**3GPP TSG RAN WG1 #122bis R1-25nnnnn**

**Prague, Czech Republic, October 13th –17th, 2025**

**Source: Ad-Hoc Chair (AT&T)**

**Title: Session Notes of AI 9.14**

**Agenda Item: 9.14**

**Document for: Endorsement**

### 9.14 Others

**Proposal:**

* **Delete/remove the following Rel. 19 NR UE FG**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ~~67. TEI19 [5GB\_CASMuting]~~ | ~~67-7~~ | ~~5GB\_CAS Muting~~ | ~~Muting of always-on signals in 5G broadcast~~ |  | ~~Yes~~ | ~~n/a~~ | ~~UE continually detects CAS subframes which may be muted by NW~~ | ~~CAS Muting cannot be used~~ | ~~Per band~~ | ~~No~~ | ~~No~~ | ~~No~~ | ~~For a MBMS-dedicated cell, there is no RAN4 impact from the above TEI proposal.~~ |

* **Introduce the following Rel. 19 LTE UE FG**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. TEI19 [5GB\_CASMuting] | 4-1 | 5GB\_CAS Muting | Muting of always-on signals in 5G broadcast |  | Yes | n/a | UE continually detects CAS subframes which may be muted by NW | Per band | No | No | For a MBMS-dedicated cell, there is no RAN4 impact from the above TEI proposal. | Optional with capability signaling |

**Proposal: Adopt the following changes highlighted in chromatic fonts, while keeping the yellow highlighting, if any, as shown**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 67. TEI19 [Simul\_SRSCS] | 67-4 | Support of simultaneous SRS carrier switching [Simul\_SRSCS] | 1.- Support simultaneous SRS carrier switches. Two SRS carrier switches are considered to be simultaneous if the SRS transmission (including RF retuning time) in both CCs overlap in time | 2-56 | Yes | N/A | Simultaneous SRS CS across multiple CC is not supported | Per band pair per band combination | N/A | N/A | N/A | For each target band, the UE can indicate with which other target bands in the band combination can SRS carrier switching be simultaneously triggered | Optional with capability signaling |

**Proposal: Adopt the following changes highlighted in chromatic fonts, while keeping the yellow highlighting, if any, as shown**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 67. TEI19 [Pos\_SRSHop] | 67-2b | UL Time Window and transmission of SRS for positioning with Tx Frequency hopping within the window for non-RedCap UEs [Pos\_SRSHop] | Support of UL Time Window and transmission of SRS for positioning with Tx Frequency hopping within the window | 67-2 | ~~No~~ Yes | N.A. | UE does not support the UL time window for SRS for positioning with Tx frequency hopping | Per band | N.A. | N.A. | N.A. |  | Optional with capability signaling |

**Proposal: Introduce the following Rel. 19 UE FGs (yellow highlighting, if any, shows text that’s not yet agreed)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 67. TEI19 [EarlyCSI\_L3HO] | 67-11 | CSI-RS and CSI-IM measurement and CSI reporting for a target cell of reconfigurationWithSync based on periodic CSI-RS resource | 1. Support of CSI-RS and CSI-IM measurement and CSI reporting for a target cell of reconfigurationWithSync based on periodic CSI-RS(s)2. Maximum number of CSI-RS resources for CMR associated with CSI report configuration for a target cell 3. Max number of ports of CSI-RS resource(s) associated with a CSI report configuration for CSI reporting for a target cell 4. Maximum number of ports in one NZP CSI-RS resource5. Max rank for CSI reporting for a target cell6. Maximum number of CSI-IM resources for interference measurement associated with CSI report configuration for a target cell |  | Yes | n/a | Periodic CSI-RS and CSI-IM measurement and CSI reporting for a target cell of reconfigurationWithSync is not supported  | Per band | n/a | n/a | n/a | Component 2 candidate values: {1,2,3,4,5,6,7,8}Component 3 candidate values: {1,2,4,8,12,16,24,32,48,64,128}Component 4 candidate values: {1, 2, 4, 8, 12, 16, 24, 32}Component 5 candidate values: {1,2,3,4,5,6,7,8}Component 6 candidate values: {1,2,3,4,5,6,7,8} | Optional with capability signaling |
| 67. TEI19 [EarlyCSI\_L3HO] | 67-12 | CSI-RS and CSI-IM measurement and CSI reporting for a target cell of reconfigurationWithSync based on semi-persistent CSI-RS resource | 1. Support of CSI-RS and CSI-IM measurement and CSI reporting for a target cell of reconfigurationWithSync based on semi-persistent p CSI-RS(s)2. Maximum number of CSI-RS resources for CMR associated with CSI report configuration for a target cell 3. Max number of ports of CSI-RS resource(s) associated with a CSI report configuration for CSI reporting for a target cell 4. Maximum number of ports in one NZP CSI-RS resource5. Max rank for CSI reporting for a target cell 6. Maximum number of CSI-IM resources for interference measurement associated with CSI report configuration for a target cell |  | Yes | n/a | Semi-persistent CSI-RS and CSI-IM measurement and CSI reporting for a target cell of reconfigurationWithSync is not supported  | Per band | n/a | n/a | n/a | Component 2 candidate values: {1,2,3,4,5,6,7,8}Component 3 candidate values: {1,2,4,8,12,16,24,32,48,64,128}Component 4 candidate values: {1, 2, 4, 8, 12, 16, 24, 32}Component 5 candidate values: {1,2,3,4,5,6,7,8}Component 6 candidate values: {1,2,3,4,5,6,7,8} | Optional with capability signaling |
| 67. TEI19 [EarlyCSI\_L3HO] | 67-13 | CSI-RS-RS measurement and CSI reporting without CSI-IM reception | 1. Support of CSI-RS measurement and CSI reporting for a target cell of reconfigurationWithSync without CSI-IM resource configuration | 67-11 or 67-12 | Yes | n/a | CSI-RS-RS measurement and CSI reporting without CSI-IM reception is not supported | Per band | n/a | n/a | n/a |  | Optional with capability signaling |

R1-2507079 PDCCH repetition TN features Nokia

R1-2507195 UE features for positioning SRS frequency hopping for non-RedCap UE ZTE Corporation, Sanechips

R1-2507274 UE features for Other topics Samsung

R1-2507477 UE features for early CSI acquisition for L3 handover Ericsson

R1-2507743 Summary of UE features for Rel-19 TEI and other relevant issues Moderator (AT&T)

R1-2507936 UE features for common PDCCH repetiton (Rel-19 NTN) for TN Huawei, HiSilicon