**3GPP TSG-WG RAN4 Meeting #97e *Revised* R4-2014501**

**Electronic Meeting, 2 - 13 Nov, 2020**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.307** | **CR** |  | **rev** | **1** | **Current version:** | **15.6.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Draft CR for TS 38.307 on UE demodulation performance requirements (Rel-15) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Telecom | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_perf\_enh-Perf | | | | |  | ***Date:*** | | | 2020-10-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-15 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) Rel-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | For Rel-16 NR\_perf\_enh-Perf WI, the following agreements were reached in RAN4#94e in R4-2002390.   * CA normal demodulation requirements   + The requirements for those CA configurations that are defined as release independent from release 15 in TS 38.307 can be release independent from release 15 * *PMI reporting requirements for single panel Type I codebook*   + *The requirements for 16 and 32 Tx ports can be release independent from release 15* * *Demodulation requirements for TDD LTE - NR coexistence*   + *Release independent from release 15 for the TDD bands supporting spectrum sharing in Rel-15*   The features/requirements in the last two bullets are not included in Rel-15 of 38.307. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add new release independent features/requirements inclcuding: UE PMI reporting requirements, and PDSCH demodulation requirements for LTE CRS rate matching. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The previous RAN4 agreements are not followed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.3, New section 5.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

*< Start of first change >*

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

BW Bandwidth

CA Carrier Aggregation

CC Component carrier

DL Downlink

EN-DC Dual connectivity between E-UTRA and NR

FDD Frequency Division Duplex

FR1 Frequency range 1

FR2 Frequency range 2

NR New radio

PMI Precoding Matrix Indicator

REL Release

SDL Supplementary downlink

SUL Supplementary uplink

TDD Time Division Duplex

UE User Equipment

UL Uplink

*< End of first change >*

*< Start of second change >*

## 5.5 Other release independent requirements for NR frequency range 1

This clause covers requirements for a Rel-15 UE coming from all other release independent requirements with the corresponding features introduced in Rel-15.

Table 5.5-1: Release independent requirements with the corresponding features introduced in Rel-15

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Release  independent from | Requirements to be fulfilled  (see 36.307 of the REL when the feature was introduced) | Further information |
| Precoding matrix indicator (PMI) reporting requirements for 16TX and 32TX TypeI-SinglePanel Codebook | Rel-15 | Table D.1-1 | Rel-16 NR\_perf\_enh-Perf WI introduced band independent PMI reporting requirements for 16TX and 32TX TypeI-SinglePanel Codebook. |
| PDSCH demoulation requirements with LTE CRS rate matching for TDD band | Rel-15 | Table E.1-1 | Rel-16 NR\_perf\_enh-Perf WI introduced band independent PDSCH demoulation requirements with LTE CRS rate mataching for TDD band. |

*< End of second change >*