**3GPP TSG-RAN WG4 Meeting #94-e R4-20xxxxx**

**Electronic Meeting, Feb.24th – Mar.6th 2020**

**Agenda item:** 6.11.1-6.11.2

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for RAN4#94e\_#43\_NR\_NewRAT\_RRM\_Perf\_Part\_1

**Document for:** Information

# Introduction

The documents in agenda items 6.11.1 and 6.11.2 mainly contains CRs to correct test configuration or test cases. There are following 2 main topics and sub-topics under each main topic:

* Topic #1: Correction to RRM test configuration
	+ Issue 1-1: new OCNG pattern
	+ Issue 1-2: correction to TRS configuration
* Topic #2: Correction to RRM tests
	+ Issue 2-1: Editorial corrections
	+ Issue 2-2: Correction to event used in RRM test with FR2
	+ Issue 2-2: Correction to AoA setup in FR2 RRM tests

# Topic #1: Correction to RRM test configuration

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2001619 | Huawei, HiSilicon | Cat F CR: define new OCNG pattern for FR2 where OCNG is not transmitted in REs in SSB slots. |
| R4-2001620 | Huawei, HiSilicon | Cat A CR: |
| R4-2001592 | Huawei, HiSilicon | Cat F CR: TRS resources (CSI-RS) location in FR1 is changed to symbol 9 in the slot. |
| R4-2001593 | Huawei, HiSilicon | Cat A CR: |

## Open issues summary

### Sub-topic 1-1

**Issue 1-1: new OCNG pattern**

* Proposals
	+ New OCNG pattern for FR2 is proposed where OCNG is not transmitted in REs in SSB slots.
* Recommended WF
	+ Collect feedback from companies if there is any concern on introducing new OCNG pattern and on technical details in the CR in R4-2001619.

### Sub-topic 1-2

**Issue 1-2: correction to TRS configuration**

* Proposals
	+ TRS resources (CSI-RS) location for CSI-RS resource 2 and 4 in FR1 is changed to symbol # 9 in the slot. In the existing configuration the CSI-RS location for CSI-RS resource 2 and 4 in FR1 is symbol # 10.
* Recommended WF
	+ Collect feedback from companies if there is any concern on the proposed changes to the CR in R4-2001592.

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 1-1: Sub topic 1-2:….Others: |

### CRs/TPs comments collection

*Major close-to-finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2001592 | AnritsuAs can be seen in TS 38.214 5.1.6.1.1, configuration of symbol is defined as follows. cid:image001.png@01D5E693.50BBBEC0, cid:image002.png@01D5E693.50BBBEC0, orcid:image003.png@01D5E693.50BBBEC0 for frequency range 1 and frequency range 2,Therefore the combination of 6&9 as proposed in the CR cannot be configured.Feb.26 To comment from Huawei/HiSiliconWe are also fine to change the TRS combination to symbol 5 and 9 in a slot. |
| Huawei/HiSilicon |
| Thanks for Anritsu’s comments. We are fine to change the TRS combination to symbol 5 and 9 in a slot. |
| YYY | Company A |
| Company B |
|  |

## 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.*

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

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **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*

|  |  |
| --- | --- |
| **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*

|  |  |
| --- | --- |
| **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

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2000293 | Samsung | Cat F CR: Editorial changes |
| R4-2000294 | Samsung | Cat A CR |
| R4-2000515 | ZTE Corporation | Cat F CR: Editorial changes |
| R4-2000516 | ZTE Corporation | Cat A CR |
| R4-2001223 | ANRITSU LTD | Cat F CR: Editorial changes |
| R4-2001225 | ANRITSU LTD | Cat A CR |
| R4-2001365 | Rohde & Schwarz | Cat F CR: Corrected event from event A3 to event A4 in tests in annex A.5 |
| R4-2001366 | Rohde & Schwarz | Cat A CR |
| R4-2001367 | Rohde & Schwarz | Cat F CR: Corrected event from event A3 to event A4 in tests in annex A.7 |
| R4-2001368 | Rohde & Schwarz | Cat A CR |
| R4-2001369 | Rohde & Schwarz | Cat F CR: Correction or addition of AoA setup in different FR2 RRM test cases in annex A.5 |
| R4-2001370 | Rohde & Schwarz | Cat A CR |
| R4-2001371 | Rohde & Schwarz | Cat F CR: Correction or addition of AoA setup in different FR2 RRM test cases in annex A.8 |
| R4-2001372 | Rohde & Schwarz | Cat A CR |

## Open issues summary

### Sub-topic 2-1

**Issue 2-1: Editorial corrections**

* Proposals
	+ Editorial corrections in R4-2000293, R4-2000515 and R4-2001223.
	+ Note: some of the changes related to spelling and font size of titles in R4-2000515 and R4-2001223 are supposed to be done by MCC (ETSI edit help)
* Recommended WF
	+ Agree CRs in R4-2000293, R4-2000515 and R4-2001223 and their respective cat A CRs unless any concern is raised.

### Sub-topic 2-2

**Issue 2-2: Correction to event used in RRM test with FR2**

* Proposals
	+ The CR changes event A3 to event A4 in the test cases in R4-2001365 and R4-2001367. Ok, it is A4 as A4 threshold and levels are for A4
* Recommended WF
	+ The tests in R4-2001365 and R4-2001367 are supposed to use event A4 and A4 threshold is also configured. Mistakenly A3 is mentioned in the tests.
	+ Agree CRs in R4-2001365 and R4-2001367 and their respective cat A CRs unless any concern is raised.

### Sub-topic 2-3

**Issue 2-2: Correction to AoA setup in FR2 RRM tests**

* Proposals
	+ The AoA setup to be used in the tests is missing or incorrect in several test cases. The missing AoA setup is added or corrected in the test cases.
* Recommended WF
	+ RAN4 has previously agreed with AoA setup for different FR2 RRM test cases.
	+ Interested companies to review the AoA setup updated or added in different FR2 RRM test cases in R4-2001369 and R4-2001371.

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 1-1: Sub topic 1-2:….Others: |

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2001369 | Huawei, HiSilicon: - For CSI-RS RLM test case the AoA setup has been decided in RAN4#91 under R4-1907233. Non-DRX will be setup 3 and DRX will be setup 1- Do we need same changes for corresponding test cases in section A.7? |
| Company B |
|  |
| R4-2001223 | Anritsu:This CR was withdrawn as advised by Kai-Erik, as the corrections can be done by ETSI Edit help. Similarly the Cat A CR R4-2001225 was withdrawn. |
| Company B |
|  |

## 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.*

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

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **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*

|  |  |
| --- | --- |
| **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*

|  |  |
| --- | --- |
| **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”* |