**3GPP TSG-SA4 Meeting #111-e  *S4-201476***

**Online, 11 - 20 Nov 2020**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.512** | **CR** | **0005** | **rev** | -- | **Current version:** | **16.0.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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 |  | Core Network | **X** |

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| ***Title:*** | Bug Fixes on Metrics Reporting Functionality | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | |  | | --- | |  | | Ericsson LM, Qualcomm Incorporated | | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS3 | | | | |  | ***Date:*** | | | 2020-11-09 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
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| ***Reason for change:*** | | There are a couple bugs in TS 26.512 regarding QoE metrics reporting functionality. | | | | | | | | |
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| ***Summary of change:*** | | Removed non-relevant text from clause 4.7.5 and placed that in a new clause 15.3. | | | | | | | | |
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| ***Consequences if not approved:*** | | Bugs remain in TS 26.512 regarding metrics reporting functionality. | | | | | | | | |
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| ***Clauses affected:*** | | 4.7.5, 15.3 (new) | | | | | | | | |
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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:*** | |  | | | | | | | | |

============================ First change ==============================

### 4.7.5 Procedures for metrics reporting

The M5d procedures for QoE metrics reporting pertain to the combination of the provisioning of metrics collection and reporting in the Media Session Handler using relevant Service Access Information, and the sending of collected metrics by the Media Session Handler to the 5GMSd AF in accordance with the configured metrics scheme(s). A metrics scheme may be 3GPP-defined or non-3GPP-defined.

When the metrics collection and reporting feature is activated for a downlink streaming session, one or more metrics configuration sets, each associated with a metrics scheme, may be provided to the 5GMSd client. A given metrics configuration set contains information such as the 5GMSd AF address(es) to which metrics are to be sent by the Media Session Handler, metrics reporting interval, target percentage of streaming sessions for which reports should be sent, and the set of metrics to be collected and reported. See TS 26.501 [2] for additional details.

For progressive download and DASH streaming services, the listed metrics in a given metrics configuration set are associated with the 3GPP metrics scheme and shall correspond to one or more of the metrics as specified in clauses 10.3 and 10.4, respectively, of TS 26.247 [4].

Details of the metrics reporting API are provided in clause 11.4, and for 3GP-DASH based downlink streaming services, the 3GPP-defined metrics reporting scheme and metrics report format are defined in clause 11.4.3.

============================ Second change ==============================

## 15.3 RAN-based Metrics Reporting API

These procedures shall be used by the Media Session Handler to control metrics reporting when such reporting is configured by the OAM via the 5G control channel.

The Media Session Handler shall subscribe to metrics configurations from the OAM according to TS 26.247 Annex L.1. When a metrics configuration is received, the Media Session Handler shall store this configuration and use it for all subsequent streaming sessions.

When a streaming session is started the Media Session Handler shall determine whether metrics from this session shall be reported. The determination shall be based on the *sample percentage* and *streaming source filter* specified in the stored metrics configuration, according to TS 26.247 Annex F.

If metrics are to be reported for the session, the Media Session Handler shall request the Media Player to create a metrics collection job. The Media Player shall return a reference to the created job, which the Media Session Handler shall use in all subsequent actions related to this job.

The Media Session Handler shall configure the metrics collection job with the set of metrics that shall be collected during the session. The format of the configuration shall be according to TS 26.247 Annex L.2, but note that only the *metrics* attribute in the configuration shall be used for this purpose.

The Media Session Handler shall regularly request the collected metrics from the Media Player according to the *reporting interval* specified in the metrics configuration. The metrics returned by the Media Player shall use the format as described in TS 26.247 clause 10.6, and the Media Session Handler shall forward these to the OAM according to TS 26.247 Annex L.1.

When the session is finished the Media Session Handler shall delete the metrics collection job.