**3GPP TSG-RAN WG4 Meeting # 97-e R4-20XXXX**

**Electronic Meeting, November 2-13, 2020**

**Agenda item:** 4.8

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for [97e][202] NR\_NewRAT\_RRM\_Perf

**Document for:** Information

# Introduction

The documents in agenda item 4.8 contains CRs to correct test configuration or test cases. There are following 2 main topics:

* Topic #1: Correction to RRM test configuration
* Topic #2: Updates/correction to RRM test cases

# Topic #1: Correction to RRM test configuration

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2014025**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014025.zip) | ANRITSU LTD | Modification of AG level in CORESET for RMC scheduling |
| [**R4-2014026**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014026.zip) | ANRITSU LTD | Aggregation level of CORESET for RMC scheduling |
| R4-2014027 | ANRITSU LTD | Aggregation level of CORESET for RMC scheduling |
| [**R4-2015152**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015152.zip) | Ericsson | Correction to types of requirements in annex A |
| R4-2015153 | Ericsson | Correction to types of requirements in annex A |
| [**R4-2015447**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015447.zip) | Huawei, HiSilicon | Correction to CSI-RS RMC configuration R15 |
| R4-2015448 | Huawei, HiSilicon | Correction to CSI-RS RMC configuration R16 |
| [**R4-2015457**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015457.zip) | Huawei, HiSilicon | CR on maintaining Antenna configurations in TS38.133 R15 |
| R4-2015458 | Huawei, HiSilicon | CR on maintaining Antenna configurations in TS38.133 R16 |

## Open issues summary

### Sub-topic 1-1: Modification of aggregation level in CORESET for RMC scheduling

Detailed analysis in R4-2014025 on modification of AG level in CORESET for RMC scheduling:

* ***Observation 1: Due to the limit of resources, there is no room for the SS to transmit UL grant (PDCCH DCI format 0-1) at DL slots and only DL grant (PDCCH DCI format 1-1) is transmitted except for the special slot for TDD.***
* ***Observation 2: By adjusting AG level of CORESET for RMC scheduling, it is possible to schedule 2 DCIs per slot (both DL grant and UL grant can be sent from the SS).***
* ***Observation 3: Taking into consideration of the limitations above, we assume that the adjustment of the AG level is the most suitable solution and easiest to solve the issue with the current CORESET definition.***
* ***Proposal 1: Adjust the AG level of CORESET for RMC scheduling to enable transmitting 2 DCIs per slot.***
* ***Observation 4: Adjustment of AG level has no impact on the RRM test requirements.***
* ***Proposal 2: Keep the definitions of CORESET for RMC scheduling in A.3.1.3 in a same form from the current ones and do not separate them for SA and NSA.***
* Recommended WF:
* Collect companies views on analysis and proposals in R4-2014025.

### Sub-topic 1-2: Correction to RRM tests

Directly provide comments on the cat F CR, if any, in section 1.3.2.

