**3GPP TSG-RAN WG4 Meeting # 116 R4-250xxxx**

**Bengaluru, India, 25 – 29 August, 2025**

**Agenda item:** 4.1.2

**Source:** Moderator (Huawei, HiSilicon)

**Title:** Topic summary for [116][202] Maintenance\_R17

**Document for:** Information

# Introduction

This document provides summary for RRM related Tdocs submitted to the following AI

*4.4.2 Rel-17 maintenance [WI code]*

Please kindly take following notes for Tdoc handling in this topic thread.

1. Open issues are based on Discussion papers.
2. Based on Chair’s guidance, all CRs in this email thread will be first handled in NWM flagging procedure which will be triggered separately.
3. Tdocs that are withdrawn or revised in the Tdocs list will not be handled in the summary document or the NWM flagging procedure.
4. Cat-A CRs will not be handled in the summary document or the NWM flagging procedure.

Recommended issues for online discussion:

Sub-topic 2-1: usage of TCI-ActivatedConfig for SCell activation

Sub-topic 2-2: usage of TCI-ActivatedConfig for SCGactivation

Sub-topic 1-1: definition of “gap association” and “gap association rule”

# Topic #1: NR\_MG\_enh-Core

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2509945**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_116/Docs/R4-2509945.zip) | Nokia | **Proposal 1: Add the following** **definition for ‘gap association’ to TS 38.133, clause 9.1.1 from Rel-17 to improve readability of the spec:**  ***Gap association: the association between a configured measurement object and a configured concurrent measurement gap.*** |

## Open issues summary

### Sub-topic 1-1: definition of “gap association” and “gap association rule”

* Proposals
  + Option 1 (Nokia):
    - Add following definitions for “gap association” to TS 38.133 clause 9.1.1 from Rel-17 to improve readability of the spec:
      * Gap association: the association between a configured measurement object and a configured concurrent measurement gap.
* Recommended WF
  + Discuss the option

# Topic #2: LTE\_NR\_DC\_enh2-Core

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2510111**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_116/Docs/R4-2510111.zip) | MediaTek Inc. | **Observation 1: When TCI configuration “tci-ActivatedConfig” is used for SCell, it is only used for direct SCell activation.** **The agreed changes in CR** [**R4-2420200**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_113/Docs/R4-2420200.zip) **are for the case that tci-ActivatedConfig is configured at scell addition without direct activation, which conflicts with RAN2 spec.**  **Proposal 1: Remove scell activation requirements related to the case that tci-ActivatedConfig is configured at scell addition without direct activation.** |
| [**R4-2511157**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_116/Docs/R4-2511157.zip) | Nokia | **Proposal 1: Update the RAN4 PSCell activation delay requirement capturing the missing scenario.** |

## Open issues summary

### Sub-topic 2-1: usage of TCI-ActivatedConfig for SCell activation

* Proposals
  + Option 1 (MTK):
    - Remove scell activation requirements related to the case that tci-ActivatedConfig is configured at scell addition without direct activation.
* Recommended WF
  + Discuss the option

### Sub-topic 2-2: usage of TCI-ActivatedConfig for SCGactivation

* Proposals
  + Option 1 (Nokia):
    - Update the RAN4 PSCell activation delay requirement capturing the missing scenario.

|  |
| --- |
| If the UE is configured to perform *bfd-and-RLM* while the SCG is deactivated  - The TCI state is known if all the following conditions are met:  - During the period from the SCG configuration or reception of the RRC command to deactivate the PScell to the first transmission towards PSCell on PUCCH or PUSCH:  - UE has not detected beam failure  - The side condition Ês/Iot ≥ -3dB is fulfilled for the RSs configured for *bfd-and-RLM* for the PSCell being activated  - The SSB measured remains detectable according to the cell identification conditions specified in clause 9.2.  - Otherwise, the TCI state is unknown. |

* Recommended WF
  + Discuss the option