**3GPP TSG RAN WG2 Meeting #131 R2-250xxxx**

Bengaluru, India, Aug 25th – 29th, 2025

Agenda Item: 8.0.1

Source: Xiaomi

Title: Comment for [POST131][005][UE caps] UE capability CRs (Xiaomi)

Document for: Discussion and Decision

# Introduction

* [POST131][005][UE caps] UE capability CRs (Xiaomi)

 Intended outcome: Agree to Mega CRs, 38.331 and 38.306

 Deadline: CR capturing RAN1/4 feature list – Thursday, Sept. 4

 CR merging all RAN2 endorsed CRs as well - Tuesday, Sept. 9

Companies providing input to this email discussion are requested to leave contact information below.

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email Address** |
| **OPPO** | **Qianxi Lu** | **qianxi.lu@oppo.com** |
| **Nokia** | **Andrew Lappalainen** | **andrew.lappalainen@nokia.com** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Comment

Companies are invited to provide comments **if there’s a change that is not agreeable**. Other comments are welcomed.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Comment Index** | **Capability IE/FG** | **Specification****(306/331)** | **Comment** | **Proposed Change** |
| OPPO001 | 46-1/2/3 | 331,306 | They are now implemented as MRDC Parameter, MRDC-Parameters-v1900While based on our R4 colleagues, MPR reduction were discussed for CA case, rather than MRDC. | Avoid implementation those features as MRDC parameters (in both 331 and 306) |
| OPPO002 | 46-4/5 | 331,306 | Based on our R4, there is no case where UE report both features, since the support of 46-5 already includes the support of 46-4 | Suggest implement 46-4/5 as a same capability, with two ENUMERATED values pointing to 46-4 and 46-5. |
| OPPO003 | 49-1 | 331,306 | Currently this feature is reported via UE-MRDC-Capability only, but looking at the values in this featureClearly, the first/third/fourth case is related to NR-SA and NR-DC that should be implemented via UE-NR-Capability. | Implement the values of this feature separately via UE-MRDC-Capability and UE-NR-Capability. |
| N0001 | R1 59-1-5 | 306 | Prerequisite 59-1-1 is incorrectly written as uei-BR-Event2ModeA-r19. This should be uei-ModeA-Event2-r19 | Change prerequisite to ‘uei-ModeA-Event2-r19’ |
| N0002 | R1 59-2-1-1d, 59-2-1-2a, 59-2-1-3a, 59-2-1-4a, 59-2-1-5a | 331 | In all these capabilities for 48 Tx port codebooks, the parameter *maxNumberResource-r19* is encoded as INT(2..3), but a bit could be saved by encoding them as ENUMERATED {n2,n3}.Note that in the corresponding 64 Tx port codebook capabilities maxNumberResource-r19 is already encoded as ENUMERATED {n2,n4}.  | Change encoding for *maxNumberResource-r19* from INT (2..3) to ENUMERATED {n2,n3}. |
| N0003 | R1 59-2-1-6 | 306/331 | This feature was not captured in the CR. All prerequisites (“One or more of {59-2-1-1,1c, 2, 3, 4, 5}”) are already implemented and there are no details left FFS. | Add capability for R1 59-2-1-6 “CSI-RS resource time domain restriction for Type-I and Type II codebook enhancement for up to 128 ports”  |
| N0004 | R1 59-2-3-4 | 306/331 | Component 4 (Supported maximum slot duration for NTRP P/SP CSI-RS occasions being confined in) is missing | Add component 4 under the per-band and per-BC capabilities *cjtc-PO-ReportSubbandPerBC-r19 / cjtc-PO-ReportSubband-r19*maxSlotDuration-r19 INTEGER (1..2)*maxSlotDuration-r19* indicates the supported maximum slot duration for NTRP P/SP CSI-RS occasions being confined in. |
| N0005 | R1 59-2-3-5a | 306 | According to the feature list, *for this FG*, OCPU= **2**\*X\*NTRP; however, this is captured as OCPU= X\*NTRP in the parameter description for *valueX-r19*. | Under description for *cjtc-DdFO-ReportProcessing-r19*, *cjtc-DdFO-ReportProcessingPerBC-r19* parameter *valueX-r19* change OCPU= X\*NTRP to OCPU= **2**\*X\*NTRP. |
