**3GPP TSG-RAN WG1 Meeting #107-e *R1-211xxxx***

**E-Meeting, Novermber 11th – 19th, 2021**

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| *CR-Form-v12.1* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **38.212** | **CR** | **XXX** | **rev** | **-** | **Current version:** | **16.7.0** |  |
|  |
| *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 | **X** | Core Network |  |

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|  |
| ***Title:***  | Changes of channel access types tables in TS 38.212 |
|  |  |
| ***Source to WG:*** | Moderator(Huawei), Ericsson |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_unlic-Core |  | ***Date:*** | 2021-11-17 |
|  |  |  |  |  |
| ***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 e?planations 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)* |
|  |  |
| ***Reason for change:*** | 1. The Minstry of Industry and Information Technology (MIIT) in China has already published the final regulatory rules for operating in the 2.4 GHz bands and the 5 GHz bands. Some requirements for FEB device operating in 5 GHz band in China are different from ETSI BRAN regulations in EN 301 893. The channel access procedures in 3GPP specification follow ETSI BRAN regulations based on sensing slot duration of 9us. For operation in China, at least the sensing slot duration of 9us for semi-static channel access can not meet the requirement of MIIT regulations (CCA time before transmission shall be no less than 16 μ).
2. Some reference subclauses for the channel access type coloumn in the RRC configurable tables should be corrected
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|  |  |
| ***Summary of change:*** | 1. “9us” is deleted in Table 7.3.1.1.1-4Ato align the changes in section 4.3 in TS37.213
2. Corrected reference subclause numbers for chanel access type ‘Type2B-ULChannelAccess’ in Table 7.3.1.1.2-35 and Table 7.3.1.2.2-6
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| ***T*** |  |
| ***Consequences if not approved:*** | 1. Requirement of 16us sensing duration for semi-static channel access procedure is excluded in TS 38.212.
2. TS 38.212 is published with typos
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|  |  |
| ***Clauses affected:*** | 7.3.1.1.1, 7.3.1.1.2, 7.3.1.2.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  |  TS37.213 |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

##### 7.3.1.1.1 Format 0\_0

**<Unchanged parts omitted>**

**Table 7.3.1.1.1-4A: Channel access type & CP extension if *ChannelAccessMode-r16* = "*semistatic*" is provided**

|  |  |  |
| --- | --- | --- |
| **Bit field mapped to index** | **Channel Access Type**  | **The CP extension T\_"ext" index defined in Clause 5.3.1 of [4, TS 38.211]** |
| 0 | No sensing as defined in Clause 4.3 in TS 37.213 | 0 |
| 1 | No sensing as defined in Clause 4.3 in TS 37.213 | 2 |
| 2 | Sensing within a 25us interval as defined in Clause 4.3 in TS 37.213 | 0 |
| 3 | - | - |

< Unchanged parts are omitted >

7.3.1.1.2 Format 0\_1

< Unchanged parts are omitted >

**Table** **7.3.1.1.2-35: Allowed entries for DCI format 0\_1, configured by higher layer parameter *ul-AccessConfigListDCI-0-1***

|  |  |  |  |
| --- | --- | --- | --- |
| **Entry index** | **Channel Access Type**  | **The CP extension T\_"ext" index defined in Clause 5.3.1 of [4, 38.211]** | **CAPC** |
| 0 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 0 | 1 |
| 1 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 0 | 2 |
| 2 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 0 | 3 |
| 3 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 0 | 4 |
| 4 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 2 | 1 |
| 5 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 2 | 2 |
| 6 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 2 | 3 |
| 7 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 2 | 4 |
| 8 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 0 | 1 |
| 9 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 0 | 2 |
| 10 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 0 | 3 |
| 11 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 0 | 4 |
| 12 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 2 | 1 |
| 13 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 2 | 2 |
| 14 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 2 | 3 |
| 15 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 2 | 4 |
| 16 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 0 | 1 |
| 17 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 0 | 2 |
| 18 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 0 | 3 |
| 19 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 0 | 4 |
| 20 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 1 | 1 |
| 21 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 1 | 2 |
| 22 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 1 | 3 |
| 23 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 1 | 4 |
| 24 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 3 | 1 |
| 25 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 3 | 2 |
| 26 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 3 | 3 |
| 27 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 3 | 4 |
| 28 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 0 | 1 |
| 29 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 0 | 2 |
| 30 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 0 | 3 |
| 31 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 0 | 4 |
| 32 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 1 | 1 |
| 33 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 1 | 2 |
| 34 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 1 | 3 |
| 35 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 1 | 4 |
| 36 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 2 | 1 |
| 37 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 2 | 2 |
| 38 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 2 | 3 |
| 39 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 2 | 4 |
| 40 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 3 | 1 |
| 41 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 3 | 2 |
| 42 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 3 | 3 |
| 43 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 3 | 4 |

< Unchanged parts are omitted >

7.3.1.2.2 Format 1\_1

< Unchanged parts are omitted >

**Table 7.3.1.2.2-6: Allowed entries for DCI format 1\_1, configured by higher layer parameter *ul-AccessConfigListDCI-1-1***

|  |  |  |
| --- | --- | --- |
| **Entry index** | **Channel Access Type**  | **The CP extension Text index defined in Clause 5.3.1 of [4, TS 38.211]** |
| 0 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 0 |
| 1 | Type2C-ULChannelAccess  defined in [clause 4.2.1.2.3 in 37.213] | 2 |
| 2 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 0 |
| 3 | Type2B-ULChannelAccess  defined in [clause 4.2.1.2.2 in 37.213] | 2 |
| 4 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 0 |
| 5 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 1 |
| 6 | Type2A-ULChannelAccess defined in [clause 4.2.1.2.1 in 37.213] | 3 |
| 7 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 0 |
| 8 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 1 |
| 9 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 2 |
| 10 | Type1-ULChannelAccess defined in [clause 4.2.1.1 in 37.213] | 3 |