## Companies views’ collection for 1st round

### Open issues

**Sub-topic 1-1: Modification of aggregation level in CORESET for RMC scheduling**

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| **Company** | **Comments** |
| Ericsson | Generally speaking we agree with Anritsu that it is important to be able to schedule UE on DL and provide UL grant on the same slot otherwise we couldn’t properly test some RRM requirements like interruptions. Our only concern with aggregation level 4 is for some low SNR tests where PDCCH may have a high error rate, we have in mind tests like RLM and BFD which have phases where the UE is connected to a serving cell at low SNR. For these tests it is not clear that the PDCCH error rate will cause any problem or not since the UE may not need to receive or send critical messaging during the low SNR phase but we just want to check also the view other companies that the proposed change does not cause any issue in low SNR. It may be good to keep the AG=8 RMC in case we do need to use it in some specific cases, perhaps we could change the existing RMC to AG=4 as Anritsu has proposed and then create a new RMC (from numbering perspective) with the parameters of the existing RMC in case it is needed later? |
| Huawei | Similar concern as Ericsson mentioned above, i.e. would AG4 work for RRM test cases with low SINR? However, we understand RLM and BFD may not be a concern, since no PDCCH RMC is supposed to be scheduled during the test. |
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### CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| [**R4-2014026**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014026.zip) | Ericsson: Pending outcome of discussion of subtopic 1-1, we may want to add a “new” RMC with the existing parameters (AG=8) in case it is needed for some low SNR tests |
| Huawei: need to wait for confirmation from subtopic 1-1 |
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| [**R4-2015152**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015152.zip) |  |
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| [**R4-2015447**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015447.zip) | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary commented if neither UICC, ME, Radio Access Network or Core Network boxes are checked, the CR does not change anything and hence the CR is not needed.” |
| Ericsson: OK |
| Huawei: will revise to correct the cover sheet error. |
|  |
| [**R4-2015457**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015457.zip) | Ericsson : No strong need for this CR |
| Qualcomm: We do not see the need for this CR. Has RAN5 found any issue with testing? |
| Huawei: for some bands, UE equipped with 4 Rx ports is allowed to fall back to 2Rx for the purpose of power saving. For these bands, UE supports both 2Rx and 4Rx. For the band where 2Rx is support, the UE could be equipped with 2 Rx ports or 4 Rx ports, which will cause misunderstanding. Our RAN5 colleague raise this issue and hope to handle it in RAN4. |
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## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

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|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Recommendations on WF/LS assignment*

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| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provides recommendation on CRs/TPs Status update*

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| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

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| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #2: Correction to RRM tests

