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

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

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| *CR-Form-v12.1* |
| **[DRAFT] CHANGE REQUEST** |
|  |
|  | **36.214** | **CR** | **NNNN** | **rev** | **N** | **Current version:** | **16.1.0** |  |
|  |
| *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:***  | Corrections to 36.214 for Reference Point for eNB Rx – Tx time difference |
|  |  |
| ***Source to WG:*** | CATT |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | TEI16 |  | ***Date:*** | 2021-01-29 |
|  |  |  |  |  |
| ***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 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)* |
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| ***Reason for change:*** | RAN4 had discussed the reference point for timing related measurements triggered by RAN1 LS R4-1907905 (R1-1907869) and sent Response LS to RAN1(R4-1915801). However, the description of the reference point for eNB Rx – Tx time difference in secion 5.2.5 in 36.214 is not matched with the Response LS from RAN4(R4-1915801). |
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| ***Summary of change:*** | Corrections to the reference point for eNB Rx – Tx time difference in section 5.2.5. And add one new reference in section 2. |
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| ***Consequences if not approved:*** | The reference point for eNB Rx – Tx time difference described in 36.214 does’t match the Response LS from RAN4(R4-1915801). |
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| ***Clauses affected:*** | 2, 5.2.5 |
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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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

# 2 References

================ Unchanged parts================

[18] 3GPP TS 38.133: "NR; Requirements for support of radio resource management".

[xx] 3GPP TS 37.105: "Active Antenna System (AAS) Base Station (BS) transmission and reception".

================ Unchanged parts================

### 5.2.5 eNB Rx – Tx time difference

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| **Definition** | The eNB Rx – Tx time difference is defined as T eNB-RX –TeNB-TXWhere:T eNB-RX is the eNB received timing of uplink radio frame #i, defined by the first detected path in time.The reference point for TeNB-RX shall be: for non-AAS base station [10,TS 36.104]: the Rx antenna connector, for OTA AAS base station [xx,TS 37.105]: the Rx antenna, for Hybrid AAS base station [xx,TS 37.105]: the Rx Transceiver Array Boundary connector.T eNB-TX is the eNB transmit timing of downlink radio frame #i.The reference point for TeNB-TX shall be: for non-AAS base station [10,TS 36.104]: the Tx antenna connector, for OTA AAS base station [xx,TS 37.105]: the Tx antenna, for Hybrid AAS base station [xx,TS 37.105]: the Tx Transceiver Array Boundary connector. |