3GPP TSG-RAN WG4 Meeting # 96-e draft R4-2012558

Electronic Meeting, 17 – 28 August, 2020

**Agenda item:** 7.17

**Source:** Moderator (Huawei)

**Title:** Email discussion summary for [96e][311] OTA\_BS\_testing

**Document for:** Information

# Introduction

This is the email discussion summary for [96e][311] OTA\_BS\_testing on OTA BS testing WI, with the following topics covered:

* Topic 1: TR 37.941 cleanup
* Topic 2: BS measurement types
* Topic 3: MU / TT values: derivation and tables
* Topic 4: Annexes
* Topic 5: Others

Conclusion of the first round should conclude if the submitted CRs can be agreed or need to be revised.

*List of candidate target of email discussion for 1st round and 2nd round*

* 1st round: TBA
* 2nd round: TBA

# Topic #1: TR 37.941 cleanup

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2011257 | Huawei | CR to TR 37.941: editorial cleanup, Rel-15  CR removing [] and other editorial corrections. It is expected that this TP may be revised during the meeting to incorporate more corrections.  This CR will require alignment with new inputs from ROHDE & SCHWARZ on PWS MU contributors in R4-2011215. |
| R4-2011258 | Huawei | CR to TR 37.941: editorial cleanup, Rel-16  Category A CR, based on R4-2011257 |

## Open issues summary

### Sub-topic 1-1

### Sub-topic 1-2

## Companies views’ collection for 1st round

### Open issues

### CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2011257/58 | *Company A* |
| *Company B* |
|  |

## Summary for 1st round

### Open issues

### CRs/TPs

|  |  |
| --- | --- |
| **CR number** | **CRs/TPs Status update recommendation** |
| R4-2011257 | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |
| R4-2011258 |  |
|  |  |
|  |  |

## 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: BS measurement types

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2009970 | Ericsson | CR to TR 37.941: Clause 6 Measurement Types  Updated CR from the previous meetings, further corrected based on offline discussion on RAN4 reflector before the meeting. |
| R4-2009972 | Ericsson | CR to TR 37.941: Clause 6 Measurement Types  Category A CR, based on R4-2009970. |

## Open issues summary

### Sub-topic 2-1

### Sub-topic 2-2

## Companies views’ collection for 1st round

### Open issues

### CRs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2009970/72 | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

### CRs/TPs

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| R4-2009970 | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |
| R4-2009972 |  |

## 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 #3: MU / TT values: derivation and tables

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2011203 | ROHDE & SCHWARZ | Plane Wave Synthesizer – Pending MU term  Analysis of the MU term that was still pending for the frequency range up to 4.2GHz. |
| R4-2011215 | ROHDE & SCHWARZ | CR to TR 37.941: Completion of MU terms for PWS.  Based on discussion in R4-2011203. |
| R4-2011231 | ROHDE & SCHWARZ | Mirror CR to TR 37.941: Completion of MU terms for PWS.  Category A CR based on R4-2011215.  NOTE: this Cat A CR was already uploaded (while it shouldn’t). To keep it in mind in case of R4-2011215 revision. |

## Open issues summary

### Sub-topic 3-1

### Sub-topic 3-2

## Companies views’ collection for 1st round

### Open issues

### CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2011215 /  R4-2011231 | Moderator: Cat A CR in R4-2011231 was already uploaded (while it shouldn’t). To keep it in mind in case of R4-2011215 revision. |
| *Company A* |
| *Company B* |

## Summary for 1st round

### Open issues

### CRs/TPs

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| R4-2011215 | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |
| R4-2011231 |  |
|  |  |
|  |  |
|  |  |

## 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 #4: Annexes

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2011259 | Huawei | CR to TR 37.941: new Annex for Excel spreadsheets with MU derivation, Rel-15  CR with new annex proposed as a placeholder for the MU calculation Excel sheets.  This CR will require revision based on new inputs from ROHDE & SCHWARZ on PWS MU contributors and updated Excel sheets included in R4-2011203. |
| R4-2011260 | Huawei | CR to TR 37.941: new Annex for Excel spreadsheets with MU derivation, Rel-16  Category A CR based on R4-2011259. |

## Open issues summary

### Sub-topic 4-1

### Sub-topic 4-2

## Companies views’ collection for 1st round

### Open issues

### CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2011259/60 | *Company A* |
| *Company B* |
|  |

## Summary for 1st round

### Open issues

### CRs/TPs

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| R4-2011259 | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |
| R4-2011260 |  |

## 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 #5: Others

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2009971 | Ericsson | CR to TR 37.941: Clause 6.3.3 Angular alignment in TRP measurements  Updated CR from the previous meetings, further corrected based on offline discussion on RAN4 reflector before the meeting. |
| R4-2009973 | Ericsson | CR to TR 37.941: Clause 6.3.3 Angular alignment in TRP measurements  Category A CR based on R4-2009971. |
| [R4-2011255](http://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_96_e/Docs/R4-2011255.zip) | Huawei | CR to TS 37.145-2: internal TR references corrections (wrt. TR 37.941 for OTA BS testing), Rel-15  This CR is a fine-tuned version based on the agreed content of R4-2007454, which was not implemented into TS 37.145-2 due to comments received from MCC after RAN4#95-e meeting. |
| R4-2011256 | Huawei | CR to TS 37.145-2: internal TR references corrections (wrt. TR 37.941 for OTA BS testing), Rel-16  Category A CR based on [R4-2011255](http://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_96_e/Docs/R4-2011255.zip). |

## Open issues summary

### Sub-topic 5-1

### Sub-topic 5-2

## Companies views’ collection for 1st round

### Open issues

### CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2009971/73 | *Company A* |
| *Company B* |
|  |
| [R4-2011255](http://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_96_e/Docs/R4-2011255.zip)/56 | *Company A* |
| *Company B* |
|  |

## Summary for 1st round

### Open issues

### CRs/TPs

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| R4-2009971 | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |
| R4-2009973 |  |
| [R4-2011255](http://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_96_e/Docs/R4-2011255.zip) |  |
| [R4-201125](http://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_96_e/Docs/R4-2011255.zip)6 |  |

## 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”* |