**3GPP TSG-SA WG6 Meeting #36-e S6-200389**

**E-meeting, 24th – 28th Feb 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **23.282** | **CR** | 0211 | **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 removal |
|  |  |
| ***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)* |
|  |  |
| ***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 when the MCData content server receives content removal requests.  |
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| ***Summary of change:*** | Included information flow and procedure for communication between MCData content server and MCData server for the requests related to content removal |
|  |  |
| ***Consequences if not approved:*** | There is no way for content server to check whether the incoming request for the content removal action is to be allowed or not. |
|  |  |
| ***Clauses affected:*** | 7.5.2.1.32(new),7.5.2.1.33(new),7.5.2.8.2, 7.5.2.8.3, 7.5.2.8.4(new) |
|  |  |
|  | **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 \* \* \* \* \* \* \*

##### 7.5.2.1.32 MCData query remove file request

Table 7.5.2.1.32-1 describes the information flow for the MCData query remove file request sent from the media storage function of the MCData content server to MCData server.

Table 7.5.2.1.32-1: MCData query remove file request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user removing file |
| Partner MCData system identity (see NOTE) | O | The identity of the partner MCData system where the file has also been downloaded |
| Content reference | M | URL of the content to be removed |
| NOTE: The identity of the partner MCData system is present when sent from MCData content server to MCData server. |

##### 7.5.2.1.33 MCData query remove file response

Table 7.5.2.1.33-1 describes the information flow for the MCData query remove file response sent from the MCData server to the media storage function of the MCData content server.

Table 7.5.2.1.33-1: MCData query remove file response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user removing file |
| Partner MCData system identity (see NOTE) | O | The identity of the partner MCData system where the file has also been downloaded |
| Content reference | M | URL of the content to be removed |
| Result | M | An indication whether the MCData user is allowed to remove the file from the content storage or not based on the permissions |
| NOTE: The identity of the partner MCData system is present when sent from MCData content server to MCData server. |

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

##### 7.5.2.8.2 Procedure for single MCData system

The procedure in figure 7.5.2.8.2-1 describes the case where a MCData user is removing the file that was previously uploaded to the MCData content server.

Pre-conditions:

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

2. The file has been successfully uploaded by the MCData user using the procedures defined in subclause 7.5.2.2.

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**Figure 7.5.2.8.2-1: File removal using HTTP by authorised user**

1. The user on the media storage client decides to remove a file that was previously uploaded.

2. The URL of the file to be removed is included in the request sent to the media storage function on the MCData content server.

3. The media storage function on the MCData content server queries the MCData server based on operator policies to verify whether the requesting MCData user is allowed to remove the file.

NOTE: Step 4 is skipped if the MCData content server does not initiate MCData query remove file request.

4. The MCData server provides MCData query remove file response indicating success or failure.

5. The MCData content server remove the file indicated by the URL.

6. The MCData content server informs the media storage client if the file is successfully removed.

Editor's note: It is FFS if and how the recipients of the file URL need to be notified if the file is no longer available to be downloaded

##### 7.5.2.8.3 Procedure for file removal using HTTP by authorized user

The procedure in figure 7.5.2.8.3-1 describes the case where an MCData user removes the file that was previously uploaded to the primary MCData system MCData content server, and where the file has been made available in the partner MCData system MCData content server.

Pre-conditions:

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

2. The file has previously been uploaded to the MCData content server in the primary MCData system of MCData client 1.

3. The file has been successfully transferred to the MCData content server in the partner MCData system.



**Figure 7.5.2.8.3-1: File removal using HTTP by authorized user**

1. The user on the media storage client decides to remove a file that was previously uploaded.

2. The URL of the file to be removed is included in the request sent to the media storage function on the primary MCData content server.

3. The media storage function on the MCData content server queries the MCData server based on operator policies to verify whether the requesting MCData user is allowed to remove the file or not.

NOTE: Step 4 is skipped if the MCData content server does not initiate MCData query remove file request.

4. The MCData server provides MCData query remove file response indicating whether the requesting user is allowed to remove the file or not.

5. The primary MCData content server removes the file indicated by the URL.

6. As the primary MCData content server has recorded that the file has previously been sent to the partner MCData system, the primary MCData content server sends the MCData remove file request by user to the partner MCData content server, containing the URL of the file which was stored on the primary MCData content server.

7. The partner MCData content server identifies the file to be removed corresponding to the file indicated by the URL received from the Primary MCData content server and removes it.

8. The partner MCData content server informs the primary MCData content server that the file has been successfully removed.

9. The primary MCData content server informs the media storage client if the file is successfully removed.

Editor's note: It is FFS if and how the recipients of the file URL need to be notified if the file is no longer available to be downloaded

##### 7.5.2.8.4 Procedure for file removal using HTTP by authorized user from partner MCData system

The procedure in figure 7.5.2.8.4-1 describes the case where an MCData user from partner MCData system removes the file that was previously uploaded to the primary MCData system MCData content server, and where the file has been made available in the partner MCData system MCData content server.

Pre-conditions:

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

2. The file has previously been uploaded to the MCData content server in the primary MCData system of MCData client 1.

3. The file has been successfully transferred to the MCData content server in the partner MCData system.



Figure 7.5.2.8.4-1: File removal using HTTP by authorized user from partner MCData system

1. The user on the media storage client decides to remove a file that was previously uploaded.

2. The URL of the file to be removed is included in the request sent to the media storage function on the partner MCData content server.

3. As the partner MCData content server has recorded that the file has previously been sent from the primary MCData system, the partner MCData content server sends the MCData remove file request by user to the primary MCData content server. The file URL sent to the primary MCData content server is formed by removing the previously prepended URI of the partner MCData content server, such that the URL identifies the file location in the primary MCData content server.

4. The media storage function on the primary MCData content server queries the primary MCData server based on operator policies to verify whether the requesting MCData user is authorized to remove the file or not.

NOTE: Step 5 is skipped if the MCData content server does not initiate MCData query remove file request.

5. The primary MCData server provides MCData query remove file response indicating success or failure.

6. The primary MCData content server removes the file indicated by the URL.

NOTE: Step 6 may occur at any time following step 5 and before step 9.

7. The primary MCData content server informs the partner MCData content server that the file has been successfully removed.

 NOTE 1: Step 6 and step 7 may occur at same time following step 5.

 NOTE 2: Step 10 may occur following step 7 and before step 8.

8. The partner MCData content server informs the media storage client if the file is successfully removed.

9. As the primary MCData content server has recorded that the file has previously been sent to the partner MCData system, the primary MCData content server sends the MCData remove file request by user to the partner MCData content server, containing the URL of the file that was stored on the primary MCData content server.

10. The partner MCData content server identifies the file to be removed corresponding to the file indicated by the URL received from the Primary MCData content server and removes it.

11. The partner MCData content server informs the primary MCData content server that the file has been successfully removed.

NOTE 1: Step 9 to 11 may occur at any time following step 5.

NOTE 2: Step 9 to Step 11 may not be needed if only one partner MCData system is involved because the partner MCData content server can delete the file on receiving the MCData remove file response by user.

Editor's note: It is FFS to clarify who is an authorized user e.g. dispatcher in a partner system.

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