3GPP TSG RAN WG1 #108-e R1-22abcde

e-Meeting, February 21 – March 3, 2022

**Agenda item: 7.2.10**

**Source: Moderator (Nokia)**

**Title: [108-e-Prep-AI7.2.10] Preparation phase for Rel-16 NR MR-DC & CA maintenance**

**WI: LTE\_NR\_DC\_CA\_enh-Core**

**Document for: Discussion and Decision**

# 1 Introduction

This document is a summary for the AI 7.2.10 pre-meeting discussion for RAN1#108

* [108-e-Prep-AI7.2.10] Prep phase for Rel-16 MR-DC/CA enhancements

Only one Tdoc was submitted to AI 7.2.10:

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| **TDocs** | **Issue** | **Source** |
| [**R1-2202427**](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_108-e/Docs/R1-2202427.zip) | Correction on Rel-16 UE Power Saving | Huawei, HiSilicon |

# 2 Summary of issues addressed in the Tdocs

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| [**R1-2202427**](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_108-e/Docs/R1-2202427.zip)Correction on Rel-16 UE Power Saving**Issues raised related to TS38.212:** 1. RAN2 changed the configuration structure regarding dormancy cell groups from *DormancySCellGroups,* which explicitly includes a list of dormancy groups*,* in v16.0.0 to *dormancyGroupWithinActiveTime* in v16.7.0. TS 38.331 v16.7.0 specifies *dormancyGroupWithinActiveTime* as dormancy group ID for each configured SCell. Under this new configuration structure of *dormancyGroupWithinActiveTime*, it is not clear how to determine the number of bits for PDCCH dormancy indication field by the description of “according to higher layer parameter *dormancyGroupWithinActiveTime*”.
2. Similar issues exists for the determination of the number of bits for PDCCH dormancy indication field by the description of “according to higher layer parameter *dormancyGroupOutsideActiveTime*”.
3. The description of “with MSB to LSB of the bitmap corresponding to the first to last configured SCell group” is also not clear considering *dormancyGroupWithinActiveTime* is configured per configured SCell in TS 38.331 v16.7.0.

**Proposals to resolve the issues in TS 38.212** 1. Update the description for dormancy indication field to capture that the field size is according to “the highest group index provided by higher layer parameter *dormancyGroupWithinActiveTime*”.
2. Update the description of “with MSB to LSB of the bitmap corresponding to the first to last configured SCell group” to “with MSB to LSB of the bitmap corresponding to the configured SCell group with lowest to highest group index”.
3. Similar changes are applied for the case when *dormancyGroupOutsideActiveTime is configured.*
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**Moderator proposals:**

* Discuss the proposals in the draft CR in R1-2202427 in RAN1#108.

**Please provide company comments to the table below**

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| **Company**  | **Comment** |
| ZTE | This issue was brought up by us and discussed in RAN1#103-e with the following conclusion. It can be found in section *2.5 Dormancy Topic 5* of FL summary R1-2009810.With this conclusion, it seems clear that the number of bits for PDCCH dormancy indication field is based on the number of groups.Previously, companies argued that no spec change was needed. We would prefer not to repeat the discussion. However, we won’t object to further clarify it in the spec if companies’ positions have changed. Conclusion:In description of SCell dormancy indication in 38.212, “…*MSB to LSB of the bitmap corresponding to the first to last configured SCell group*...” implies that the MSB to LSB of the bitmap correspond to the first to last configured SCell group in ascending order of *DormancyGroupID*. |
| vivo | The 1st and 3rd TPs seem to change the current behaviours (originally the size is depending on the number of groups). Noted that the term “group index” in the TPs is not clear– does it mean the Dormancy Group ID?The 2nd TP seems not necessary as pointed out by ZTE. |
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