**3GPP TSG-RAN WG4 Meeting # 97-e R4-2017298**

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

**Agenda item:** 10.24.2, 10.24.3

**Source:** Huawei, HiSilicon

**Title:** Email discussion summary for [97e][228] NR\_FR2\_FWA\_Bn257\_Bn258\_RRM

**Document for:** Information

# Introduction

A new WI for FR2 FWA UE with maximum TRP of 23dBm for band n257 and n258 was approved in RAN#87-e meeting. This work item is to introduce the requirements on FWA UE, which maintains the max EIRP of 43dBm and max TRP of 23dBm upper power limitation, and to study and specify corresponding RF requirements for such kind of UE type. The RF part and RRM/Demod part are planned to be completed by #96 and #98, respectively.

This email discussion is to address the open issues in RRM requirements part.

# Topic #1: RRM core part

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2015480 | Huawei, HiSilicon | DraftCR on RRM core requirements for FR2 FWA UE |
| R4-2011254 | Ericsson, SoftBank | Big CR on RRM core requirements for FR2 FWA UE power class in 36.133 |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

**N/A**

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Issue 1-1:  ….  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** |
| R4-2015480 | MTK: Can we replace [TBD] by [PC for FR2 FWA]? So that we add a bit information on what we are reserving for. Otherwise, it could be very confusing to others who do not participate in this discussion. |
| Ericsson: It is likely that main session agrees on new UE power class (e.g. PC6 since PC5 is for NR-U) in this meeting. We will know better after GTW main session on Monday. If there is an agreement in RF/main session then the two CRs (R4-2015480 and R4-2016178) can be revised and replace TBD power class with the agreed power class. This will allow closing of the core WI. If the PC is not agreed in this meeting then we are fine to replace TBD with PC for FR2 FWA. |
| Qualcomm: we are fine with Ericsson’s proposal |
| Huawei: If there is no agreement on PC definition for new FR2 FWA UE in this meeting, we are fine with MTK’s proposal, to replace [TBD] by [PC for new FWA]. |
| R4-2016178 | MTK: Can we replace TBD by [PC for FR2 FWA]? So that we add a bit information on what we are reserving for. Otherwise, it could be very confusing to others who do not participate in this discussion. |
| Ericsson: Same comments as for R4-2015480. |
| Qualcomm: WE are fine with Ericsson’s proposal |
| Huawei: same comments as for R4-2015480. |

## 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** |
| **Issue#1-1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |
| **Issue#1-2** | *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** |
| R4-2015480 | *To be revised* |
| R4-2016178 | *To be revised* |

## Discussion on 2nd round (if applicable)

### CRs/TPs comments collection

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2017262  (TS 36.133) |  |
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| R4-2017261  (TS 38.133) |  |
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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*

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| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| R4-2017261 | *agreeable* |
| R4-2017262 | *agreeable* |

# Topic #1: RRM performance part

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2015481 | Huawei, HiSilicon | DraftCR on RRM performance requirements for FR2 FWA UE |
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## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

**N/A**

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Issue 2-1:  ….  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** |
| R4-2015481 | MTK: Can we replace some [TBD] by [PC for FR2 FWA]? So that we add a bit information on what we are reserving for. Otherwise, it could be very confusing to others who do not participate in this discussion. |
| Ericsson: Not sure why the existing tables are deleted. New minimum SSB levels should be added only for the new PC. This CR is for performance part so it is not critical time wise since there are more issues e.g. antenna gain, min signal level etc. These issues may be difficult to resolve in this meeting even if the new PC is agreed. |
| Qualcomm: Agree with most of the Ericsson comments. From what we understand, the CR is trying to replicate what was in the specs for PC1 which is fine but should be done properly. It will likely be difficult to agree numbers for all the antenna gains but there could be more discussion. |
| Huawei: this CR shows the impacts of introducing new FR2 FWA UE on RRM performance requirements. For the parameters used for new FR2 FWA UE, we leave most of them as TBD. RAN4 can have further discussion. |
| 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** |
| **Issue#2-1** | *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** |
| R4-2015481 | *To be revised* |

## Discussion on 2nd round (if applicable)

### CRs/TPs comments collection

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2017263  (TS 38.133) |  |
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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*

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| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| R4-2017263 | *agreeable* |