**3GPP TSG-RAN WG4 Meeting #112 R4-2414043**

**Maastricht, Netherlands, Aug 19 – Aug 23, 2024**

**Title:** WF on RRM requirements for XR\_Ph3

**Agenda Item:** 8.24.3

**Source:** Nokia

**Document for:** Approval

# Topic #1: Scenarios for XR enhancements

## Issue 1-1: Workscope

**< Agreement>**:

* As starting point, RAN4 to discuss the Tx/Rx in occasions of L3 measurement.
  + The progress in RAN1/2 should be taken into account.
* FFS whether/when to start the discussion of Tx/Rx in occasions of scheduling restriction due to L1 operation.
* RAN4 to discuss
  + The potential impact on measurement requirements due to measurement cancellation
  + The corresponding solution to address the impact if needed.

## Issue 1-2: Deployment scenarios

**<Way forward>:**

* Discuss if there are aspects related to deployment scenarios to be considered.

## Issue 1-3: Types of measurement gaps to consider

In this issue we discuss the types of measurement gaps to be considered in this WID. In order to help the discussion, we reuse the definition of Type-1 and Type-2 measurement gaps as agreed in Rel-18 NR\_MG-enh2:

|  |
| --- |
| * Type-1 MG: Gap(s) configured via GapConfig without suffix * Type-2 MG: Gap(s) configured via GapConfig-r17 without preConfigInd-r17 or ncsgInd-r17 * Rel-18 Concurrent Gap: gap with assigned priority which can be also NCSG or Pre-MG |

**<Way forward>: Please discuss the priorities for RAN4 to work based on the following table:**

|  |  |  |  |
| --- | --- | --- | --- |
| Cap types | First prio | Second prio | Don’t include |
| Type 1 | Nokia, MTK, QC, Vivo, ZTE, Apple, CMCC, HW, Ericsson, OPPO, CATT, IDC |  |  |
| Type 2 | QC, vivo, Apple, CMCC, HW, OPPO, CATT | Nokia | ZTE |
| NCSG | Apple, CMCC, HW, OPPO, MTK | QC, Nokia, CATT, IDC | vivo |
| MUSIM |  | HW | Vivo, Apple, Nokia, Ericsson, CATT |
| Positioning |  | QC, vivo, HW | ZTE, Apple, Nokia, Ericsson, CATT, IDC |
| Rel 18 concurrent gap | QC, Apple, CMCC, HW, CATT, MTK |  | Vivo, ZTE, Nokia, Ericsson |
| PreConfigured | Apple, QC, CATT, CMCC, HW, OPPO, MTK |  |  |

## Issue 1-4: Types of measurements without gaps to consider

**<Way forward>:**

* Discuss whether measurements without gaps are also considered and the scenarios where it is applicable

## Issue 1-5: Whether L1 measurements are considered for XR measurement skipping

**<Way forward>: Discuss considering the following options:**

* Option 1: XR measurement skipping does not include L1 measurements.
* Option 2: XR measurement skipping does include L1 measurements.

## Issue 1-6: Whether L1/L2 triggered mobility measurements are considered for XR measurement skipping

**<Way forward>:**

* FFS the L1/L2 triggered mobility measurement.

# Topic #2: Need/feasibility of UE assistance information

## Issue 2-1: General on UAI

**<Way forward>:**

* + Discuss if UAI is needed and which aspects to consider.

# Topic #3 Timeline for measurement skipping processing

## Issue 3-1: Timeline requirement for measurement skipping

**<Way forward>:**

* Discuss timeline for measurement skipping.

# Topic #4 RRM requirement impact of measurement skipping

## Issue 4-1: How measurement skipping impact is considered in RRM measurements

**<Way forward>:**

* Discuss how measurement skipping will impact RRM requirements

## Issue 4-2: Conditions for measurement skipping

**<Way forward>:**

* Further discuss if any conditions related to measurement skipping should be considered.