**3GPP TSG SA WG4 Meeting #125 S4-231362**

**Goteborg, SE, 21 - 25 Aug 2023**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.512** | **CR** | **0053** | **rev** |  | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** |  | | | | | | | | |
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| ***Source to WG:*** | Tencent | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | |
|  |  | | | | | | | | |
| ***Work item code:*** | 5GMS3, TEI17 | | | | |  | ***Date:*** | | 2023-08-15 |
|  |  | | | |  | |  | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | Rel-17 |
|  |  | | | | | | | | |
| ***Reason for change:*** | | Editorial correction of the downlink streaming content hosting | | | | | | | |
|  | |  | | | | | | | |
| ***Summary of change:*** | | 1. Editorial corrections and alignment 2. Adding the clause on purge | | | | | | | |
|  | |  | | | | | | | |
| ***Consequences if not approved:*** | | Unclarity and missing description | | | | | | | |
| ***Q*** | |  | | | | | | | |
| ***Clauses affected:*** | | 4.3.3.5, 4.3.3.6 (new), 7.6.2 | | | | | | | |
|  | |  | | | | | | | |
|  | | **Y** | **N** |  | | | |  | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | |
|  | |  | | | | | | | |
| ***Other comments:*** | |  | | | | | | | |
|  | |  | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | |

FIRST CHANGE

### 4.3.3 Content Hosting Provisioning procedures

#### 4.3.3.1 General

These procedures are used by the 5GMSd Application Provider and the 5GMSd AF on M1d to provision the content hosting feature for downlink streaming.

#### 4.3.3.2 Create Content Hosting Configuration

This procedure is used by the 5GMSd Application Provider to create a new Content Hosting Configuration. The 5GMSd Application Provider shall use the HTTP POST method for this purpose and the request message body shall include a ContentHostingConfiguration resource, as specified in clause 7.6.3.1.

- If the Content Hosting Configuration uses the Pull-based content ingest method, i.e. the pull attribute is set to True, then the IngestConfiguration.baseURL property shall be nominated by the 5GMSd Application Provider in the request message body. The 5GMSd AF shall return the IngestConfiguration.baseURL property value unchanged in its response message body.

- If the Content Hosting Configuration uses the Push-based content ingest method, i.e. the pull attribute is set to False, then the IngestConfiguration.baseURL property shall be nominated by the 5GMSd AF and returned in the response message body. It shall not be set by the 5GMSd Application Provider in the request message body.

In all cases, the DistributionConfiguration.baseURL property is read-only: it shall be omitted from the creation request and shall be assigned by the 5GMSd AF, allowing the value to be inspected by the 5GMSd Application Provider in the returned ContentHostingConfiguration resource representation, or by using the procedure specified in clause 4.3.3.3 below.

If the procedure is successful, the 5GMSd AF shall generate a resource identifier representing the new Content Hosting Configuration. In this case, the 5GMSd AF shall respond with a 201 (Created) HTTP response message and shall provide the URL to the newly created resource in the Location header field. The response message body may include a ContentHostingConfiguration resource (see clause 7.6.3.1) that represents the current state of the Content Hosting Configuration, including any fields set by the 5GMSd AF.

If the procedure is not successful, the 5GMSd AF shall provide a response code as defined in clause 6.3.

#### 4.3.3.3 Read Content Hosting Configuration properties

This procedure is used by the 5GMSd Application Provider to obtain the properties of an existing Content Hosting Configuration resource from the 5GMSd AF. The HTTP GET method shall be used for this purpose.

If the procedure is successful, the 5GMSd AF shall respond with a 200 (OK) response message that includes the ContentHostingConfiguration resource in the response message body.

If the procedure is not successful, the 5GMSd AF shall provide a response code as defined in clause 6.3.

#### 4.3.3.4 Update Content Hosting Configuration properties

The update operation is invoked by the 5GMSd Application Provider to modify the properties of an existing ContentHostingConfiguration resource. All writeable properties except domainNameAlias may be updated. The HTTP PATCH or HTTP PUT methods shall be used for the update operation.

If the procedure is successful, the 5GMSd AF shall respond with a 200 (OK) and provide the content of the resource in the response, confirming the successful update operation.

If the procedure is not successful, the 5GMSd AF shall provide a response code as defined in clause 6.3.

#### 4.3.3.5 Destroy Content Hosting Configuration

This operation is used by the 5GMSd Application Provider to destroy a Content Hosting Configuration resource and to terminate the related distribution. The HTTP DELETE method shall be used for this purpose. As a result, the 5GMSd AF will release any associated network resources, purge any cached content, and delete any corresponding configurations.

If the procedure is successful, the 5GMSd AF shall respond with a 200 (OK) response message.

If the procedure is not successful, the 5GMSd AF shall provide a response code as defined in clause 6.3.

#### 4.3.3.6 Purge Content Hosting cache

This operation is used by the 5GMSd Application Provider to purge content from the 5GMSd AS Content Hosting cache. The HTTP POST method shall be used for this purpose with a regular expression describing the media resource URLs to be purged provided in the body of the request, as specified in clause 7.6.4.3. As a result, the 5GMSd AF purges any cached content whose URL matches the specified regular expression.

If the procedure is successful, the 5GMSd AF shall respond with a 200 (OK) response message.

If the procedure is not successful, the 5GMSd AF shall provide a response code as defined in clauses 6.3 and 7.6.4.3.

NEXT CHANGE

### 7.6.2 Resource structure

The Content Hosting Provisioning API is accessible through this URL base path:

{apiRoot}/3gpp-m1*/*{apiVersion}*/*provisioning-sessions/{provisioningSessionId}/

Table 7.6.2-1 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 7.6.2‑1: Operations supported by the Content Hosting Provisioning API

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Sub‑resource path | Allowed HTTP method(s) | Description |
| Create Content Hosting Configuration | content-hosting-configuration | POST | Used to create a Content Hosting Configuration resource. |
| Retrieve Content Hosting Configuration | GET | Used to retrieve an existing Content Hosting Configuration. |
| Update Content Hosting Configuration | PUT,  PATCH | Used to modify an existing Content Hosting Configuration. |
| Destroy Content Hosting Configuration | DELETE | Used to delete an existing Content Hosting Configuration. |
| Purge Content Hosting Configuration cache | content-hosting-configuration/purge | POST | This operation is used to invalidate some or all cached media resources associated with this Content Hosting Configuration. |

END OF CHANGES