|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Features** | **Index** | **Feature group** | **Components** | **Prerequisite feature groups** | **Need for the gNB to know if the feature is supported** | **Applicable to the capability signalling exchange between UEs (V2X WI only)”.** | **Consequence if the feature is not supported by the UE** | **Type****(the ‘type’ definition from UE features should be based on the granularity of 1) Per UE or 2) Per Band or 3) Per BC or 4) Per FS or 5) Per FSPC)** | **Need of FDD/TDD differentiation** | **Need of FR1/FR2 differentiation** | **Capability interpretation for mixture of FDD/TDD and/or FR1/FR2** | **Note** | **Mandatory/Optional** |
| 52. NR\_Mob\_Ph4 | 52-1 | Number of CSI-RS resources for L1-RSRP measurement within a slot | * The max number of CSI-RS resources for L1-RSRP measurement that UE can measure within a slot across candidate cells for L1-RSRP measurement
 | 63-1 | Yes | No | There is no limitation on the number of CSI-RS resources for L1 measurement within a slot. | Per BC | No | No | N/A | Candidate value: {1,2,3,4,5,6,7,8,16,32, 48,64}* Note: It is also counted in FG 2-24
 | Optional with capability signaling |
| 52-2 | Number of total CSI-RS resources to be measured | * The max number of total CSI-RS resources of serving cells and candidate cells across all CCs for L1 measurement. Both LTM candidate cell(s) and serving cells for CSI-RS based L1-RSRP measurement are counted, regardless of whether CSI-RS based L1-RSRP measurement on serving cell is configured in LTM-CSI-ResourceConfig-r18 or not.
 | 63-1 | Yes | No | There is no limitation on the total number of CSI-RS resources of serving cells and neighbouring cells across all CCs for L1 measurement. | Per BC | No | No | N/A | Candidate values:{2,4,8,12,16,32,64}* Note: the value should be not smaller than UE capability of beamManagementSSB-CSI-RS (Component 2 of 2-24)
 | Optional with capability signaling |
| 52-3 | Skip SSB based L1-RSRP measurement for candidate cell CSI-RS-based L1-RSRP measurement | 1. Indicates support for skipping SSB-based L1-RSRP during neighboring cell CSI-RS-based L1-RSRP measurement.
2. Indicates support for skipping SSB-based L1-RSRP during both neighboring cell and serving cell CSI-RS-based L1-RSRP measurement.
 | 63-1 | Yes | N/A | **Consequence** | Per UE | no | FR2-1 only | N/A |  | Optional with capability signalling |

**Consequence**

**For UE doesn’t support neither 1) nor 2):** CSI-RS resources from neighbour cell shall be Type-D QCL’ed with the associated SSB for L1 measurement

**For UE support 1):** CSI-RS resources from neighbour cell do not need to be Type-D QCL’ed with the associated SSB for L1 measurement, but shall be Type-D QCL’ed with the associated SSB for L3 measurement. CSI-RS resources from serving cell shall be Type-D QCL’ed with SSB for L1-RSRP measurement, or another CSI-RS in resource set configured with repetition ON.

**For UE support 2):** CSI-RS resources from neighbour cell do not need to be Type-D QCL’ed with the associated SSB for L1 measurement, but shall be Type-D QCL’ed with the associated SSB for L3 measurement. CSI-RS resources from serving cell do not need to be Type-D QCL’ed with SSB for L1-RSRP measurement, or another CSI-RS in resource set configured with repetition ON.