3GPP RAN TSG Meeting #92-e RP-21xxxx

Electronic meeting, June 14 – 18, 2021

**Agenda item:** 9.7.4.8

**Source:** Moderator (Nokia)

**Title:** Email discussion summary of [92-e-22-RF-FR2-WI]

**Document for:** Information

# Introduction

In RAN#92-e, an email thread [92-e-22-RF-FR2-WI] is assigned to discuss the following tdocs: RP-211174, 1175, 1394, 1395, 1460.

The plan is to discuss on the proposed changes to the WID first. Then the rapporteur can update the WID, if needed, based on the outcome of this email thread.

# Topic #1: RP-211174 and RP-211175

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| RP-211174 and RP-211175 | Nokia, Nokia Shanghai Bell | This WID revision proposes to * To put this objective on hold until there is a operator request for band combination. **Study and if feasible define UE RF requirements for inter-band CA within the same freq. group (e.g. 28GHz + 28GHz) for (IBM) based on explicitly requested band combinations**
* Remove these objectives from UL gaps for self-calibration and monitoring.
	+ **PA efficiency and power consumption**
	+ **Transceiver calibration due to temperature variation**
* Add a new objective
	+ **Enhancement of beam correspondence during initial access and RRC\_INACTIVE state [RAN4 RF]**
		- **SSB-based without UL beam sweeping**
		- **For initial access, verification of beam correspondence based on msg1 spherical coverage (at least)**
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## Company views

**Is WID revision acceptable?**

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| --- | --- |
| **Company** | **Comments** |
| Ericsson | We are fine with the proposed updates/revisions. |
| Apple | We are fine with the revisions as described in the first two bullet points but have concern on the third bullet point to add a new objective for “Enhancement of beam correspondence during initial access and RRC\_INACTIVE state”. We think UE beam correspondence can be well verified in the connected mode. There is no need and not practical to define new requirements for beam correspondence based on msg1 spherical coverage during initial access. If a UE can successfully enter the connected mode, that already implies the UE can pass the requirement for initial access.  |
| Qualcomm | We support the amendment, especially considering the SDT motivation |

## Initial Summary

# Topic #2: RP-211394 and RP-211395

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| RP-211394 and RP-211395 | Huawei, HiSilicon | Add a new objective under UL gaps for self-calibration and monitoring.* **Coherent uplink MIMO**
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## Company views

**Is the proposed new objective agreeable?**

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| --- | --- |
| **Company** | **Comments** |
| Apple | We are okay with the objective. |

## Initial Summary

# Topic #3: RP-211460

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| RP-211460 | MediaTek Inc. | * **Proposal 1: Plenary intervention is needed to resolve current situation on MRTD and MTTD for FR2 inter band CA with CBM in RAN4.**
* **Proposal 2: If MRTD 260ns is not agreeable, remove** **CBM related objectives in the WID.**
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## Company views

**Is MRTD 260ns for CBM UE agreeable? If not is CBM related objectives removed from WID?**

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| --- | --- |
| **Company** | **Comments** |
| Ericsson | We do NOT agree with MRTD of 260 ns for CBM. We suggest to keep the current objective on CBM in the WID. In R4-2108037, “WF on RRM requirements for FR2 Inter-band DL CA and UL CA” was approved. It has 3 options and option 2 (3 us but with degradation after certain value) was new. Companies are investigating different options until August meeting. |
| Apple | We agree that MRTD should be less than half of the CP length for 120kHz SCS for CBM and 260ns defined for intra-band DL CA can also be specified for inter-band DL CA from the same frequency group. If there is no demand for inter-band CA from the same frequency group, we think the CBM objective can be removed from the WID.  |
| Qualcomm | We are ok with restricting the MRTD for CBM UEs to 260 ns. Given the current deadlock on MRTD value, we can consider a value greater than 260 ns for CBM UEs only if an agreeable requirement framework to verify MRTD capability is developed.  |

## Initial Summary

# Final proposals/recommendations