**3GPP SA4#127-bis-eS4-240673**

Online, 08-12 Apr 2024

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| *CR-Form-v12.2* |
| **PSEUDO CHANGE REQUEST** |
|  |
|  | **26.510** | **CR** | pseudo | **rev** |  | **Current version:** | 1.1.4 |  |
|  |
| *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:***  | Improving M6 general parts |
|  |  |
| ***Source to WG:*** | Tencent Cloud |
| ***Source to TSG:*** | S4 |
|  |  |
| ***Work item code:*** | 5GMS\_Pro\_Ph2 |  | ***Date:*** | 2024-04-20 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-18 |
|  | *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 canbe 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | Updating clause 10, interface at reference point M6 |
|  |  |
| ***Summary of change:*** | 1. 10.2.1: new entry in the table
2. 10.2.2: updating the methods
3. 10.2.3: updating the events
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|  |  |
| ***Consequences if not approved:*** | M6 is underdefined and not clear. |
|  |  |
| ***Clauses affected:*** |  |
|  |  |
|  | **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:*** |  |

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| --- |
| **1st Change** |

# 10 UE media session handling APIs

## 10.1 Introduction

This clause defines the client APIs exposed by the Media Session Handler to the Media-aware Application at reference point M6 and to the Media Access Function at reference point M11.

NOTE: Client-driven management of edge processing resources via reference point M6 is not specified in this release.

## 10.2 Media Session Handler client API

### 10..2.1 Media Session Handler internal properties

The Media Session Handler maintains internal properties as defined table 10.2.1-1. Note that the parameters are conceptual and internal. They serve only for the purpose of defining the media session handling APIs.

Table 10.2.1-1: Parameters of Media Session Handler

|  |  |
| --- | --- |
| States and Parameters | Definition |
| \_Configuration[externalServiceId] | The Media Session Handler maintains a separate configuration for each set of Service Access Information it has knowledge of, indexed by its external service identifier. |
|  | \_mediaAccess | Media access information including the provisioning session type and streaming access information. |
|  | \_networkAssistance | Network Assistance configuration. |
|  | \_policyTemplate | Policy Template configuration. |
|  | \_consumptionReporting | Consumption reporting configuration. |
|  | \_metricsReporting | Metrics reporting configuration. |
| \_status[mediaDeliverySessionId] | The Media Session Handler maintains a separate status record for each currently active media delivery session, indexed by media delivery session identifier. |
|  | \_generalStatus | General status information. (See table 10.2.3‑1.) |
|  | \_dynamicPolicyStatus | Dynamic Policy status information. (See table 10.3.2-1) |
|  | \_networkAssistanceStatus | Network Assistance status information. (See table 10.4.2-1) |
|  | \_consumptionReportingStatus | Consumption Reporting status information. (See table 10.5.2‑1.) |
|  | \_metricsReportingStatus | Metrics Reporting status information. (See table 10.6.2‑1.) |

A subset of the above information which is needed by the Application and Media Access Function is accessible through reference point M6 and M11, respectfully.

### 10.2.2 General Media Session Handler methods

#### 10.2.2.1 Refresh Service Access Information

This method is used to request the Media Session Handler retrieves the latest Service Access Information from the Media AF.

#### 10.2.2.2 Retrieve media access information

This method is used for retrieving the provisioning session type and streaming access information.

#### 10.2.2.3 Start media delivery session

There are different ways to start a Media Delivery Session. One typical case is that the start is bound to the call by the 5GMS-Aware Application directly at reference point M6 or indirectly at reference point M11 through Media Access Function with an Media Entry Point URL obtained from Service Access Information. That start method offers a client–server like interface. The service is bound such that the Media Session Handler communicates back to the 5GMS-Aware Application or Media Access Function with the status of the Media Delivery Session, including a Media Delivery Session identifier assigned by the Media Session Handler that is used in subsequent interactions with it.

#### The alternative way to start a new media delivery session is to pass a 3GPP Service URL to the Media Session Handler through reference point M6.10.2.2.4 Stop media delivery session

This method is used to (temporarily) stop a Media Delivery Session without releasing the associated resources and state in the Media Session Handler.

#### 10.2.2.5 Tear down media delivery session

### This method is used to release the allocated resources and the Media Delivery Session identifier.10.2.3 General Media Session Handler information

Table 10.2.3-1 specifies the status information that can be obtained from the Media Session Handler through reference point M6.

Table 10.2.3-1: General Media Session Handler Status Information

|  |  |  |  |
| --- | --- | --- | --- |
| Status | Type | Parameter | Definition |
| SESSION\_HANDLING\_STATUS | Enumeration:STARTEDSTOPPEDERROREDTEARED-DOWN | Media delivery session identifier | The status of media delivery session:STARTED: The Media Delivery Session is assigned, and media is being delivered.STOPPED: The Media Delivery Session is assigned, but media is not being delivered at this time.ERRORED: There is an error in media session handling.TORN\_DOWN: The Media Delivery Session was torn down, and resources were released. |

Table 10.2.3-2 provides a list of general notification events exposed at reference point M6.

Table 10.2.3-2: General Media Session Handler Notification Events

|  |  |  |
| --- | --- | --- |
| Event | Definition | Payload |
|  |  |  |
| SESSION\_HANDLING\_STARTED | Triggered when media is being delivered for a particular media delivery session. | Media delivery session identifier. |
| SESSION\_HANDLING\_STOPPED | Triggered when media session handling stopped for a specific media delivery session. | Media delivery session identifier. |
| SESSION\_HANDLING\_TORN\_DOWN | Triggered when media session handling was activated for a specific Media Entry Point. | Media delivery session identifier. |

Table 10.3.3-3 provides a list of general error events exposed at reference point M6.

Table 10.2.3-3: General Media Session Handler Error Events

|  |  |  |
| --- | --- | --- |
| Status | Definition | Payload |
| ERROR\_SESSION\_HANDLING | Triggered when there is an error in the media session handling. | Media delivery session identifier. |