**3GPP TSG-RAN4 Meeting # 103-e *R4-2209477***

 **Electronic Me**e**ting, 9th – 20th May 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **36.307** | **CR** | **4465** | **rev** | - | **Current version:** | **16.4.0** |  |
|  |
| *For* [***HELP***](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 |  | Radio Access Network |  | Core Network |  |

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| ***Title:***  | CR on adding B48 for M1/M2/NB1/NB2  |
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| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | LTE\_bands\_R17\_M1\_M2\_NB1\_NB2 |  | ***Date:*** | 2022-5-24 |
|  |  |  |  |  |
| ***Category:*** | A |  | ***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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | UE cat. M1 was introduced by REL-13.In REL-17, requirements for additional bands have to be added UE category M1 in a REL-independent way starting from REL-13 |
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| ***Summary of change:*** | Pointer to the requriement in REL 17 were set in 36.307 REL-13 for band 48 for M1. Adding also endorsed CR R4-2209481 and R4-2209484 |
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| ***Consequences if not approved:*** | then REL-17 requirements do not apply for the indicated bands and UE categories in REL-13. |
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| ***Clauses affected:*** | 3A.3 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ... |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

## < start of changes >

## 3A.3 Additional operating bands and/or CA configurations for specific features

For a specific feature introduced in an earlier release, it may be decided in a later release to apply this specific feature in a release independent way for additional operating bands and/or CA configurations. For a Rel-16 UE corresponding requirements are then introduced via this clause.

Table 3A.3-1: Operating bands for specific features

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| Feature | Releaseindependent from | Requirements to be fulfilled(see 36.307 of the REL when the feature was introduced) | Further information |
| Operating bands for UE category 0 | Rel-12 | Table B.2.9-1, Table B.3.5-1, Table B.4.10-1 | Rel-14 WI LC\_MTC\_LTE\_cat0\_B25\_B26-Core introduced RF, RRM, demodulation and CSI requirements for bands 25 and 26, see Table B.2.9-1, Table B.3.5-1, Table B.4.10-1 |
| Operating bands for UE category M1 | Rel-13 | Table B.2.10-1, Table B.3.6-1, Table B.4.11-1 | Rel-14 WI LTE\_MTCe2\_L1\_cat1\_B25\_B40-Core introduced RF, RRM, demodulation and CSI requirements for bands 25 and 40, see Table B.2.10-1, Table B.3.6-1, Table B.4.11-1.Rel-15 WI LTE\_bands\_R15\_M1\_NB1-Core introduced RF, RRM, demodulation and CSI requirements for bands 14 and 71, see Table B.2.10-1, Table B.3.6-1, Table B.4.11-1.Rel-17 WI LTE\_bands\_R17\_M1\_M2\_NB1\_NB2 introduced RF, RRM, demodulation for band 24 and band 48, see Table B.2.10-1, Table B.3.6-1, Table B.4.11-1. |
| Operating bands for HD-FDD UE category M1, Power class 2 | Rel-13 | Table B.2.10-1, Table B.3.6-1, Table B.4.11-1 | Rel-16 WI LTE\_PC2\_B31\_B72 introduced power class 2 feature for bands 31 and 72. |
| Operating bands for UE category M2 | Rel-14 | Table B.2.11-1, Table B.3.6-1, Table B.4.11-1 | Rel-15 WI LTE\_bands\_R15\_M2\_NB2-Core introduced RF and RRM requirements for bands 14 and 71, see Table B.2.11-1, Table B.4.11-1.Rel-17 WI LTE\_bands\_R17\_M1\_M2\_NB1\_NB2 introduced RF, RRM, demodulation for band 24 and band 48, see Table B.2.11-1, Table B.3.6-1, Table B.4.11-1. |
| Operating bands for HD-FDD UE category M2, Power class 2 | Rel-14 | Table B.2.11-1, Table B.4.11-1 | Rel-16 WI LTE\_PC2\_B31\_B72 introduced power class 2 feature for bands 31 and 72. |
| Operating bands for (FDD) UE category NB1 | Rel-13 | Table B.2.8-1, Table B.3.7-1, Table B.4.9-1 | Rel-14 WI NB\_IOT\_R14\_bands introduced RF, RRM and demodulation requirements for bands 11, 21, 25, 31, 70, see Table B.2.8-1, Table B.3.7-1, Table B.4.9-1.Rel-15 WI LTE\_bands\_R15\_M1\_NB1-Core introduced RF, RRM and demodulation for bands 4, 14 and 71 see Table B.2.8-1, Table B.3.7-1, Table B.4.9-1.Rel-16 WI LTE\_bands\_R16\_M1\_NB1 introduced RF, RRM, demodulation for band 65, see Table B.2.8-1, Table B.3.7-1, Table B.4.9-1.Rel-17 WI LTE\_bands\_R17\_M1\_M2\_NB1\_NB2 introduced RF, RRM, demodulation for band 24, see Table B.2.8-1, Table B.3.7-1, Table B.4.9-1. |
| Operating bands (FDD) for UE category NB2 | Rel-14 | Table B.2.12-1, Table 3.7-1, Table B.4.9-1 | Rel-15 WI LTE\_bands\_R15\_M2\_NB2-Core introduced RF, RRM and demodulation requirements for bands 4, 14 and 71, see Table B.2.12-1, Table 3.7-1, Table B.4.9-1.Rel-16 WI LTE\_bands\_R16\_M2\_NB2 introduced RF, RRM, demodulation for band 65 , see Table B.2.12-1, Table B.3.7-1, Table B.4.9-1.Rel-17 WI LTE\_bands\_R17\_M1\_M2\_NB1\_NB2 introduced RF, RRM, demodulation for band 24, see Table B.2.8-1, Table B.3.7-1, Table B.4.9-1. |
| Operating bands (TDD) for UE category NB1 and NB2 | Rel-15 | Table B.2.12-1, Table 3.7-1, Table B.4.9-1 | Rel-16 WI LTE\_bands\_R16\_M1\_NB1 and Rel-16 WI LTE\_bands\_R16\_M2\_NB2 introduced RF, RRM, demodulation for band 42 and band 43, see Table B.2.12-1, Table B.3.7-1, Table B.4.9-1. Rel-17 WI LTE\_bands\_R17\_M1\_M2\_NB1\_NB2 introduced RF, RRM, demodulation for band 48, see Table B.2.12-1, Table B.3.7-1, Table B.4.9-1. |
| Operating bands for UE category 1bis | Rel-13 | Table B.2.15-1, Table B.3.8-1, Table B.4.14-1 | Rel-16 RF, RRM, demodulation and CSI requirements for band 34 and band 40, see Table B.2.15-1, Table B.3.8-1, Table B.4.14-1. |

Table 3A.3-2: CA configurations for specific features

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| Feature | Releaseindependent from | Requirements to be fulfilled(see 36.307 of the REL when the feature was introduced) | Further information |
| Operating bands for V2X communication with con-current operation | Rel-14 | Table B.2.13-1, Table B.4.12-1 | Rel-15 WI V2X new band combinations (V2X\_5A-47A, V2X\_20A-47A, V2X\_34A-47A, V2X\_28A-47A, V2X\_71A-47A) introduced and should be satisfied for the RF and RRM requirements in Table B.2.13-1, Table B.4.12-1 |
| Operating band for V2X communication with multi-carrier at Band 47 | Rel-14 | Table B.2.13-1, Table B.4.12-1 | In Rel-15 WI for eV2X, introduce intra-band multi-carrier V2X\_47C and V2X\_47C1 and should be satisfied for the RF and RRM requirements in Table B.2.13-1, Table B.4.12-1 |

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