**3GPP TSG RAN WG1 #104-e R1-210xxxx**

**E-Meeting, January 25th – February 5th, 2021**

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| *CR-Form-v12.0* | | | | | | | | |
| **Draft CHANGE REQUEST** | | | | | | | | |
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|  | **3** | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Draft CR on transmission timing adjustment procedure in 38.213 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Moderator (ZTE), Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_2step\_RACH-Core | | | | |  | ***Date:*** | | | 2021-01-27 |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | A 12-bit absolute TA can be in a DL-SCH with Absolute Timing Advance Command MAC CE which is already specified in 38.321 from 2-step RACH work item in NR R16.  But in 38.213, the 12 bits absolute TA is only assumed to be in RAR, and only 6-bit TA is assumed for all other cases. | | | | | | | | |
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| ***Summary of change:*** | | Clarify in the description of the transmission timing adjustment procedure that the 12-bit absolute TA can be also in the a DL-SCH with Absolute Timing Advance Command. | | | | | | | | |
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| ***Consequences if not approved:*** | | The 12 bits Timing Advance Command carried in Absolute Timing Advance Command MAC CE in a DL-SCH will be treated as a 6-bit TA in “other cases” in 38.213. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | |  | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

4.2 Transmission timing adjustments

<Unchanged Text Omitted>

A timing advance command in case of random access response or in an absolute timing advance command MAC CE, [11, TS 38.321], , for a TAG indicates values by index values of  = 0, 1, 2, ..., 3846, where an amount of the time alignment for the TAG with SCS of  kHz is . is defined in [4, TS 38.211] and is relative to the SCS of the first uplink transmission from the UE after the reception of the random access response or Absolute Timing Advance Command MAC CE.

In other cases, a timing advance command [11, TS 38.321], , for a TAG indicates adjustment of a current value, , to the new value, , by index values of  = 0, 1, 2,..., 63, where for a SCS of  kHz, .

<Unchanged Text Omitted>