**3GPP TSG- Meeting #-bis-e *xxxx***

**, - 2022**

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| *CR-Form-v12.0* |
| **DRAFT CHANGE REQUEST** |
|  |
|  |  | **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:***  |  |
|  |  |
| ***Source to WG:*** | Moderator (Qualcomm),  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 17 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | RAN1#109-e agreed that “Case-1” timing mode is considered the default timing mode for the Timing Case Indication MAC CE (blue highlighting added for clarity).**Agreement**RAN1 to inform RAN2 on the following in regard to the term “slot index” for the timing case in the context of the MAC-CEs Timing Case Indication, IAB-MT Recommended Beam Indication, Child IAB-DU Restricted Beam Indication, Desired DL Tx Power Adjustment, DL Tx Power Adjustment, and Desired IAB-MT PSD Range:* The term “slot index” indicates a list of slots.

Additionally, for the Timing Case Indication MAC-CE:* Each slot within the periodicity can be assigned a timing case value. Case 1 is considered the default.
* RAN1 does not preclude that a large fraction of the slots in the periodicity may use a given timing case value.

Detailed MAC-CE design is up to RAN2. |
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| ***Summary of change:*** | Update the specification to reflect the above agreement. |
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| ***Consequences if not approved:*** | The specification is incomplete. |
|  |  |
| ***Clauses affected:*** | 14 |
|  |  |
|  | **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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

# 14 Integrated access-backhaul operation

<Unchanged parts are omitted>

For a serving cell of an IAB-MT, the IAB-MT can be provided by Timing Case Indication MAC CE [11, TS 38.321] an indication of the IAB-MT transmission timing mode in a slot. Upon reception of the Timing Case Indication for a serving cell in a TAG, the IAB-MT applies a same IAB-MT transmission timing mode in a slot on all serving cells in the TAG.

If the indicated IAB-MT transmission timing mode in a slot is set to 'Case1' or the IAB-MT transmission timing mode indication in a slot is not provided, the IAB-MT transmission time is determined as for a "UE" in clause 4.2.

If the indicated IAB-MT transmission timing mode in a slot is set to 'Case6', the IAB-node sets the IAB-MT transmission time to the transmission time of the IAB-DU.

If the indicated IAB-MT transmission timing mode in a slot is set to 'Case7', the IAB-MT is provided a timing advance offset value $N\_{TA,offset,2}$ for a serving cell by 'Case7' Timing Advance Offset MAC CE [11, TS 38.321]. The IAB-MT determines its uplink transmission timing as $\left(N\_{TA}+ N\_{TA,offset}+ N\_{TA,offset,2}\right) ⋅T\_{c}$ where $N\_{TA}$ and $N\_{TA,offset}$ are obtained as for a "UE" in clause 4.2 and $N\_{TA,offset,2}=T\_{offset,2}⋅16⋅{64}/{2^{μ}}$ where $T\_{offset,2}$ is provided by the 'Case7' Timing Advance Offset MAC CE [11, TS 38.321].

<Unchanged parts are omitted>