**3GPP TSG-SA WG6 Meeting #36-e S6-200388**

**E-meeting, 24th – 28th Feb 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **23.282** | **CR** | 0210 | **rev** | **-** | **Current version:** | **17.1.0** |  |
|  |
| *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:***  | Querying MCData Server to check permission for content Upload/Download |
|  |  |
| ***Source to WG:*** | Samsung |
| ***Source to TSG:*** | S6 |
|  |  |
| ***Work item code:*** | eMCData3 |  | ***Date:*** | 2020-02-18 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-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 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | The media storage functionalities are moved to standalone MCData content server from existing MCData server and content server relies on the MCData server for authentication/authorization and transmission control policies. This CR is to address the interaction between MCData content server and MCData server and to align with stage 3 procedure to include the information elements.  |
|  |  |
| ***Summary of change:*** | Included information flow and procedure for communication between MCData content server and MCData server for below cases.* File Upload
* File Download
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|  |  |
| ***Consequences if not approved:*** | There is no way for content server to check whether the incoming request is allowed and to apply the transmission control policies. |
|  |  |
| ***Clauses affected:*** | 7.5.2.1.1, 7.5.2.1.3, 7.5.2.1.28(new), 7.5.2.1.29(new),7.5.2.1.30(new), 7.5.2.1.31(new), 7.5.2.2.2, 7.5.2.3.2 |
|  |  |
|  | **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 \* \* \* \* \* \* \*

##### 7.5.2.1.28 MCData query upload data request

Table 7.5.2.1.28-1 describes the information flow for the MCData query upload data request sent from the MCData content server to the MCData server.

Table 7.5.2.1.28-1: MCData query upload data request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user uploading data |
| Content metadata | M | Metadata of the content to upload |
| Emergency indicator (see NOTE) | O | Indicates that the data request is for MCData emergency communication |

##### 7.5.2.1.29 MCData query upload data response

Table 7.5.2.1.29-1 describes the information flow for the MCData query upload data response sent from the MCData server to the MCData content server.

Table 7.5.2.1.29-1: MCData query upload data response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user requesting to upload data |
| Result | M | An indication whether the upload to the content storage is allowed or not based on the permissions, transmission control policies etc. |

##### 7.5.2.1.30 MCData query download data request

Table 7.5.2.1.30-1 describes the information flow for the MCData query download data request sent from the MCData content server to the MCData server.

Table 7.5.2.1.30-1: MCData query download data request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user downloading data |
| Emergency indicator (see NOTE) | O | Indicates that the data request is for MCData emergency communication |

##### 7.5.2.1.31 MCData query download data response

Table 7.5.2.1.31-1 describes the information flow for the MCData query download data response sent from the MCData server to the MCData content server.

Table 7.5.2.1.31-1: MCData query download data response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user requesting to download data |
| Result | M | An indication whether the download from the content storage is allowed or not based on the permissions, reception control policies etc. |

\* \* \* \* \* \* \* SECOND CHANGE \* \* \* \* \* \* \*

##### 7.5.2.2.2 Procedure

The procedure in figure 7.5.2.2.2-1 describes the case where an MCData user is uploading a file to media storage function on the MCData content server.

Pre-conditions:

1. The MCData user on the media storage client is registered for receiving MCData service.



**Figure 7.5.2.2.2-1: File upload using HTTP**

1. The user at the media storage client initiates a file upload request of the chosen file. If MCData emergency state is already set for the media storage client (due to previously triggered MCData emergency alert), the media storage client sets emergency indicator in the request. The media storage client verifies that the size of the file is within the maximum data size for FD for the intended MCData FD request (by checking the group configuration for a group FD request and by checking the service configuration for a one-to-one FD request).

2. The file to be uploaded is received by the media storage client and sent to the media storage function on the MCData content server for storing using the MCData upload data request.

3. The media storage function on the MCData content server queries the MCData server to verify whether the requesting MCData user is allowed to upload the content based on the permission and transmission control policies etc.

NOTE: Whether the requesting MCData user has the permission to upload file to the MCData content server can be validated using the access token. The authentication and authorization aspects of MCData content server storage access are the responsibility of SA3 and thus outside the scope of the present document.

4. The MCData server may apply transmission control policies based on the user profile configuration and provides a MCData query upload data response indicating success or failure.5. The MCData content server provides a MCData upload data response indicating success (along with file URL to the media storage client) or failure.

\* \* \* \* \* \* \* THIRD CHANGE \* \* \* \* \* \* \*

##### 7.5.2.3.2 Procedure

The procedure in figure 7.5.2.3.2-1 describes the case where an MCData user is downloading a file from the media storage function of the MCData content server.

Pre-conditions:

1. The MCData user on the media storage client is registered for receiving MCData service.



**Figure 7.5.2.3.2-1: File download using HTTP**

1. The user at the media storage client initiates a file download request available at the indicated URL.

2. The file available at the URL (received in MCData FD request or MCData group standalone FD request) is requested to be downloaded by the media storage client from the media storage function on the MCData content server using a MCData download data request. If emergency indicator is set in received in MCData FD request or MCData group standalone FD request, the media storage client sets emergency indicator in MCData download data request.

NOTE: the Media storage client can perform partial download requests to complete the missing parts after an incomplete transmission.

3. The media storage function on the MCData content server queries the MCData server to verify whether the requesting MCData user is allowed to download the content based on the permissions and reception control policies etc.

NOTE: Whether the requesting MCData user has the permission to download file from the MCData content server can be validated using the access token. The authentication and authorization aspects of MCData content server storage access are the responsibility of SA3 and thus outside the scope of the present document.

4. The MCData server may apply reception control policies based on the user profile configuration and provides a MCData query download data response indicating success or failure.

5. The media storage function on the MCData content server provides a MCData download data response including the file to the media storage client.

\* \* \* \* \* \* \* END CHANGES \* \* \* \* \* \* \*