**3GPP TSG-RAN2 Meeting # 116-e E-meeting R2-21xxxxx**

**Online, November 1-12, 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **36.304** | **CR** | **Draft** | **rev** | **-** | **Current version:** | **16.5.0** |  |
|  |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | Introduction of event-based trigger for LTE MDT logging |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2021-10-19 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Currently, logged measurements only captures periodic measurement, and it needs some functional changes with the introduction of event triggered logged MDT. |
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| ***Summary of change:*** | In Section 8 Logged measurements, event triggered logged MDT is introduced. |
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| ***Consequences if not approved:*** | Event triggered logged MDT is not supported in this specification. |
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| ***Clauses affected:*** | 8 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 36.306 CRxxxxTS 36.331 CRxxxxTS 37.320 CRxxxx |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

# 8 Logged measurements

The UE may be configured to perform logging of measurement results in RRC\_IDLE mode with the *LoggedMeasurementConfiguration* message as specified in TS 36.331 [3]*.* This configuration is valid while the logging duration timer is running.

If the configuration of logged measurements is valid, the UE shall perform logging of measurement results if all of the following conditions are met:

- The UE is in *camped normally* state in RRC\_IDLE mode;

- The RPLMN of the UE is the same as the RPLMN at the point of time of *LoggedMeasurementConfiguration* message reception, or is present in the *plmn-IdentityList* (see TS 36.331 [3]) if configured;

*-* The UE iscamped on a cell belonging to the *areaConfiguration* (see TS 36.331 [3]), if configured;

- The UE is camped on the RAT where the logged measurement configuration was received;

- The UE receives MBMS service from MBSFN area(s) belonging to *targetMBSFN-AreaList*, if included in the logged measurement configuration;

- The IDC capable UE does not detect the presence of in-device coexistence interference.

If the configuration of logged measurements is valid, but the UE is in *any cell* selection state in RRC\_IDLE mode, the UE perform logging of available information (i.e. at least indicator on *any cell selection* state and time stamp).

If the configuration of logged MBSFN measurements is valid, the UE shall perform logging of measurement results in RRC\_CONNECTED in addition to RRC\_IDLE, as described in TS 36.331 [3].

If the configuration of event-triggered logged measurements is valid, The UE shall perform logging of measurement results whenever the configured event has met as specified in TS 36.331 [3].

Otherwise, the logging of measurement results shall be suspended.

NOTE: Even if logging of measurement results is suspended, the logging duration timer and time stamp will continue, and the logged measurement configuration and corresponding log are kept.