

3GPP TSG-RAN Meeting #94e

RP-213627

Electronic Meeting, 6 – 17 December 2021

Agenda item: 9.3.4.10

Source: RAN4 Vice-Chair (Intel)

Title: Moderator's summary of discussion [94e-50-R17-NRMG-WID]

Document for: Discussion and decision

1 Introduction

This document is the summary of the email discussion [94e-50-R17-NRMG-WID] on a potential revision of the "NR and MR-DC Measurement Gap Enhancements" WI objectives (NR_MG_enh). Based on the discussions the recommendations will be provided.

The following documents are covered in this email thread.

Table 1: Tdoc list

Tdoc	Title	Source
RP-213312	Revised WID: NR and MR-DC Measurement Gap Enhancements	Intel Corporation, MediaTek Inc.

2 Initial round

2.1 Discussion

Issue #1: NR_MG_enh WID update in RP-213312

The following changes to the NR_MG_enh WID objectives are proposed in RP-213312:

Table 2: Proposed changes in RP-213312

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Notes

- ~~The joint requirements for objectives (1), (2) and (3) can be discussed in the WI stage after stabilizing individual requirements.~~
- The work on all objectives should consider UEs in RRC CONNECTED mode only.
- The work includes EN-DC, NE-DC, NR-NR DC and standalone operations and includes both per-FR MG capable UE and per-UE MG capable UE.
 - o Further (de)prioritization on these use cases in MR-DC is up to RAN4.

Please indicate whether you agree with updated NR_MG_enh WID objectives in RP-213312. If not, please, indicate an alternative and possible modifications.

Feedback Form 1: Comments on MG_enh WID changes in RP-213312

1 – Nokia Japan

First of all, we agree with down-scoping of the listed use cases while we think it's more beneficial for RAN to do some down scoping in this RAN#94e considering only two RAN4 meetings are left.

With the above in mind and to avoid impacting on the existing LTE system, our alternative is as follows.

· The work includes ~~EN-DC, NE-DC~~, NR-NR DC and standalone operations and includes both per-FR MG capable UE and per-UE MG capable UE.

~~· Further (de)prioritization on these use cases in MR-DC is up to RAN4.~~

2 – Intel

We support the change. Maybe a response to Nokia about further down-scoping: it is still under RAN4 discussion how do we consider different scenarios. Though we agree that a further down-scoping is helpful at some extent for the general progress, we think it is still not the correct time to get rid of EN-DC or NE-DC at this moment. We will come back after we give it a try in WG discussion.

3 – vivo Mobile Communication (S)

The 1st change is necessary as it is not possible to finish this in Rel-17 and the joint requirements are considered to be one of candidate MG enhancements in Rel-18.

The 2nd change is in general fine. But it seems not so necessary to have such change as RAN4 can make decisions on prioritization and deprioritization anyway based on progress on the WI. If anything cannot be completed on schedule and no extension of the WID is expected, then it will be dropped consequently.

4 – ZTE Wistron Telecom AB

(1) The first removed bullet is actually on condition that the individual requirements are stable., and it is not mandatory either ("can be discussed") If the condition is not met yet, "joint requirements" would not happen, thus it seems no harmful to keep this sentence in this sense. But if now we can see clearly that

in the last quarter of this WI, there is no possibility of discussing joint requirements, this sentence can be removed to avoid any potential distraction.

(2) The added sub-bullet on use cases prioritization, if it is completely up to RAN4 discussion, there is no need to add this sub-bullet.

5 – Ericsson LM

We also support the first change i.e. combination of objectives 1, 2 and 3 are not supported in R17. The second change is not needed. This can be further discussed in RAN4.

6 – Huawei Technologies France

We are fine with the changes suggested in RP-213312.

- On the first change related to joint operation, based on the status of the discussion for each individual objective, we understand that RAN4 would not have enough time to work on the joint operation in Rel-17, so it is better to remove the first bullet so that RAN4 does not need to come back to this issue in the WG meetings.
- On the second change related to MR-DC, we understand the decision on the (de)prioritization should be up to RAN4. For example, RAN4 has already agreed to de-prioritize MR-DC scenarios for pre-configured MG, and RAN4 and RAN2 are currently evaluating whether NCSG can be supported in MR-DC scenarios, so we do not think RAN intervention is needed at current stage. It is fine to include the sub-bullet suggested in RP-213312 so that companies can bring inputs to the next RAN4 meeting, but we are also fine to not have it if companies think it is business as usual.

