**3GPP TSG-SA4 Meeting #108-e *S4-200577***

**2-9 April, 2020, Electronic Meeting**

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| *CR-Form-v12.0* | | | | | | | | |
| **pseudo CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** | **1.0.1** |  |
|  | | | | | | | | |
| *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 |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | API for Service Access information aquisition | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS3 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | TS 26.501 defines the Service Access information concept in Clause 4.2.3 and the usage in clause 5.1 (e.g. step 6). This pCR introduces the data model and the resource for fetching the service access information. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.6.x (new), 5.x (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\* First Change \*\*\*\*

### 4.6.x Procedures for Service Access Information

#### 4.6.x.1 General

Service Access Information is the set of parameters and addresses needed by the 5GMSd Client to activate reception of a downlink streaming session.

#### 4.6.x.2 Create Service Access Information

The Create operation is not allowed on Service Access Information.

#### 4.6.x.3 Read Service Access Information properties

This procedure shall be used by the Media Session Handler to aquire Service Access Information from the 5GMSd AF. The Media Session Handler uses the GET method for this purpose.

The downlink streaming session for which the Media Session Handler is requesting data is identified by a unique reference contained in the path of the URL, as specified in clause 5.x.3.

4.6.x.4 Update Service Access Information propertiesThe Update operation is not allowed on Service Access Information.

#### 4.6.x.5 Delete Service Access Information properties

The Delete operation is not allowed on Service Access Information.

\*\*\*\* Next Change \*\*\*\*

## 5.x Service Access Information API

### 5.x.1 General

### 5.x.2 Data model

#### 5.x.2.1 ServiceAccessInformation resource type

The data model for the ServiceAccessInformtion resource is specified in Table 5.x.2.1‑1 below:

Table 5.x.2.1‑1: Definition of ServiceAccessInformation resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Property name | Type | Cardinality | Description | Applicability (NOTE) |
| provisioningSessionId | String | 1..1 | Unique identification of the M1d Provisioning Session. |  |
| StreamingAccess | Object | 0..1 |  |  |
| mediaPlayerEntry | URL String | 1..1 | A document or a pointer to a document that defines a media presentation e.g. MPD for DASH content or URL to a video clip file. |  |
| URL signing information |  |  | Editor’s Note: For further study |  |
| ConsumptionReporting | Object | 0..1 |  |  |
| reportingInterval | Integer | 1..1 | The time interval, expressed in seconds, between consumption report messages being sent by the 5GMS Media Session Handler. |  |
| serverAddress | [URL String] | 1..n | A list of 5GMSd AF addresses where the consumption reporting messages are sent by the 5GMS Media Session Handler. |  |
| locationReporting | Boolean | 1..1 | Stipulates whether the 5GMS Media Session Handler is required to provide location data to the Media AF in consumption reporting messages (in case of MNO or trusted third parties) |  |
| samplePercentage | Integer | 1..1 | The percentage of streaming session that shall send consumption reporting messages. |  |
| DynamicPolicyInvocation | Object | 0..1 |  |  |
| serverAddress | [URL String] | 1..n | A list of 5GMSd AF addresses which offer the APIs for dynamic policy invocation sent by the 5GMS Media Session Handler.  (Opaque URL, following the 5GMSA URL format) |  |
| policyTemplateId | [String] | 1..n | A list of Policy Template Ids, which the 5GMSd Client is authorized to use. |  |
| Metrics | Object | 0..1 |  |  |
| serverAddress | [URL String] | 1..n | A list of 5GMSd AF addresses to which metrics reports shall be sent. |  |
| dNN | String |  | The DNN which shall be used when sending metrics reports. If not specified, the default DN shall be used. |  |
| reportingInterval | Integer |  | The time interval, expressed in seconds, between metrics reports being sent by the 5GMS Media Session Handler.  If not specified, a single final report shall be sent after the streaming session has ended. |  |
| samplePercentage | Float |  | The percentage of streaming sessions that shall report metrics.  If not specified, reports shall be sent for all sessions. |  |
| streamingSourceFilter | [String] |  | A list of URL patterns for which metrics reporting shall be done.  If not specified, reporting shall be done for all sessions. |  |
| metrics | [String] |  | A list of metrics which shall be reported. |  |

### 5.x.3 Resources

The aquiring Service Access Information API is accessible through this URL paths:

{apiRoot}/3gpp-m5d/v1/service-access-information/{provisioning-session-id}

The following operations and the corresponding HTTP methods are supported. In each case, the sub-resource path specified in the second column shall be substituted into {provisioning-session-id } in the above URI template:

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Sub‑resource path | Allowed HTTP method(s) | Description |
| Fetch Service Access Information |  | GET | This operation is used to aquire a Service Access Information resource. |

### 5.x.4 Operations

This clause defines the behaviour that is expected from the 5GMSd AF when a Service Access Information resource is aquired from the Media Session Handler. The main operation that is performed is to look up or compile the Service Access Information.

\*\*\*\* Last Change \*\*\*\*