**3GPP TSG-RAN WG4 Meeting #94-e R4-200xxxx**

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

**Agenda item: 7.13.1**

**Source:** Moderator (NTT DOCOMO, INC.)

**Title:** Email discussion summary for RAN4#94e\_#73\_LTE\_high\_speed\_enh2\_RRM

**Document for:** Information

# Introduction

In this contribution, we provide the companies’ contributions summary and open issues summary for RRM in Rel-16 LTE high speed WI.

Related agendas are as follows:

* 7.13.1 RRM core requirements maintenance (36.133)
* 7.13.2 RRM performance requirements (36.133)

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

* 1st round: Collect companies’ feedback and revised CRs, if needed.
* 2nd round: Agree CRs.

# Topic #1: RRM maintenance

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2000641 | vivo | CR to add highSpeedEnhMeasFlag2-r16 in Tmeasure\_intra (Table 8.1.2.2.1.2-4) |
| R4-2000873 | NTT DOCOMO, INC. | CR to remove remaining square brackets from TS 36.133 |

## Open issues summary

### Sub-topic 1-1:Corrections in TS36.133

**Issue 1-1: Tmeasure\_intra when *highSpeedEnhMeasFlag2-r16* is provided**

* Proposals
  + Option 1: Apply the requirement for UE configured with *highSpeedEnhancedMeasFlag*
* Recommended WF
  + Option 1 is agreeable?

**Issue 1-2: Finalization CR**

* Proposals
  + Option 1: Remove all square brackets
* Recommended WF
  + Remove all square brackets.

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| Huawei, HiSilicon | Issue 1-1: In general, *highSpeedEnhMeasFlag2-r16* shall be added in table *Tmeasure\_intra* as it is agreed that there is no enhancement for measurement requirement in r16 HST. However the *highSpeedEnhMeasFlag2-r16* shall be added in the text content as well. For example,  *“*When *highSpeedEnhancedMeasFlag* or *highSpeedEnhMeasFlag2-r16* is configured in the RRC\_CONNECTED state the measurement period for intra frequency measurements is Tmeasure\_intra as shown in table 8.1.2.2.1.2-4*”* |
| Nokia, Nokia Shanghai Bell | Issue 1-1: Based on our system simulation results in R4-1906904, the same requirements as for Rel-14 LTE HST can be reused. |
| Ericsson | Sub topic 1-1: **Tmeasure\_intra when *highSpeedEnhMeasFlag2-r16* is provided**  We are fine with the CR since the measurement period for 500km/h should reuse rel14 350km/h requirements  Sub topic 1-2: Removal of square brackets  We are fine to remove square brackets from R16 requirements  …. |
| CMCC | Issue 1-1: compared with the measurement delay specified for 350km/h, there is no enhancement for measurement delay with 500km/h, we are OK to reuse the Rel-14 measurement delay requirements when *highSpeedEnhMeasFlag2-r16* is provided |

### 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** |
| R4-2000641 | Company A |
| Company B |
|  |
| R4-2000873 | Company A |
| Nokia, Nokia Shanghai Bell – OK |
|  |

## 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 1-1: Corrections in TS 36.133** | Tentative agreements:  Both issue 1-1 and 1-2 are nearly concluded.  Issue 1-1: The CR prepared by vivo needs to be revised based on Huawei’s comment, but it is just small modification. In addition, moderator think square bracket of IE can be removed according to the conclusion of issue 1-2.  Issue 1-2: The original CR prepared by DOCOMO is agreeable  Recommendations for 2nd round:  Issue 1-1: The revised CR will be agreed. Moderator would like to ask vivo to prepare the revised CR.  Issue 1-2: None if the original CR is agreed. |

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 | None | none |

### 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** |
| R4-2000641 | As mentioned in section 1.4.1, this CR needs to be revised. |
| R4-2000873 | As mentioned in section 1.4.1, this CR is agreeable. |

## Discussion on 2nd round

### Sub-topic 1-1:Corrections in TS36.133

**Issue 1-1: Tmeasure\_intra when *highSpeedEnhMeasFlag2-r16* is provided**

* Recommended WF
  + Check the revised CR from vivo.

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |
|  |  |

### 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** |
| R4-2002273 |  |
|  |
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## 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”* |
|  |  |