**3GPP TSG-RAN WG4 Meeting #98-e *R4-2103845***

**Electronic Meeting, Jan. 25th – Feb. 5th, 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.101-4** | **CR** | **0172** | **rev** | **-** | **Current version:** | **16.3.0** |  |
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| *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:***  | CR: Updates to test applicability rule for EN-DC power imbalance |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_perf\_enh-Perf  |  | ***Date:*** | 2021-2-1 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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 canbe 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | * The agreed test applicability rules for EN-DC power imbalance are captured in the specification with table format in Table 9.1.1-3 that implicitly reflects the corresponding test applicability rules, but it is hard to understand the specific logics applied, also people may need to check the core specification to understand the corresponding UE capability, it is better to add some clarifications to easy the understanding without any essential changes to the original agreed test applicability rules.
* Same test applicability rules can be applied for UE that does not indicate “*intraBandENDC-Support*” or indicates “both” for “*intraBandENDC-Support*” field.
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| ***Summary of change:*** | * Added several notes in Table 9.1.1-3 for the specific UE capability meaning;
* Merged Row 3 “UE does not indicate “*intraBandENDC-Support*””and Row 4 “UE indicates “both” in “*intraBandENDC-Support*”.
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| ***Consequences if not approved:*** | It is hard for specificaiton reader to understand the logic behind the test applicability rules defined in Table 9.1.1-3. |
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| ***Clauses affected:*** | 9.1.1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **x** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **x** |  |  Test specifications | TS 38.521-4  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

# 9 Demodulation performance requirements for interworking

## 9.1 General

This clause covers the UE demodulation performance requirements for EN-DC, NE-DC, inter-band NR-DC between FR1 and FR2, and inter-band NR CA between FR1 and FR2.

### 9.1.1 Applicability of requirements

The following applicability rules are specified for demodulation performance requirements for interworking:

- For UEs supporting both SA and NSA,

<Unchanged sections skipped>

Table 9.1.1-3: Requirements applicability for UE supporting FR1 intra-band and inter-band EN-DC

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| --- | --- | --- | --- |
|  | Inter-band scenarios are not supported  | UE indicates “interBandContiguousMRDC” (Note 1, Note 2) | UE does not indicate “interBandContiguousMRDC” (Note 1, Note 3) |
| Intra-band scenarios are not supported | N/A | Clause 9.5B.1.1 is executed for inter-band EN-DC scenarios | Clause 9.5B.1.2 is executed for inter-band EN-DC scenarios |
| UE does not indicate “intraBandENDC-Support” or UE indicates “both” in “intraBandENDC-Support” (Note 4) | Clause 9.5B.1.1 is only executed for intra-band EN-DC scenarios | Clause 9.5B.1.1 is executed for both intra-band and inter-band EN-DC scenarios | Clause 9.5B.1.1 is only executed for intra-band EN-DC scenarios |
|  |  |  |  |
| UE indicates “non-contiguous” in “intraBandENDC-Support” (Note 5) | Clause 9.5B.1.2 is only executed for intra-band EN-DC scenarios | Clause 9.5B.1.1 is executed for inter-band EN-DC scenarios | Clause 9.5B.1.2 is executed for both intra-band and inter-band EN-DC scenarios |
| Note 1: Requirements are applicable to intra-band scenarios and only inter-band scenarios from Table 5.5B.4.1-1 of TS 38.101-3 [8] for which Note 4 is applied.Note 2: TBD.Note 3: UE supports intra-band non-contiguous EN-DC requirements for supported inter-band EN-DC combinations.Note 4: UE supports intra-band contiguous EN-DC, or both intra-band contiguous and non-contiguous EN-DC for supported intra-band EN-DC combinations.Note 5: UE supports only intra-band non-contiguous EN-DC for supported intra-band EN-DC combinations. |

<End of changes>