**3GPP TSG-RAN WG4 Meeting #111 R4-2410376**

**Fukuoka, Japan, May 20th – 24th, 2024**

**Agenda item:** 7.5.5

**Source:** MediaTek inc.

**Title:** WF on NR\_MG\_enh2\_part1

**Document for:** Approval

# Introduction

No notes.

# Topic #1: Core part CR handling (AI 7.5.1)

### Sub-topic 1-1: Draft CRs handling

* **Agreement**:
  + - Maintenance to be discussed in a CR directly.

# Topic #2: Case 1 (Pre-MG and concurrent MG) (AI 7.5.1)

### Sub-topic 2-1: Collision handling for dynamic collisions

**Issue 2-1-1: [Case 1] - [Scenario 1] Further clarification on the agreement from scenario 1?**

**Issue 2-1-2: [Case 1] - [Scenario 2] When the pre-configured MG deactivation procedure is overlapped with one of concurrent gap occasion during the dynamic collision (i.e. Pre-MG has higher priority than the MG)**

**Issue 2-1-3: [Case 1] - [Scenario 3] When the pre-configured MG activation procedure is overlapped with one of concurrent gap occasion where the MG has higher priority than the Pre-MG**

**Issue 2-1-4: [Case 1] - [Scenario 4] When one pre-configured MG deactivation procedure is overlapped with another pre-configured MG activation procedure during the dynamic collision**

* **Agreement:**
  + The above issues 2-1-1, 2-1-2, 2-1-3, and 2-1-4 are closed. The maintenance for core part to be discussed in CRs.

**Issue 2-1-5: [Case 1] - [New issue - dropping rule optimization] Whether to optimise the concurrent measurement gaps are collided when collided?**

* **Agreement**:
  + RAN4 not to consider optimizations of the collision handling for concurrent gaps in Rel-18.
  + This issue is closed.

**Issue 2-1-6: [Case 1] - [New issue - spec cleaning] This issue related to further cleaning in current spec writing [multiple options can be selected based on discussion]:**

* + **Agreement**:
    - * Maintenance to be discussed in a CR directly.

**Issue 2-1-7: [Case 1] - [New issue – Dynamic collision] What is the UE behaviour when the UE doesn’t support dynamic collision FG?**

Agreement from online session:

For UE not supporting dynamic collision, the MG will be drop if overlapped with Pre-MG, regardless whether Pre-MG (with higher priority) is activated or deactivated, including the case when the MG overlaps with the Pre-MG activation/deactivation procedure.

# Topic #3: Case 2 (NCSG and concurrent MG) (AI 7.5.1)

### Sub-topic 3-2: Rel-18 UE behavior for deactivated SCell measurements with NCSG

**Issue 3-2-1: [Case 2] When the UE is configured with Concurrent gaps with NCSG, what is the potential changes to UE behaviour for NCSG upon SCell activation (in Rel-18)**

Agreement from online session:

* For UE configured with one NCSG and one Type 1/2 MG: All deactivated SCells are measured within NCSG, regardless of the reported UE capabilities [and gap association].
  + Further details on the processing delay between NCSG and Type 1/2 MG can be further discussed.
* For UE configured with 2 NCSG, deactivated SCells are measured with NCSG
  + If the association is provided, deactivated SCells are measured with NCSG according to gap association.
  + If the association is not provided, UE is not expected to cause interruption outside the VIL due to measurement on any of the deactivated SCells, and the existing measurement delay requirement does not apply to this case.

# Topic #4: Performance Part 1 (Pre-MG/NCSG and concurrent MG) (AI 7.5.3)

### Sub-topic 4-2: Test cases for Case 1

**Issue 4-2-3: [Case 1] Test cases list for Case 1: whether to do further setting changes to the agreed TCs**

* + **Agreement**:
    - * Maintenance to be discussed in a CR directly.

### Sub-topic 4-3: Test cases for Case 2

**Issue 4-3-1: [Case 2] Test cases list for Case 2: Whether to support ‘Con-NCSG TC4’?**

* Agreement: Add Con-NCSG TC4

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Test case category** | **Test purpose** | **Volunteering companies** |
| Con-NCSG TC4 | Event triggered reporting test on deactivated SCell in **FR1** with concurrent gap and NCSG | ·Intra-frequency cell search/measurement delay for deactivated SCC is met for Cell2 in NCSG~~, and Inter-frequency cell search/measurement delay for Cell3 in MG~~  ·UE receives data in Cell1 meeting scheduling restriction requirements, andUE will not cause any interruption on Cell1 outside VIL windows. | Ericsson |

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