**3GPP TSG-S4 Meeting #128S4-240940**

Jeju Island, KR, 20-24 May 2024 revision of S4-240723

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| *CR-Form-v12.2* | | | | | | | | |
| **PSEUDO CHANGE REQUEST** | | | | | | | | |
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|  | **26.510** | **CR** | pseudo | **rev** |  | **Current version:** | 1.2.3 |  |
|  | | | | | | | | |
| *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:*** | Adding edge resource exposure to M6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Tencent Cloud | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS\_Pro\_Ph2 | | | | |  | ***Date:*** | | | 2024-04-02 |
|  |  | | | |  | |  | | |  |
| ***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 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Updating clause 10 note regarding the edge resources management API  Notes:   1. SA4 added EdgeProcessingEligibilityCriteria to Service Access Information which is unique for media services:  | Property name | Type | Cardinality | Description | | --- | --- | --- | --- | | service‌DataFlow‌Descriptions | array(Service‌DataFlow‌Description) | 1..1 | A set of Service Data Flow descriptions that are to be used as triggers for invoking edge media processing (see NOTE 1).  If the set is empty, edge media processing may be invoked for an otherwise eligible media stream session on any service data flow.  Valid ServiceDataFlowDescription elements:  - domainName  - flowDescription.destinationAddress and flowDescription.destinationPort  - flowDescription.differentiatedServices  - flowDescription.flowLabel  Other ServiceDataFlowDescription settings shall be rejected by the Media AF. | | ueLocations | array(Location‌Area5G) | 1..1 | A set of geographical areas in which edge media processing is to be triggered when a UE is present (see NOTE 2).  If the set is empty, edge media processing may be invoked for an otherwise eligible media stream session in any location. | | timeWindows | array(TimeWindow) | 1..1 | Edge media processing is triggered when the media streaming session is taking place during one of the indicated time windows (see NOTE 2).  If the set is empty, edge media processing may be invoked for an otherwise eligible media stream session at any time. | | appRequest | boolean | 1..1 | When set true, edge media processing is to be triggered based on application request only. |  1. The EGDE-5 APIs are not defined yet to our knowledge. 2. One simple way of exposing the above property is to expose the SAI to the application. In this case, the application would be responsible to make sure the elegibility criteria is met. Then the application can use the EGDE-5 APIs or alternative to request edge resources through EEC. 3. Therefore we suggest to add a note to clarify the information is exposed to application. 4. Alternatively, the elegibility can be exposed as a status to the application. In this cas, the MSH would be responsible to see if the app is elegible. S4-240723 proposes such status. | | | | | | | | |
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| ***Summary of change:*** | | 1. 10.1: adding the clarification text. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete spec: while clause 8 talks about edge provisioning, there is no mention of edge resource management by the application in clause 10. | | | | | | | | |
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| ***Clauses affected:*** | |  | | | | | | | | |
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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:*** | |  | | | | | | | | |

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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. |
|  | \_networkAssistance | Network Assistance configuration. |
|  | \_policyTemplate | Policy Template configuration. |
|  | \_edgeResource | Edge Resources 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.) |