

**Decision:** The document was **not treated**.

##### 9.21.2.6 Enhancements of A-GNSS positioning

**R4-2112003 Discussion on enhancements of A-GNSS positioning**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113873 On A-GNSS positioning enhancement**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114314 Discussion on A-GNSS enhancement in Rel-17 positioning**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 9.22 Multi-Radio Dual-Connectivity enhancements

#### 9.22.1 General

#### 9.22.2 RRM core requirements

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**Email discussion: [100-e][238] LTE\_NR\_DC\_enh2\_RRM**

**R4-2115228 Email discussion summary: [100-e][238] LTE\_NR\_DC\_enh2\_RRM**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.22.2.1 General and RRM requirements impacts

**R4-2113143 Discussion on RRM aspects of MR-DC enhancements in Rel-17**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113838 General RRM requirements impacts due to Multi-Radio Dual-Connectivity enhancements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.22.2.2 Efficient activation/de-activation mechanism for SCells

**R4-2112075 On efficient activation/de-activation mechanism for SCells**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112642 On temporary RS for efficient SCell activation in NR CA**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112698 Efficient activation and deactivation mechanism for SCells**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113839 Discussion on efficient activation/de-activation mechanism for Scells**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113883 On temporary RS for efficient SCell activation**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114020 Discussion on efficient activation/de-activation mechanism for Scells**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114154 Discussion on temporary RS**

*Type: discussion For: Discussion  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114177 On efficient activation/deactivation mechanism for SCells**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Our views on open issues in Efficient activation/deactivation mechanism for SCells

**Decision:** The document was **not treated**.

##### 9.22.2.3 Efficient activation/de-activation mechanism for one SCG

**R4-2112076 On efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112699 Efficient activation and deactivation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113840 Discussion on efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114021 Discussion on Efficient activation/de-activation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114178 On efficient activation/deactivation mechanism for one SCG**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Our views on open issues in Efficient activation/deactivation mechanism for SCG.

**Decision:** The document was **not treated**.

##### 9.22.2.4 Conditional PSCell change and addition

**R4-2112077 On conditional PSCell change and addition**

*Type: discussion For: (not specified)  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112700 Conditional PSCell change and addition**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113841 Discussion on conditional PSCell change and addition**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113886 Conditional PSCell change and addition**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114022 Discussion on conditional PSCell change and addition**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114179 On conditional PSCell change and addition**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Our views on open issues in Conditional PSCell change and addition.

**Decision:** The document was **not treated**.

### 9.23 Enhanced IIoT and URLLC support

#### 9.23.1 General

#### 9.23.2 RRM core requirements

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**Email discussion: [100-e][239] NR\_IIOT\_URLLC\_enh\_RRM**

**R4-2115229 Email discussion summary: [100-e][239] NR\_IIOT\_URLLC\_enh\_RRM**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 9.23.2.1 General and RRM requirements impacts

**R4-2112556 RRM impacts overview for IIoT/URLLC support for NR**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113144 Further discussion on RRM requirements for IIoT and URLLC in Rel-17**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114027 Discussion of RRM impact for PUCCH carrier switching**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114315 Discussion on RRM impacts of PUCCH carrier switching**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.23.2.2 Propagation delay compensation enhancements

**R4-2112214 Discussion on propagation delay enhancement**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112557 Discussion on propagation delay compensation enhancements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113520 Propagation Delay Compensation Enhancements for Time Synchronization**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Analysis of different propagation delay methods using delay budgets. In particular TA based and RTT based methods.

**Decision:** The document was **not treated**.

**R4-2113981 Propagation delay compensation enhancements**

*Type: discussion For: Decision  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2114029 Status of Propagation delay compensation enhancements and expected RAN4 impacts**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114316 Discussion on RRM impacts of PDC enhancements**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.23.2.3 Reference point for Te requirements

**R4-2112215 Discussion on reference point of UE transmit timing error**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112558 Discussion on reference point for Te requirements**

*Type: discussion For: Discussion  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113288 Reference point for Te requirements for NR\_IIOT\_URLLC\_enh**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113882 Discussion on the reference point for Te requirements**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113982 Reference point for Te requirements**

*Type: discussion For: Decision  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **not treated**.

**R4-2114009 Further discussion of the reference point for UE transmit timing requirement**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114317 Discussion on reference point for Te requirements**

*Type: LS out For: Approval  
 to RAN1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114450 LS response on UE transmit timing error**

*Type: LS out For: Approval  
 to RAN1  
 Source: Ericsson, Intel*

**Abstract:**

This document further analyze the remaining issue of the reference point definition for UE timing error requirements. It is continuation of LS response to RAN1 in R4-2105850.

**Decision:** The document was **not treated**.

### 9.24 NR Sidelink Relay

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**Email discussion: [100-e][240] NR\_SL\_relay\_RRM**

**R4-2115230 Email discussion summary: [100-e][240] NR\_SL\_relay\_RRM**

*Type: other For: Information  
 Source: Moderator (OPPO)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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#### 9.24.1 General and work plan

**R4-2113289 Work Plan for NR Sidelink Relay RRM**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

#### 9.24.2 RRM core requirements

**R4-2112258 On NR SL relay RRM Requirement Scope**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

**R4-2113290 RRM requirements for NR Sidelink Relay**

*Type: discussion For: Discussion  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113825 Discussion on RRM impacts for R17 NR sidelink relay**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113881 Initial discussions on RRM requirements for sidelink relay**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

## 10 Rel-17 Study Items for NR

## 11 Rel-17 Work Items for LTE

### 11.8 Additional enhancements for NB-IoT and LTE-MTC

#### 11.8.4 RRM core requirements

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**Email discussion: [100-e][241] NB\_IOTenh4\_LTE\_eMTC6\_RRM**

**R4-2115231 Email discussion summary: [100-e][241] NB\_IOTenh4\_LTE\_eMTC6\_RRM**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**GTW session (TBA)**

**1st round email discussion conclusions**

**New tdocs**

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| **Tdoc number** | **Title** | **Source** | **Comments** |
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**Existing tdocs**

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| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
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**2nd round email discussion conclusions**

**WF/LS for approval**

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##### 11.8.4.1 Neighbour cell measurement in RRC Connected state for NB-IoT

**R4-2114088 Discussions on RRM requirements for release 17 WI on eMTC and NB-IoT**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss and provide our view on the open issues identified in [1].

**Decision:** The document was **not treated**.

**R4-2114148 Discussion on RRM requirements for Rel-17 NB-IoT**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

**Decision:** The document was **not treated**.

**R4-2114201 On NB-IoT neighbor cell measurements in RRC\_CONNECTED**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 11.8.5 Others

## 12 Liaison and output to other groups

## 13 Revision of the Work Plan

## 14 Any other business

### 14.1 Celebration of RAN4#100 meeting

## 15 Close of the E-meeting

Report prepared by: MCC

**R4-21AAAAA Way forward on XXXX**

*Type: other For: Approval  
 Source: TBA*

**Abstract:**

**Discussion:**

**Decision: Return to.**