**3GPP TSG RAN WG1 #110 R1-22xxxxx**

**Toulouse, France, August 22 – 26, 2022**

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| *CR-Form-v12.2* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **37.213** | **CR** |  | **rev** |  | **Current version:** | **17.2.0** |  |
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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 | **X** | Core Network |  |

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| ***Title:***  |  Rel-16 editorial corrections for TS 37.213 (mirrored to Rel-17) |
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| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_unlic-Core |  | ***Date:*** | 2022-08-30 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** |  Rel-17 |
|  | *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:*** | Capturing endorsed TP#3 and TP#5 in R1-2007919, in RAN1#110 to address the following editorial typos:* Redundant ‘p’ in clause 4.1.4.3
* Typo in using “carrier” instead of “channel” in clause 4.1.6.2.
* Additional spaces in two instances in clauses 4.2.1.0.4 and 4.2.1.2.1
* Redundant “the” in clause 4.1.6.2
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| ***Summary of change:*** | Redundance words (i.e. ‘p’ and ‘the’) and spaces are removed and “carrier” is changed to “channel” in respective clauses. |
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| ***Consequences if not approved:*** | Potentially inconsistent specification |
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| ***Clauses affected:*** | 4.1.4.3, 4.1.6.2, 4.2.1.0.4, 4.2.1.2.1 |
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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:*** |  |

#### 4.1.4.3 Common procedures for CWS adjustments for DL transmissions

The following applies to the procedures described in clauses 4.1.4.1 and 4.1.4.2:

- If , the next higher allowed value for adjusting is .

- If the is consecutively used times for generation of , is reset to only for that priority class for which is consecutively used times for generation of . is selected by eNB/gNB from the set of values {1, 2, …,8} for each priority class .

#### 4.1.6.2 Type B multi-channel access procedure

A channel is selected by the eNB/gNB as follows:

- the eNB/gNB selects by uniformly randomly choosing from before each transmission on multiple channels , or

- the eNB/gNB selects no more frequently than once every 1 second,

where is a set of channels on which the eNB/gNB intends to transmit, , and is the number of channels on which the eNB intends to transmit.

To transmit on channel

- the eNB/gNB shall perform channel access on channel according to the procedures described in clause 4.1.1 with the modifications described in clause 4.1.6.2.1 or 4.1.6.2.2.

To transmit on channel ,

- for each channel , the eNB/gNB shall sense the channel for at least a sensing interval immediately before transmitting on channel , and the eNB/gNB may transmit on channel immediately after sensing the channel to be idle for at least the sensing interval . The channel is considered to be idle for if the channel is sensed to be idle during all the time durations in which such idle sensing is performed on the channel in given interval .

The eNB/gNB shall not transmit a transmission on a channel , , for a period exceeding as given in Table 4.1.1-1, where the value of is determined using the channel access parameters used for channel .

For the procedures in this clause, the channel frequencies of the set of channels selected by gNB, is a subset of one of the sets of channel frequencies defined in [6].

If a gNB configures a carrier without intra-cell guard band(s) as described in clause 7 in [8], the gNB may not transmit on channel within the bandwidth of the carrier, if the gNB fails to access any of the channels of the carrier bandwidth.

##### 4.2.1.0.4 Channel access procedures for UL multi-channel transmission(s)

If a UE

- is scheduled to transmit on a set of channels , and if the UL transmissions are scheduled to start transmissions at the same time on all channels in the set of channels , or

- intends to perform an uplink transmission on configured resources on the set of channels , and if UL transmissions are configured to start transmissions at the same time on all channels in the set of channels ,

the following is applicable:

- if Type 1 channel access procedure is indicated or intended for the scheduled or configured UL transmissions, respectively, to be transmitted on the set of channels ,

- the UE may transmit on channel using Type 2 channel access procedure as described in clause 4.2.1.2,

- if the channel frequencies of the set of channels is a subset of the sets of channel frequencies defined in clause 5.7.4 in [2], and

- if Type 2 channel access procedure is performed on channel immediately before the UE transmission on channel , , and

- if the UE has accessed channel using Type 1 channel access procedure as described in clause 4.2.1.1,

- where channel is selected by the UE uniformly randomly from the set of channels before performing Type 1 channel access procedure on any channel in the set of channels .

- the UE may transmit on channel using Type 1 channel access procedure as described in clause 4.2.1.1

- the UE may not transmit on channel within the bandwidth of a carrier, if the UE fails to access any of the channels, of the carrier bandwidth, on which the UE is scheduled or configured with UL resources.

- the UE may not transmit on a channel within the bandwidth of a carrier if the UE is configured without intra-cell guard band(s) on an UL bandwidth part as described in clause 7 of [8], and the UE fails to access any of the channels of the UL bandwidth part.

##### 4.2.1.2.1 Type 2A UL channel access procedure

If a UE is indicated to perform Type 2A UL channel access procedures, the UE uses Type 2A UL channel access procedures for a UL transmission. The UE may transmit the transmission immediately after sensing the channel to be idle for at least a sensing interval . consists of a duration immediately followed by one sensing slot and includes a sensing slot at start of . The channel is considered to be idle for if both sensing slots of .are sensed to be idle.