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2014017**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014017.zip) | ANRITSU LTD | RB allocation and Noc level in RLM Test cases |
| R4-2014018 | ANRITSU LTD | RB allocation and Noc level in RLM Test cases |
| [**R4-2014019**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014019.zip) | ANRITSU LTD | Update FR2 event-triggered reporting Test cases in A.5.6, A.7.6 |
| R4-2014020 | ANRITSU LTD | Update FR2 event-triggered reporting Test cases in A.5.6, A.7.6 |
| [**R4-2014021**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014021.zip) | ANRITSU LTD | 240kHz SSB SCS Configuration for FR2 SS-RSRP Test cases |
| R4-2014022 | ANRITSU LTD | 240kHz SSB SCS Configuration for FR2 SS-RSRP Test cases |
| [**R4-2014023**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014023.zip) | ANRITSU LTD | Correct UE beam assumption for Test Cases in A.5.6 |
| R4-2014024 | ANRITSU LTD | Correct UE beam assumption for Test Cases in A.5.6 |
| [**R4-2014028**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014028.zip) | ANRITSU LTD | Clarify FR1 NSA SS-SINR measurement TCs |
| R4-2014029 | ANRITSU LTD | Claify FR1 NSA SS-SINR measurement TCs |
| [**R4-2014046**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014046.zip) | ANRITSU LTD | FR1 Inter-frequency Event triggered Reporting tests in DRX |
| R4-2014047 | ANRITSU LTD | FR1 Inter-frequency Event triggered Reporting tests in DRX |
| [**R4-2014048**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014048.zip) | ANRITSU LTD | E-UTRAN – NR FR1 interruptions at transitions between active and non-active during DRX EN-DC |
| R4-2014049 | ANRITSU LTD | E-UTRAN – NR FR1 interruptions at transitions between active and non-active during DRX EN-DC |
| R4-2014181 | ZTE Corporation | [CR] NR Perf Maintenance R15 Cat F |
| R4-2014182 | ZTE Corporation | [CR] NR Perf Maintenance R16 Cat A |
| [**R4-2014231**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014231.zip) | Apple | Maintenance CR on SA inter-frequency event triggered reporting tests for FR1 (A.6.6.2) - R16 |
| [**R4-2014372**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014372.zip) | MediaTek inc. | CR on TS38.133 for cell activation and deactivation test case |
| R4-2014373 | MediaTek inc. | CR on TS38.133 for cell activation and deactivation test case |
| [**R4-2014374**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014374.zip) | MediaTek inc. | CR on TS38.133 for cell reselection test case |
| R4-2014375 | MediaTek inc. | CR on TS38.133 for cell reselection test case |
| [**R4-2014376**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014376.zip) | MediaTek inc. | CR on TS38.133 for active BWP switch test cases |
| R4-2014377 | MediaTek inc. | CR on TS38.133 for active BWP switch test cases |
| [**R4-2014406**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014406.zip) | CATT | CR for TS38.133 Rel-15, Correction for RRM core and test cases |
| R4-2014407 | CATT | CR for TS38.133 Rel-16, Correction for RRM core and test cases |
| [**R4-2014591**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014591.zip) | Qualcomm CDMA Technologies | Draft CR on correcting SSB and RACH configuration in CSI-RS based beam failure detection and link recovery tests |
| [**R4-2014592**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014592.zip) | Qualcomm CDMA Technologies | Draft CR on correcting SSB and RACH configuration in CSI-RS based beam failure detection and link recovery tests |
| [**R4-2014601**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014601.zip) | MediaTek inc. | CR on TS 38.133 for radio link monitoring test case R15 |
| R4-2014602 | MediaTek inc. | CR on TS 38.133 for radio link monitoring test case R16 |
| [**R4-2014865**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014865.zip) | MediaTek inc. | Correction on beamFailureInstanceMaxCount for test cases of availability restriction during FR2 BFR in R15 |
| R4-2014866 | MediaTek inc. | Correction on beamFailureInstanceMaxCount for test cases of availability restriction during FR2 BFR in R16 |
| [**R4-2014947**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2014947.zip) | Nokia, Nokia Shanghai Bell | Correction of RRM tests |
| R4-2014948 | Nokia, Nokia Shanghai Bell | Correction of RRM tests |
| [**R4-2015148**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015148.zip) | Ericsson | Correction of beam assumptions in interfrequency EN-DC FR1+FR2 tests |
| R4-2015149 | Ericsson | Correction of beam assumptions in interfrequency EN-DC FR1+FR2 tests |
| [**R4-2015150**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015150.zip) | Ericsson | Correction of TBD values in EN-DC PSCell addition and release delay test |
| R4-2015151 | Ericsson | Correction of TBD values in EN-DC PSCell addition and release delay test |
| [**R4-2015154**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015154.zip) | Ericsson | Corrections to frequency range in interfrequency measurement procedures tests |
| R4-2015155 | Ericsson | Corrections to frequency range in interfrequency measurement procedures tests |
