**3GPP TSG-SA4 Meeting #118-e *S4-220380***

**Online, 6th – 14th April 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.512** | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | draft CR on API for client-driven edge management | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | S4 | | | | | | | | | |
| ***Source to TSG:*** | Qualcomm Incorporated | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS\_EDGE\_3 | | | | |  | ***Date:*** | | | 31 March 2022 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | 17 |
|  | *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:*** | | For client-driven edge resource management, interaction with the application to share information about the edge resources usage is added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding status and notification information related to edge resource usage. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Application will not be aware about edge resource usage. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 12.2.2.2, 12.2.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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** |

#### 12.2.2.2 Media Session Handler internal properties

The Media Session Handler maintains internal properties as defined Table 12.2.2.2-1. Note that the parameters are conceptual and internal and only serve for the purpose to describe message generation on the API calls.

Table 12.2.2.2-1: Parameters of Media Session Handler

|  |  |  |  |
| --- | --- | --- | --- |
| States and Parameters | | | Definition |
| \_Configuration | | |  |
|  |  | \_networkAssistance | Network Assistance configuration. |
|  |  | \_policyTemplate | Policy Template configuration. |
|  |  | \_consumptionReporting | Consumption reporting configuration. |
|  |  | \_metricsReporting | Metrics reporting configuration. |
|  |  | \_clientEdgeResources | Client edge resources configuration. |
| \_status[] | | | The Media Session Handler maintains a status record. |

|  |
| --- |
| **Second Change** |

### 12.2.8 Client Edge Resources Information

Table 12.2.8-1 provides a list of status information related to the edge configuration that can be obtained from the MSH through M6d.

Table 12.2.8-1: Status Information related to Client Edge Resources

|  |  |  |  |
| --- | --- | --- | --- |
| Status | Type | Parameter | Definition |
| edgeResourcesActive | Boolean |  | Indicates if client-managed edge resources are currently active for the current media streaming session. |

Table 12.2.8-2 provides a list of notification events related to edge configuration and exposed on M6d.

Table 12.2.8-2: Notification Events related to Client Edge Resources status

|  |  |  |
| --- | --- | --- |
| Status | Definition | Payload |
| EDGE\_RESOURCES\_REQUESTED | Informs the application that edge resources have been requested for the current media streaming session. | Not applicable. |
| EDGE\_RESOURCES\_ACTIVATED | Informs the application that edge resources have been allocated and activated for the current media streaming session. | Not applicable. |
| EDGE\_AS\_RELOCATING | Informs the application that relocation of the EAS instance supporting this media streaming session is in progress. | Not applicable. |
| EDGE\_AS\_RELOCATED | Informs the application that the procedure to relocate the EAS instance supporting this media streaming session has completed. | success: Boolean. |
| EDGE\_RESOURCES\_RELEASED | Informs the application that edge resources associated with the current media streaming session have been released. | Not applicable. |