**3GPP TSG-SA5 Meeting #156 *S5-245059***

**Maastricht, Netherlands, 19 - 23 August 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **1** | **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 |  | Radio Access Network | **X** | Core Network | **X** |

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| ***Title:*** | Rel-17 CR 32.422 Clarification on metric identifier for IEs of complex type | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2024-08-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | It is underspecified how individual elements of a complex IE shall be indicated in metric identifier. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify how to indicate individual elements of a complex IE in metric identifier. | | | | | | | | |
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| ***Consequences if not approved:*** | | It is not specified how single elements of a IE can be referenced in metric identifier. | | | | | | | | |
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| ***Clauses affected:*** | | 10.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | S5-243888 | | | | | | | | |

***First change***

# 10 Metric identifier

## 10.1 General

The metric identifiers are a sequence of items separated by ".". The sequence of items identifying a measurement is organised from the general to the particular. The individual items follow the Lower Camel Case naming convention [61]. There are different sequences for Immediate MDT, Logged MDT, Logged MBSFN MDT, Trace, RLF reports and RCEF reports.

## 10.2 Immediate MDT

The measurement names for Immediate MDT measurements consist of the following items:

- The first item identifies the MDT mode, i.e. "immediateMdt".

- The second item identifies the radio access technology (RAT), i.e. "nr", "lte" or "umts"

- The third item identifies the name of the measurement itself (e.g. m1, m2), see TS 37.320 [30].

- An additional item of the measurement attribute name may be present, e.g. "rsrp" or "ueLocation" or "ulThpTime" see TS 32.423 [3].

Possible examples:

- immediateMdt.nr.m1.rsrp

- immediateMdt.nr.m2

- immediateMdt.nr.m4

- immediateMdt.nr.m5.ulThpTime

- immediateMdt.nr.m6

- immediateMdt.nr.m7

- immediateMdt.nr.m8

- immediateMdt.nr.m9

- immediateMdt.lte.m2

## 10.3 Logged MDT and Logged MBSFN MDT

The measurement names for Logged MDT and Logged MBSFN MDT measurements consist of the following items:

- The first item identifies the MDT mode, i.e. "loggedMdt" or "loggedMbsfnMdt".

- The second item is optional and identifies the measurement attribute name, e.g. "rsrp" or "ueLocation".

Possible examples:

- loggedMdt.rsrp

- loggedMbsfnMdt

## 10.4 Trace

The measurement names for Trace messages consist of the following items:

- The first item identifies the job type, i.e. "trace".

- The second item identifies the network element type (e.g. amf, upf, gnbCuCp, gnbCuUp, gnbDu), see clause 5.4.

- The third item is optional and identifies the interface (e.g. n1, n2, n4, ng-c, xn-c, uu, f1-c, e1, x2-c) , see clause 5.5.

- The fourth item is optional and identifies the message name e.g. "ueContextReleaseRequest" or "handoverFailure".

- The fifth item is optional and identifies the IE name e.g. "cause". If the IE is a complex structure, subsequent items can be defined according to the hierarchy of the IE data structure, where each hierarchy level is separated by ".". Optionally the ASN.1 IE name, if existing, is used as is (i.e. no adjustment to Lower Camel Case naming convention).

Possible examples:

- trace.amf.n1

- trace.amf.n1.registrationRequest.requestedNssai

- trace.amf.n1.serviceRequest.serviceRequestMessageIdentity

- trace.amf.n1.serviceRequest.ulDataStatus

- trace.mme.s1-mme.ueContextReleaseRequest.cause

- trace.gnbCuCp.uu.CounterCheck.counterCheck.drb-CountMSB-InfoList.countMSB-Uplink

## 10.5 RLF report and RCEF report

The measurement names for RLF reports and RCEF reports consist of the following items:

- The first item identifies the job type, i.e. "rlfReport" or "rcefReport".

- The second item is optional and identifies the measurement attribute name, e.g. "rsrp" or "ueLocation".

Possible examples:

- rlfReport.rsrp

- rcefReport

***End of changes***