| [**R4-2015157**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015157.zip) | Ericsson | Correction on TBD values in FR1+FR2 interfrequency RSRP accuracy tests |
| R4-2015158 | Ericsson | Correction on TBD values in FR1+FR2 interfrequency RSRP accuracy tests |
| [**R4-2015161**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015161.zip) | Ericsson | Correction of TBD value in Radio Link Monitoring Out-of-sync Tests for FR2 configured with CSI-RS-based RLM |
| R4-2015162 | Ericsson | Correction of TBD value in Radio Link Monitoring Out-of-sync Tests for FR2 configured with CSI-RS-based RLM |
| [**R4-2015163**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015163.zip) | Ericsson | Square bracket removal in 38.133 section A.1 to A.5 |
| R4-2015164 | Ericsson | Square bracket removal in 38.133 section A.1 to A.5 |
| [**R4-2015165**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015165.zip) | Ericsson | Square bracket removal in 38.133 section A.6 to A.8 |
| R4-2015166 | Ericsson | Square bracket removal in 38.133 section A.6 to A.8 |
| [**R4-2015449**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015449.zip) | Huawei, HiSilicon | Correction to cell reselection test cases R15 |
| R4-2015450 | Huawei, HiSilicon | Correction to cell reselection test cases R16 |
| [**R4-2015451**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015451.zip) | Huawei, HiSilicon | Correction to inter-RAT handover test cases R15 |
| R4-2015452 | Huawei, HiSilicon | Correction to inter-RAT handover test cases R16 |
| [**R4-2015453**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015453.zip) | Huawei, HiSilicon | Correction to NR measurement under LTE SA test cases R15 |
| R4-2015454 | Huawei, HiSilicon | Correction to NR measurement under LTE SA test cases R16 |
| [**R4-2015455**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015455.zip) | Huawei, HiSilicon | Correction to inter-RAT SFTD measurement test cases R15 |
| R4-2015456 | Huawei, HiSilicon | Correction to inter-RAT SFTD measurement test cases R16 |
| [**R4-2015459**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015459.zip) | Huawei, HiSilicon | CR on maintaining BFD/CBD measurements test cases in TS38.133 R15 |
| R4-2015460 | Huawei, HiSilicon | CR on maintaining BFD/CBD measurements test cases in TS38.133 R16 |
| [**R4-2015503**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015503.zip) | Huawei, HiSilicon | Correction on SA inter-RAT measurement FR1 test case |
| [**R4-2015531**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015531.zip) | Huawei, HiSilicon | CR on RRC-based active TCI state switch test case Rel-15 |
| R4-2015532 | Huawei, HiSilicon | CR on RRC-based active TCI state switch test case Rel-16 |
| [**R4-2015674**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015674.zip) | ZTE Corporation | [CR] NR Perf Maintenance R15 Cat F |
| [**R4-2015738**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015738.zip) | Huawei, HiSilicon | CR on FR2 unkown SCell activation test cases R15 |
| R4-2015739 | Huawei, HiSilicon | CR on FR2 unkown SCell activation test cases R16 |
| [**R4-2015740**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015740.zip) | Huawei, HiSilicon | CR on BWP in L1-RSRP delay and accuracy test cases R15 |
| R4-2015741 | Huawei, HiSilicon | CR on BWP in L1-RSRP delay and accuracy test cases R16 |
| [**R4-2015823**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015823.zip) | Ericsson | CR: Correction of CFRA test in FR2 SA |
| [**R4-2015993**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015993.zip) | Rohde & Schwarz | CR to TS 38.133: Corrections to inter-RAT FR1 test cases (Rel-15) |
| R4-2015994 | Rohde & Schwarz | CR to TS 38.133: Corrections to inter-RAT FR1 test cases (Rel-16) |
| [**R4-2015995**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015995.zip) | Rohde & Schwarz | CR to TS 38.133: Corrections to inter-RAT FR2 test cases (Rel-15) |
| R4-2015996 | Rohde & Schwarz | CR to TS 38.133: Corrections to inter-RAT FR2 test cases (Rel-16) |
| [**R4-2016024**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016024.zip) | Ericsson | CR 38.133 Correction to test case for TCI state switching (Rel-15) |
| R4-2016025 | Ericsson | CR 38.133 Correction to test case for TCI state switching (Rel-16) |
| [**R4-2016160**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016160.zip) | Ericsson | Removal of annex B.2.6 on one shot timing adjustment in 38.133 |
| R4-2016161 | Ericsson | Removal of annex B.2.6 on one shot timing adjustment in 38.133 |
| [**R4-2016163**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016163.zip) | Ericsson | Correction to NR FR1 DL active BWP switch of Cell with non-DRX in SA (A.6.5.6.2.1) |
| [**R4-2016164**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016164.zip) | Ericsson | Correction to NR FR1 DL active BWP switch of Cell with non-DRX in SA (A.6.5.6.2.1) |
| [**R4-2016582**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2016582.zip) | Qualcomm Incorporated | Missing TRS Configurations in Test Cases |

