**3GPP TSGSA WG5 Meeting #136-e *TDoc S5-212145***

electronic meeting, online, 1 - 9 March 2021

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | 32.422 | **CR** | 0359 | **rev** | **1** | **Current version:** | 16.4.0 |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Add new clauses and clarification for MDT collection peroid | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMDT | | | | |  | ***Date:*** | | | 2021-03-01 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Add new clauses and clarification for MDT collection period aligning with 36.413, 38.413. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | * Add new clauses for MDT collection period * Correct collection period for LTE | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The MDT collection periods would be missing | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.10.20, 5.10.Y, 5.10.Z,5.10.A, 5.10.B, 5.10.C | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

***First change***

### 5.10.20 Collection period for RRM measurements LTE

This parameter is mandatory if the job type is set to Immediate MDT or Immediate MDT and Trace and the bit 3 (M3) of the list of measurements parameter (defined in Section 5.10.3) in LTE is set to 1. The parameter is used only in case of RAN side measurements whose configuration is determined by RRM.

This measurement parameter defines the collection period that should be used to collect available measurement samples in case of RRM configured measurements. The same collection period should be used for all such measurements that are requested in the same MDT or combined Trace and MDT job.

The parameter is an enumerated type with the following values (detailed definition is in 3GPP TS 36.413 [36]):

- 100 ms (0)

- 1000 ms (1)

- 1024 ms (2),

- 1280 ms (3),

- 2048 ms (4),

- 2560 ms (5),

- 5120 ms (6),

- 10000 ms (7)

- 10240 ms (8),

- 1 min (9).

Some values may not be always available e.g., due to the large amount of logging they would generate in a highly loaded network. The selection of a specific subset of supported values at the eNB is vendor-specific.

***Next change***

### 5.10.A Collection period M4, M5 in LTE

This parameter is mandatory if the job type is set to Immediate MDT or Immediate MDT and Trace and any of bits 4 (M4) or 5 (M5) of list of measurements parameter in LTE is set to 1.

This measurement parameter defines the collection period that should be used to collect available measurement samples in case of data volume measurement and scheduled IP throughput measurements. The same collection period should be used for all such measurements that are requested in the same MDT or combined Trace and MDT job.

The parameter is an enumerated type with the following values (detailed definition is in 3GPP TS 36.413 [49]):

- 1024 ms (0),

- 2048 ms (1),

- 5120 ms (2),

- 10240 ms (3),

- 1 min (4)

### 5.10.B Collection period M6 in LTE

This parameter is mandatory if the job type is set to Immediate MDT or Immediate MDT and Trace and either the bit 7 of list of measurements parameter in LTE (M6 for DL or M6 for UL) is set to 1.

This measurement parameter defines the collection period that should be used for packet delay measurement made by the eNB. The same collection period should be used for the UL and DL.

The parameter is an enumerated type with the following values (detailed definition is in 3GPP TS 36.413 [49]):

- 1024 ms (0),

- 2048 ms (1),

- 5120 ms (2),

- 10240 ms (3)

Some values may not be always available e.g., due to the large amount of logging they would generate in a highly loaded network. The selection of a specific subset of supported values at the eNB is vendor-specific.

### 5.10.C Collection period M7 in LTE

This parameter is mandatory if the job type is set to Immediate MDT or Immediate MDT and Trace and either the bit 8 of list of measurements parameter in NR (M7 for DL or M7 for UL) is set to 1.

This measurement parameter defines the collection period that should be used for packet loss rate measurement made by the eNB. The same collection period should be used for the UL and DL.

The parameter is an integer type with the following values (detailed definition is in 3GPP TS 36.413 [49]):

1..60 min

Some values may not be always available e.g., due to the large amount of logging they would generate in a highly loaded network. The selection of a specific subset of supported values at the eNB is vendor-specific.

### 5.10.Y Collection period M6 in NR

This parameter is mandatory if the job type is set to Immediate MDT or Immediate MDT and Trace and either the bit 5 of list of measurements parameter in NR (M6 for DL or M6 for UL) is set to 1.

This measurement parameter defines the collection period that should be used for packet delay measurement made by the gNB. The same collection period should be used for the UL and DL.

The parameter is an enumerated type with the following values (detailed definition is in 3GPP TS 38.413 [49]):

- 120 ms (0),

- 240 ms (1),

- 480 ms (2),

- 640 ms (3)

- 1024 ms (4),

- 2048 ms (5),

- 5120 ms (6),

- 10240 ms (7)

- 20480 ms (8),

- 40960 ms (9),

- 1 min (10)

- 6 min (11).

- 12 min (12)

- 30 min (13)

Some values may not be always available e.g., due to the large amount of logging they would generate in a highly loaded network. The selection of a specific subset of supported values at the gNB is vendor-specific.

### 5.10.Z Collection period M7 in NR

This parameter is mandatory if the job type is set to Immediate MDT or Immediate MDT and Trace and either the bit 6 of list of measurements parameter in NR (M7 for DL or M7 for UL) is set to 1.

This measurement parameter defines the collection period that should be used for packet loss rate measurement made by the gNB. The same collection period should be used for the UL and DL.

The parameter is an integer type with the following values (detailed definition is in 3GPP TS 38.413 [49]):

1..60 min

Some values may not be always available e.g., due to the large amount of logging they would generate in a highly loaded network. The selection of a specific subset of supported values at the gNB is vendor-specific.

***End of changes***