| N0006 | R1 59-2-3-6c | 331 | This capability (i.e. *cjt-QCL-PDSCH-SchemeE-r19*) is mislabeled as 59-2-3-6b in 38.331. | Change label in 331 to 59-2-3-6c. |
| N0007 | R1 59-2-3-7 | 306 | Prerequisite of per-band capability *linked-CJTC-Dd-eType2CJT-Joint-r19* is listed as *eType2CJTperBC-r18*. Should it be *eType2CJT-r18*? | Double check whether prerequisite should be changed to per-band capability *eType2CJT-r18* |
| N0008 | R1 59-2-3-7a | 306 | Prerequisite of per-band capability *linked-CJTC-Dd-eType2CJT-Separate-r19* is listed as *eType2CJTperBC-r18*. Should it be *eType2CJT-r18*? | Double check whether prerequisite should be changed to per-band capability *eType2CJT-r18* |
| N0009 | R1 59-2-3-10 | 331 | scs960kHz is mislabeled as scs120kHz in the per band and per BC capabilities | Change second instance of *scs120kHz-r19* to *scs960kHz-r19* under *timelineRelax-CJTC-Dd-eType2CJT-r19* and *timelineRelax-CJTC-Dd-eType2CJT-PerBC-r19*  |
| N0010 | R1 59-3-2 | 306 | In the description for this capability in 306, the parameters have an -r18 suffix instead of -r19 suffix, i.e. *maxNumberPUSCH-MIMO-Layer-r18* and *maxNumberSRS-Resource-r18* | Change suffix of the parameters to “-r19”. |
| N0011 | R1 59-3-4a | 331 | This capability (i.e. *mTRP-PUSCH-RepetitionTypeA-3Port-r19*) is mislabeled as 59-3-4 in 38.331. | Change label in 331 to 59-3-4. |
| N0012 | R1 59-3-4d | 306, 331 | This feature was not captured in the CR. The prerequisite 59-4-4b is already implemented and there are no details left FFS. | Add capability for R1 59-3-4d “PDCCH ordered sent by one TRP triggers RACH procedure towards a different TRP based on CRFA for inter-cell without CORESETPoolIndex” |
| N0013 | R1 61-4a | 306 | The capability for *od-SSB-AlwaysOn-MAC-CE-Diff-r19* is defined based on the support for explicit or joint explicit/implicit deactivation mechanism, but the description in 306 refers to the time relations TimeC1/TimeC2, which are not relevant to this capability. | Update description in 306 to refer to OD-SSB deactivation mechanisms based on explicit / implicit indication and delete part about time relations based on TimeC1, TimeC2. |
| N0014 | R1 63-2 | 306 | The NOTE on indicating at least one non-zero value is confusing; besides, it seems like this should be a normative requirement instead of a note. | Delete NOTE and add following clarification to capability description:“UE supporting this feature must support a non-zero value for at least one of *supportedMaxAperiodic-LTM-CSI-ReportConfig-r19* and *supportedMaxSemiPersistent-LTM-CSI-ReportConfig-r19*.” |
| N0015 | R4 46-4 | 306 | In the description and NOTE for *mpr-SingleCC-SingleValue-r19*, the abbreviation “NRB” should be written as “NRB” (same as it is for *mpr-SingleCC-MultipleValue-r19*) | Change “NRB” to “NRB” in the description and NOTE of *mpr-SingleCC-SingleValue-r19* |
| N0016 | R4 49-1 | 306 | This capability (i.e. *threeCarrierMeasWithoutGap-r19*) has not been defined in 38.306 even though it is in 331. | Add definition for *threeCarrierMeasWithoutGap-r19* to 38.306 CR. |
| N0017 | R4 50-2 | 306 | The formula for the processing time Tmin is incomplete in the capability description of *od-SSB-AdditionalProcessingTime*. Or maybe the intention is not to write it fully and the description will just refer to the RAN4 specs? | Double check whether formula for Tmin needs to be updated to align with the feature list (i.e. $T\_{min}=3N\_{slot}^{subframe,μ}$) or whether the description will just refer to the RAN4 specs. |