**3GPP TSG-SA4 Meeting #115e *S4-211106***

**Electronic meeting, Telco, August 18-27, 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.512** | **CR** | **0013** | **rev** |  | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Corrections to TS 26.512 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | SA4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS3 | | | | |  | ***Date:*** | | | 2020-08-11 |
|  |  | | | |  | |  | | |  |
| ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There are some mistakes as well as lack of specificity in TS 26.512. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The following corrections/changes are proposed:   * Clarification text added to the description of two existing properties in that table. * Clarification text regarding the descriptions of the *reportingInterval* *samplePercentage* properties of the MetricsReportingConfiguration resource in Table 7.8.3-1. * Correction of term “authorities” in the txt under clause 12.2.1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incorrect or inadequately described stage 3 text that could hamper correct and interoperable implementations. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.7.3.1, 7.8.3, 12.2.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |
| ***56*** | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revision of original version in S4-211106 by backing out entirely two previously proposed changes, and modifying a third one. | | | | | | | | |

1st CHANGE: Clause 7.7.3

### 7.7.3 Data model

#### 7.7.3.1 ConsumptionReportingConfiguration resource

The data model for the ConsumptionReportingConfiguration resource is specified in table 7.7.3.1‑1.

Table 7.7.3.1-1: ConsumptionReportingConfiguration resource

|  |  |  |  |
| --- | --- | --- | --- |
| Property name | Type | Cardinality | Description |
| reportingInterval | DurationSec | 0..1 | The interval between two consecutive consumption reports. The value shall be greater than zero.  If absent, a single final report shall be sent immediately after the media streaming session has ended. |
| samplePercentage | Percentage | 0..1 | The proportion of media streaming clients that shall report media consumption, expressed as a floating point value between 0.0 and 100.0.  If not specified, all clients shall send consumption reports. |
| locationReporting | boolean | 0..1 | Stipulates whether the Media Session Handler is required to provide location data to the 5GMSd AF in consumption reporting messages (in case of MNO or trusted third parties). |

END OF 1st CHANGE

2nd CHANGE: Clause 7.8.3

### 7.8.3 Data model

#### 7.8.3.1 MetricsReportingConfiguration resource

The data model for the MetricsReportingConfiguration resource is specified in table 7.8.3-1 below:

Table 7.8.3‑1: Definition of MetricsReportingConfiguration resource

| Property name | Type | Cardinality | Description |
| --- | --- | --- | --- |
| *metricsReportingConfigurationId* | ResourceId | 1..1 | An identifier for this Metrics Reporting Configuration that is unique within the scope of the enclosing Provisioning Session. |
| *scheme* | Uri | 0..1 | The scheme associated with this Metrics Reporting Configuration. A scheme may be associated with 3GPP or with a non-3GPP entity.  For downlink media streaming, if not specified, the 3GPP metrics scheme urn:‌3GPP:‌ns:‌PSS:‌DASH:‌QM10 from TS 26.247 shall apply.  For uplink media streaming, if not specified, the implication is that no associated uplink metrics reporting shall be performed. |
| *dataNetworkName* | Dnn | 0..1 | The Data Network Name (DNN) which shall be used when sending metrics reports.  If not specified, the default DNN shall be used. |
| *reportingInterval* | DurationSec | 0..1 | The time interval between successive metrics reports. The value shall be greater than zero.  If not specified, a single final report shall be sent after the media streaming session has ended. |
| *samplePercentage* | Percentage | 0..1 | The proportion of media streaming sessions for which metrics shall be reported, expressed as a floating point value between 0.0 and 100.0.  If not specified, reports shall be sent for all sessions. |
| *urlFilters* | Array(String) | 0..1 | A non-empty list of content URL patterns for which metrics shall be reported.  If not specified, reporting shall be done for all URLs. |
| *metrics* | Array(String) | 0..1 | A non-empty list of metrics which shall be collected and reported.  In the case of downlink media streaming and for the 3GPP scheme urn:‌3GPP:‌ns:‌PSS:‌DASH:‌QM10 the listed metrics shall correspond to one or more of the metrics as specified in clauses 10.3 and 10.4, respectively, of TS 26.247 [7], and the quality reporting scheme and quality reporting protocol as defined in clauses 10.5 and 10.6, respectively, of [7] shall be used.  In the case of uplink streaming, no standardized metrics nor metrics reporting protocol are defined in the present document. It is assumed that those quality metrics and reporting protocol are defined by the metrics scheme.  If not specified, the complete (or default if applicable) set of metrics associated with the specified scheme shall be collected and reported. |

END OF 2nd CHANGE

3rd CHANGE: Clause 12.2.1

## 12.2 Media Session Handling for Downlink media streaming – APIs and Functions

### 12.2.1 Overview

In the following, it is assumed that the Media Session Handler for downlink media streaming adheres to a basic set of functionalities as shown in Figure 12.2.1-1.



Figure 12.2.1-1: Usage of M6d in Media Downlink Streaming

The Media Session Handler is considered to run as a service in the background, and is invoked for a media session once a media player in the 5GMSd streaming client is activated with an MPD URL of media MIME type "application/dash+xml". Based on the MPD URL, the Media Session Handler may initiate communication with the 5GMSd AF through M5d.

NOTE: The initiation of the Media Session Handler for other media types than DASH is for further study.

For an ongoing 5G Media Streaming session, the Media Session Handler is given the following authorizations:

1) The ability to do status query on M7d. For details see clause 13.

2) The ability to process notifications and error on M7d. For details see clause 13.

3) The ability to configure certain parameters on the media player based on M7d. For details again see clause 13.

In addition, the MSH can provide information on M6d to the application and possibly delegated to Media Player using M6d for each of the Media Session Handler functionalities, namely providing:

1) Notification and Error Events;

2) Status Information.

END OF 3rd CHANGE