**3GPP TSG-RAN WG4 Meeting # 99-e R4-2110000**

**Electronic Meeting,19-27th May, 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.809** | **CR** | **0003** | **rev** | **-** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **x** | Core Network |  |

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| ***Title:*** | Big CR for update on TR38.809t | | | | | | | | | |
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| ***Source to WG:*** | CATT | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_IAB-Core | | | | |  | ***Date:*** | | | 2021-5-31 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To include CR endorsed in RAN4#98bis-e to TR38.809. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The content, which in below draft CR endorsed in RAN4#98bis-e,is introduced in TR38.809:  R4-2106041 | | | | | | | | |
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| ***Consequences if not approved:*** | | The further agreement will not be updated to TR . | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.5.2.2, 9.6.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

## < Start of the changes >

#### 7.5.2.2 Error Vector Magnitude

EVM performance is the SNR performance of the transmitted signal. In order to have the same link performance, IAB-MT output signal quality should have the same performance as UE then guarantee the link quality. UE requirements are reused by IAB-MT EVM requirements. The difference is that BPSK EVM requirement is removed considering BPSK modulation is not likely to be used by the backhaul link. As IAB-MT is part of IAB node which is a network node, the principle of EVM frame structure for IAB-MT measurement can reuse BS EVM frame structure. It is agreed that only CP-OFDM signal is tested for IAB-MT and only PUSCH channel is measured for EVM requirement. Both BS and UE EVM measurement procecure can be used by IAB-MT for the Tx uplink signal EVM requirement.

## < Next change >

#### 9.6.2.2 Error Vector Magnitude

IAB-MT OTA EVM requirement analysis is the same as the conducted requirement in 7.5.2.2. IAB-MT type1-O EVM requirements should be the same with conducted requirements. IAB-MT type2-O EVM requirement reuses UE FR2 EVM requirements with the exception that BPSK requirement is removed. The IAB-MT frequency must be within a certain error limit relative to of the parent node's center frequency. It is agreed that only CP-OFDM signal is tested for IAB-MT and only PUSCH channel is measured for EVM requirement.Both BS and UE EVM measurement procecure can be used by IAB-MT for the Tx uplink signal EVM requirement.

## < End of the changes >