## Open issues summary

### Sub-topic 2-1: Missing TRS Configurations in Test Cases

Detailed analysis in R4-2016582 on tests with missing TRS configuration.

* **Observation 1: There are more than 30 Test Cases where TRS configuration is missing, hence, UE may not be properly tested.**
* **Proposal 1: In principle, RAN4 agrees that TRS configuration should be added to the following test cases. And the correction for each test case will be made by one big CR.**
* Recommended WF:
  + Collect companies views on analysis and proposals in R4-2016582.
  + Identify list of tests where TRS configuration should be added.

### Sub-topic 2-2: Correction to RRM tests

• Directly provide comments on the cat F CR, if any, in section 2.3.2.

## Companies views’ collection for 1st round

### Open issues

**Sub-topic 2-1: Missing TRS Configurations in Test Cases**

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| **Company** | **Comments** |
| Ericsson | Ok with the proposal to add missing TRS and the list in R4-2016582. Request that Qualcomm provides the “big CR” mentioned in proposal 1 to address this issue and close it in RAN4#98 |
| Huawei | Support the proposal. |
| Qualcomm | We can prepare the “big CR” to clean up TRS missing issue for the list in the proposal of R4-2016582, if it gets agreed. |
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### CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| **R4-2014017** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary commented if neither UICC, ME, Radio Access Network or Core Network boxes are checked on the coversheet, the CR does not change anything and hence the CR is not needed.” |
| Ericsson : OK with this CR, we covered CSI-RS RLM OTA parameters in R4-2015161 with the same numbers but agree that this CR covers other issues as well, so OK to use this as the baseline |
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| **R4-2014019** | Ericsson : OK |
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| **R4-2014021** | Ericsson : OK |
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| **R4-2014023** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary commented if neither UICC, ME, Radio Access Network or Core Network boxes are checked on the coversheet, the CR does not change anything and hence the CR is not needed.” |
| Ericsson : We have a CR for this issue in R4-2015148, since this covers other issues we are OK to use Anritsu CR as a baseline |
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| **R4-2014028** | Ericsson : OK |
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| **R4-2014046** | Ericsson : OK |
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| **R4-2014048** | Ericsson : OK |
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| **R4-2014181** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary asked what is the correct Release? It reads Rel-16 on the coversheet but the CR is allocated for Rel-15. |
| Ericsson : OK |
| ZTE: We withdrew this CR before the meeting because of the error mentioned above, please check **[R4-2015674](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_97_e/Docs/R4-2015674.zip)** |
| **R4-2014231** | Ericsson : Our view is that there is no difference between NA or a blank box as in either case there is no parameter defined. We can agree that NA looks a bit better in that it shows that the parameter was intentionally not defined. However, given the status of Rel-15 RRM tests in 38.133 our perfernce would be to concentrate on fixing more major errors such as clearly incorrect parameter values, of which many are still being discovered,. |
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| **R4-2014372** | Ericsson : OK |
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| **R4-2014374** | Ericsson : OK |
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| **R4-2014374** | Ericsson : Seems to be included twice in table in moderator summary, please provide all comments in the first table entry above |
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| **R4-2014376** | Ericsson : Principle is OK but Pscell and PSCC are still at several places. Need to revise to change to Pcell and PCC in all instances |
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| **R4-2014406** | Ericsson : OK |
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| **R4-2014591** | Anritsu: Agree with the principle, but prefer the format to follow existing test cases such as in Table A.6.3.2.2.1.1-2 which specifies a PRACH Configuration, with the pointer in the last column “As defined in A.3.8”. If desired, we could give each PRACH configuration a name like “PRACH.3 FR2”.  Whatever format is chosen, it should be used consistently across all test cases. |
| Ericsson : For Tables A.6.5.5.3.1-2/A.6.5.5.4.1-2, do not need have separate configuration between 1,2 and 3, because all refer to Table A.3.8.2.4-1. So one row is enough.  For Tables A.7.5.5.3.1-2/A.4.5.1.1.1-2, only need to specify config 1 (no need for config 2 and 3). |
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| **R4-2014601** | Ericsson : OK |
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| **R4-2014865** | Ericsson: OK to change beamFailureInstanceMaxCount=1, but it looks beamFailureInstanceMaxCount in Table A.7.5.5.5.1-2 also need to changed to n1? |
