**3GPP TSG-RAN WG4 Meeting #116 R4-2512133**

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

**Agenda item:** 7.21.4

**Source:** Huawei, HiSilicon

**Title:** WF on RRM requirements for NR\_duplex\_evo

**Document for:** Approval

# Agreements

Topic #1: UE-to-UE CLI handling

### Sub-topic 1-1: General issues

#### Issue 1-1-1: Requirement applicability for basic UE operation

* Agreement
  + For UE not supporting simultaneous DL reception in 2 DL subbands, if RAN1 agrees such basic UE operation exists in maintenance phase, RAN4 will further the corresponding requirements in maintenance phase.

#### Issue 1-1-2: L1 CLI measurement in non-SBFD symbols

* Agreement (Monday online session)
  + Define requirements for L1 UE-to-UE CLI measurements based on valid symbol type.
* Agreement (Thursday online session)
  + Re-use NR-U approach for defining measurement period extension due to invalid symbol type.

### Sub-topic 1-2: L1-SRS-RSRP

#### Issue 1-2-1: Collision between Method #1 and Method #2

* Agreement (Tuesday AH session)
  + UE does not expect to be configured with L1-CLI-RSSI measurements resources within DL subband(s) and L1-SRS-RSRP measurement resources on the same symbol.
  + Note: this can be revised if RAN1 have different agreement for this Collision between Method#1 and Method#2.

### Sub-topic 1-3: L1-CLI-RSSI

#### Issue 1-3-1: Measurement period

* Agreement (Tuesday AH session)
  + Based on 1 sample if timeRestrictionForChannelMeasurement is configured;
  + Based on 3 samples if timeRestrictionForChannelMeasurement is not configured.

#### Issue 1-3-2: Measurement restriction

* Agreement (Thursday online session)
  + Measurement requirements do not apply for L1-CLI-RSSI when CLI resources and resources for L1/L3 RRM measurements overlap in time for FR1

Topic #2: SBFD operation impacts

### Sub-topic 2-1: RRM impacts of SBFD operation

#### Issue 2-1-1b: CSI-RS L1 measurement – puncturing in frequency domain

* Agreements (Monday online session)
  + For UE supporting simultaneous DL reception in 2 DL subbands,
    - For measurement period:
      * For UE indicating CSI processing time scaled by 2,
        + Add a lower bound of 8ms on top of existing measurement period, if the CSI-RS resource is across 2 DL subbands and UE indicates CSI processing time is scaled by 2.
      * For UE not indicating CSI processing time scaled by 2,
        + Lower bound is not needed and existing measurement period applies
    - Further discuss the measurement accuracy requirements in Perf part of the WI
      * For UE indicating CSI processing time scaled by 2
        + Option 1: existing accuracy requirements based on 48 RB for Case 3 apply.
        + Option 2: accuracy requirements based on 24 RB for Case 3 apply.
      * For UE not indicating CSI processing time scaled by 2
        + Option 1: accuracy requirements based on 24 RB for Case 3 apply.
  + For UE not supporting simultaneous DL reception in 2 DL subbands, if RAN1 agrees such basic UE operation exists in maintenance phase, RAN4 will further the corresponding requirements in maintenance phase.

#### Issue 2-1-1d: Lmax in NR-U approach

* Agreements (Thursday online session)
  + Not define Lmax values, and not define the applicability condition based on upper bound for measurement period.

#### Issue 2-1-2: Requirements for RACH

* Agreements
  + Discuss whether and how to update RACH requirements based on RAN2 spec in maintenance phase.

#### Issue 2-1-3: SCell activation

* Agreements (Monday online session)
  + The existing SCell activation delay requirement apply when activating a SBFD SCell. Further discuss whether any clarification is needed in the CR.
  + Note: the agreement can be revised if not aligned with RAN1 existing and future agreements.

#### Issue 2-1-4: Condition for SSB based measurement with basic UE operation

* Agreements
  + For UE not supporting simultaneous DL reception in 2 DL subbands, if RAN1 agrees such basic UE operation exists in maintenance phase, RAN4 will further the corresponding requirements in maintenance phase.

Potential issues for further discussion

# Topic #3: Performance part

### Sub-topic 3-1: Accuracy requirements

#### Issue 3-1-1: L1-SRS-RSRP – side condition on time offset

#### Issue 3-1-2: L1-SRS-RSRP – side condition on SRS BW

#### Issue 3-1-3: L1-SRS-RSRP – side condition on SRS Es/Iot

#### Issue 3-1-4: L1-SRS-RSRP – accuracy requirements

#### Issue 3-1-5: L1-CLI-RSSI – accuracy requirements

#### Issue 3-1-6: L1-RSRP and L1-SINR – accuracy requirements

### Sub-topic 3-2: Report mapping

#### Issue 3-2-1: Absolute report mapping

#### Issue 3-2-2: Differential report mapping

### Sub-topic 3-3: Test cases

#### Issue 3-3-1: General test setup

#### Issue 3-3-2: Test case list

#### Issue 3-3-3: Test case details and test purpose

#### Issue 3-3-4: Test case scenarios

#### Issue 3-3-5: Test applicablity