7 – China Mobile Com. Corporation

We support the 1st change considering the current progress in RAN4. For the 2nd change, we are open to either add it or not if the common understanding is that RAN4 will continue the technical discussion.

8 – CATT

We support the 1st change considering there is not enough time to define the joint requirements. For the 2nd change, the added sentence is aligned with our understanding. Since the deprioritization of MR-DC case was already discussed in RAN4 meeting and the conclusion has been made for pre-configured MG, we think the discussion will continue in the next RAN4 meeting anyway. So we are fine to either add the sentence or not.

2.2 Moderator summary for initial round

Two WID objectives changes were discussed in the initial round:

- **Change #1:** remove note “The joint requirements for objectives (1), (2) and (3) can be discussed in the WI stage after stabilizing individual requirements. ”
- **Change #2:** add a note “Further (de)prioritization on these use cases in MR-DC is up to RAN4.”

Change #1 (remove note “The joint requirements for objectives (1), (2) and (3) ”)

8 companies provided comments. The majority of companies agree with the proposed change (Intel, Nokia,

vivo, Ericsson, Huawei, CMCC, CATT). One company (ZTE) commented that objective can be removed if “in the last quarter of this WI, there is no possibility of discussing joint requirements”.

Moderator recommendation: Agree on Change #1

Change #2 (add a note “Further (de)prioritization on these use cases in MR-DC is up to RAN4.”)

8 companies provided comments. Two companies commented that the change is not needed (ZTE, Ericsson) and this can be discussed in RAN4 directly. Four companies are ok with either adding the note or not doing it (vivo, CMCC, CATT, Huawei) under clarification that such prioritization discussion is a business as usual. Two companies support the change (Nokia, Intel). One company (Nokia) proposed to additional de-prioritization of EN-DC and NE-DC use cases, while such change was opposed by one company (Intel). Several companies mentioned that de-prioritization of MR-DC case was already discussed in previous RAN4 meetings and the conclusion has been made for pre-configured MG and there is ongoing discussion on NCSG, and therefore, additional agreements in RAN plenary may not be required.

Moderator recommendation: Do not include change #2 in the revised WID. Companies can further discuss (de)prioritization of MR-DC use cases in RAN4 and no additional RAN plenary guidance is needed.

3 Intermediate round

3.1 Discussion

The following proposals are made for the intermediate round

– **Proposal #1: Agree on a Revised WID**

- **Include Change #1 (i.e. remove note “The joint requirements for objectives (1), (2) and (3) can be discussed in the WI stage after stabilizing individual requirements.”)**
- **Do not include Change #2 (i.e. do not add note that “Further (de)prioritization on these use cases in MR-DC is up to RAN4.”).**

Draft of revised WID was uploaded to the Inbox and companies are encouraged to check:

https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_94e/Inbox/Drafts/%5B94e-50-R17-NRMG-WID%5D/draft%20RP-21xxxx%20Revised%20WID%20on%20NR%20MG%20enhancements%20v01%20-%20Moderator.doc

Feedback Form 2: Please provide comments on moderator proposal #1 and revised WID version

1 – Ericsson LM
We are fine with the proposal and the updated WID
2 – China Mobile Com. Corporation
Support proposal#1

<p>3 – Huawei Technologies France</p> <p>We support proposal #1 and the revised WID.</p>
<p>4 – MediaTek Inc.</p> <p>We support proposal#1 and the updated WID</p>
<p>5 – Intel</p> <p>We support the recommended WF proposal and the updated WID.</p>
<p>6 – vivo Mobile Communication (S)</p> <p>We support proposal#1.</p>
<p>7 – ZTE Wistron Telecom AB</p> <p>We support Moderator’s recommendation.</p>
<p>8 – CATT</p> <p>We support proposal #1.</p>
<p>9 – Nokia Japan</p> <p>We accept the proposal from the moderator and are fine to continue technical discussion including down scoping in both RAN2 and RAN4, though we believe some down scoping in this RAN is quite helpful considering that only two meetings are left.</p>

3.2 Moderator summary

9 companies provided comments in the intermediate round and all companies are fine with Proposal #1. Draft of revised WID is also acceptable for companies.

Based on a discussion it is recommended to proceed with Proposal #1 and moderator will include the updated objectives in the revision of RP-213312.

4 Conclusions

Revised WID capturing the updated WI objectives based discussion in the intermediate round is provided in RP-213658 (revision of RP-213312) and recommended to be approved.

Proposal #1: Approve a revised WID RP-213658