| MTK: @ Ericsson: Table A.7.5.5.5.1-2 can keep n2 because the test is checking the scheduling restriction rather than BFI. Thus the beamFailureInstanceMaxCount will not have impact on this test. However, it could be good to align all test with the same value. |
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| **R4-2014947** | Ericsson : OK |
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| **R4-2015148** | Anritsu: Agree with the CR, but it is also covered by Anritsu R4-2014023 which includes other corrections. |
| Ericsson : Can be marked as merged with Anritsu R4-2014023 as outcome of first round and Anritsu CR can be agreed/revised as needed |
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| **R4-2015150** | Anritsu: Just a placeholder at the moment to say we’d like to check the proposed Noc level, as it may not be high enough to give the intended Es/Iot for a test case using Spherical Coverage direction. |
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| **R4-2015154** | Moderator: More than 1 errors on cover sheet based on secretary remarks: “The secretary commented that the CR coversheet is missing 'Reason for change', 'Summary of change and Consequences if not approved' fields. The CR coversheet should be written by using the CR template.” |
| Ericsson : Sorry for the 2 errors on the cover page. We although we understand the drive for quality we think it would be beneficial to correct cover page errors and agree this in the 2nd round since the purpose of this CR is to correct poor quality specification text (FR1 used in tests where the test title is FR2+FR2). |
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| **R4-2015157** |  |
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| **R4-2015161** | Moderator: More than 1 errors on cover sheet based on secretary remarks: “The secretary commented that the CR coversheet is missing 'Reason for change', 'Summary of change and Consequences if not approved' fields. The CR coversheet should be written by using the CR template.” |
| Anritsu: Agree with the CR, but it is also covered by Anritsu R4-2014017 which includes other corrections. |
| Ericsson : Can be marked as merged with Anritsu R4-2014017 as outcome of first round and Anritsu CR can be agreed/revised as needed. This approach also addresses cover sheet errors. |
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| **R4-2015163** | Anritsu: Table A4.5.6.1.1.1-3 has Noc in dBm/15kHz as [-104 ], should these [ ] also be removed? If possible, could we also make an editorial corrections to the Table title, should be A.4.5.6.1.1.1-3. |
| Ericsson : OK to address Anritsu comments with revision in 2nd round |
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| **R4-2015165** | Moderator: More than 1 errors on cover sheet based on secretary remarks: “The secretary commented that the CR coversheet is missing 'Reason for change', 'Summary of change and Consequences if not approved' fields. The CR coversheet should be written by using the CR template. If neither UICC, ME, Radio Access Network or Core Network boxes are checked, the CR does not change anything and hence the CR is not needed.” |
| Ericsson : Sorry for 2 cover page errors. In our view it is important and urgent for RAN5 that square brackets are removed ASAP and we’d be able to correct these errors in a 2nd round revision to improve the stability and quality of the specification text itself in this meeting. |
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| **R4-2015449** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary commented if neither UICC, ME, Radio Access Network or Core Network boxes are checked, the CR does not change anything and hence the CR is not needed.” |
| Ericsson : OK |
| Huawei: We will fix coversheet issue in revised version. |
|  | MediaTek: In current TS38.331 as follows, the Qrxlevmin shall be an even number. Thus, the Qrxlevmin proposed in this CR may be revised. We also propose a solution that raising the value of Sintrasearch in R4-2014374 to fix this problem for A.6.1.1.1   |  | | --- | | The IE Q-RxLevMin is used to indicate for cell selection/ re-selection the required minimum received RSRP level in the (NR) cell. Corresponds to parameter Qrxlevmin in TS 38.304 [20]. Actual value Qrxlevmin = field value \* 2 [dBm].  -- ASN1START  -- TAG-Q-RXLEVMIN-START  Q-RxLevMin ::= INTEGER (-70..-22)  -- TAG-Q-RXLEVMIN-STOP | |
| **R4-2015451** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary commented if neither UICC, ME, Radio Access Network or Core Network boxes are checked, the CR does not change anything and hence the CR is not needed.” |
| Ericsson : Not clearly explained why existing margins in thresholds not already enough since the test is not fading and both thresholds are either 6dB or greater away from the nominal SS-RSRP. |
| Huawei: We will fix coversheet issue in revised version.  to Ericsson: In this test IO on LTE carrier is -62.43 dBm, So according to 38.133 Table 10.1.4.1.1-1 RSRP absolute accuracy for Io range [-70, -50] shall be 8dB. but in this test margin is only 7dB. So we shift the thereshold by 1dB. |
