**3GPP TSG-SA4 Meeting #110e *S4-201056***

**Virtual meeting, August 19 - 28, 2020**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **PSEUDO CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.512** | **CR** | **<CR#>** | **rev** | **<Rev#>** | **Current version:** | **1.3.0** |  |
|  | | | | | | | | |
| *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 |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Update on Metrics Reporting | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS3 | | | | |  | ***Date:*** | | | 2020-08-17 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Metrics reporting clauses 7.8 and 11.4 are currently empty. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add text in clauses. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not possible to provision or report metrics. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.8, 11.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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

## 7.8 Metrics Reporting Provisioning API

### 7.8.1 Overview

The Metrics Reporting Provisioning API allows an MNO or a 5GMSd Application Provider to configure the Metrics Collection and Reporting procedure for a particular Provisioning Session at interface M1d.

### 7.8.2 Resource structure

The Metrics Reporting Provisioning API is accessible through the following URL base path:

{apiRoot}/3gpp-m1d/v1/provisioning-sessions/{provisioningSessionId}/

Table 7.8.2‑1 below specifies the operations and the corresponding HTTP methods that are supported by this API. In each case, the Provisioning Session identifier shall be substituted into {provisioningSessionId} in the above URL template and the sub-resource path specified in the second column shall be appended to the URL base path.

Table 7.8.2-1: Metrics Reporting Configuration resource

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Sub‑resource path | Allowed HTTP method(s) | Description |
| Create a metrics reporting configuration | metrics‑reporting‑configuration | POST | Create and optionally provide a configuration; returns the *{configurationId}*. |
| Read metrics configuration | metrics‑reporting‑configuration/{configurationId} | GET | Read the values of an existing configuration. |
| Update metrics reporting configuration | PUT | Provide a replacement configuration. |
| Delete metrics configuration | DELETE | Delete a configuration, disables reporting. |

### 7.8.3 Data model

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 | String | 1.1 | An identifier for this Metrics Reporting Configuration that is unique within the scope of the enclosing Provisioning Session. |
| scheme | Array(URI String) | 0..1 | The scheme associated with this metrics configuration. A scheme may be associated with 3GPP or with a non-3GPP entity. If not specified, the 3GPP metrics scheme "urn:3GPP:ns:PSS:DASH:QM10" from TS 26.247 shall apply. |
| dataNetworkName | String | 0..1 | The Data Network Name (DNN) which shall be used when sending metrics report for this metric configuration.  If not specified, the default DNN shall be used. |
| reportingInterval | DurationSec | 0..1 | The sending interval between metrics reports for this metric configuration.  If not specified, a single final report shall be sent after the streaming session has ended. |
| samplePercentage | Percentage | 1..1 | The proportion of streaming sessions that shall report metrics for this metric configuration.  If not specified, reports shall be sent for all sessions. |
| urlFilters | Array(String) | 1..N | A list of content URL patterns for which metrics reporting shall be done for this metric configuration.  If not specified, reporting shall be done for all URLs. |
| metrics | Array(String) | 1..N | A list of metrics which shall be collected and reported for this metric configuration.  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.  If not specified, the complete (or default if applicable) set of metrics associated with the specified scheme will be collected and reported. |

================================== Next change ==================================

## 11.4 Metrics Reporting API

### 11.4.1 Overview

The Metrics Reporting API allows the Media Session Handler to send metrics reports to the 5GMSd AF.

### 11.4.2 Resource structure

The Metrics Reporting API is accessible through the following URL base path:

{apiRoot}/3gpp-m5d/v1/metrics-reporting/

Table 11.4.2‑1 below specifies the operations and the corresponding HTTP methods that are supported by this API.

Table 11.4.2‑1: Operations supported by the Metrics Reporting API

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Sub‑resource path | Allowed HTTP method(s) | Description |
| Send a metrics report | None | POST | Upload a metrics report to the 5GMSd AF |

### 11.4.3 Data model

The format of the uploaded metrics report shall be as specified in TS 26.247 clause 10.6.