| **R4-2015453** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary commented if neither UICC, ME, Radio Access Network or Core Network boxes are checked, the CR does not change anything and hence the CR is not needed.” |
| Ericsson : In this CR it is indicated that 2dB extra margin for fading comes from RAN5. To us it sounds more like RAN4 task to consider what extra margins are needed to cover fading and from recollection we used >2dB (4dB) to cover extra fading variation in LTE tests, would it not be similar here? |
| Qualcomm: This requires further thought into how much margin there should be and how to handle it. |
| Huawei: We will fix coversheet issue in revised version.  to Ercisson & Qualcomm: I agree it is RAN4's task to determine how many extra margin are needed for fading. We had submitted CR (R4-1914426) in previous meeting to fix similar issue in other TC. In that CR we already explained the reason of using 2dB margin for fading. Actually, in LTE test RAN4 does define a margin for fading. However, the margin given by RAN4 is **3dB** (for example, 36.133 A.8.16.1). And during the TT analysis RAN5 finds that 2dB is already enough. So using 2dB margin is even tighter than LTE. |
| **R4-2015455** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary commented if neither UICC, ME, Radio Access Network or Core Network boxes are checked, the CR does not change anything and hence the CR is not needed.” |
| Ericsson : Correction to Configs 1,2,4,5 (52 RBs) seems correct. For correction of Configs 3 and 6 (106 RBs), we get Io to -58.4997 which then should read as -58.50 after rounding and two decimals. |
| Qualcomm: agree with Ericsson |
| Huawei: We will fix coversheet issue in revised version.  to Ercisson & Qualcomm: fine to use -58.50 |
| **R4-2015459** | Ericsson : 10dB margin to rsrp-ThresholdSSB seens large, please explain a bit further. |
| Qualcomm: a paper explaining how the numbers were derived would be useful to be able to follow all the numbers. The coversheet does not contain any explanation of where the changes are coming from. |
| Huawei:  To Ericsson: 10dB margin is also used for BFD/CBD tests in FR1.  To Qualcomm: the same SNR levels are used for A.5.5.5.5 EN-DC scheduling availability restriction during Beam Failure Detection and Link Recovery for FR2 PSCell configured with SSB-based BFD and LR in non-DRX mode |
| **R4-2015503** | Ericsson : OK |
| Qualcomm: seems ok |
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| **R4-2015531** | Ericsson : Overlaps partly with our CR R4-2016024. Suggest these change can be merged to our CR, |
| Qualcomm: configuration of *timeRestrictionForChannelMeasurements* would be better included in a table and set to on. We should avoid overlapping changing so merging into a single CR would be desirable. |
| Huawei:  To Qualcomm: We could revise the CR and add the timeRestrictionForChannelMeasurements in the table. Considering the additional changes about the L1-RSRP in this CR, maybe it is better that CR R4-2016024 could be merged to our CR as other changes are the same. |
| **R4-2015674** | Ericsson : OK |
| Qualcomm: ok |
| Huawei: the last change (change 14) is conflicting with our CR R4-2015674, which tries to specify the exact test requirements. Suggest to remove change 14 in this CR. Other changes in this CR are OK. |
| **R4-2015738** | Ericsson : OK |
| Qualcomm: we are still checking this CR, there are major change and many details on the test. We will provide feedback in the 2nd round. |
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| **R4-2015740** | Ericsson : OK |
| Qualcomm: seems ok |
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| **R4-2015823** | Ericsson : OK |
| Qualcomm: ok |
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| **R4-2015993** | Ericsson : OK, however if possible we prefer to rename Noc1 as just Noc by itself now, since Noc2 is gone. |
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| **R4-2015995** | Anritsu: In Tables A.8.5.2.1.2.2-3, A.8.5.2.2.2.2-3, A.8.5.2.3.2.2-3 and their notes, “SS-RSRP” should be SSB\_RP, as it is an applied value not a reported value. |
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| **R4-2016024** | Ericsson : OK |
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| **R4-2016160** | Moderator: 1 error on cover sheet based on secretary remarks: “The secretary wondered what is the correct Specification? It reads 36.133 on the coversheet but the CR is allocated for 38.133.” |
| Qualcomm: ok |
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| **R4-2016163** | Ericsson : OK |
| Qualcomm: ok |
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| **R4-2016164** | Ericsson : OK |
| Qualcomm: ok |
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## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

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|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

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|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

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| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

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| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |