**3GPP TSG-SA WG6 Meeting #37-e S6-200646**

**e-meeting, 14th – 26th May 2020 (revision of S6-xxxxxx)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.282** | **CR** | **0213** | **rev** |  | **Current version:** | **17.2.1** |  |
|  | | | | | | | | |
| *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:*** | Add new “search folder” and “retrieve folder content” operations | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | at&t | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMCData3 | | | | |  | ***Date:*** | | | 2020-04-23 |
|  |  | | | |  | |  | | |  |
| ***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 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | A user’s message store account will contain many folders (i.e. conversatons) and a tool to allow user to search a specific folder will be useful. Once a specific folder is located, an operation is needed to present the content of that folder to the user. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Add two new procedures to search a specific folder and retrieve the content of the folder. 2. Add new inforamtion flows to supported the new procedures. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Will not be able to provide good user experience. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.13.3.1.WW (new), 7.13.3.1.XX (new), 7.13.3.1.YY (new), 7.13.3.1.ZZ (new), 7.13.3.3.AA (new), 7.13.3.3.AA.1 (new), 7.13.3.3.AA.2 (new), 7.13.3.3.BB (new), 7.13.3.3.BB.1 (new). 7.13.3.3.BB.2 (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 \* \* \* \*

##### 7.13.3.1.WW MCData search folder request

Table 7.13.3.1.WW-1 describes the information flow for the MCData search folder request sent from the message store client to the MCData message store.

Table 7.13.3.1.WW-1: MCData search folder request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user |
| Search criteria | M | Any part of the folder information (such as metadata) can be used as the search criteria. Linking multiple parts of the folder information as the search criteria is possible |

##### 7.13.3.1.XX MCData search folder response

Table 7.13.3.1.XX-1 describes the information flow for the MCData search folder response sent from the MCData message store to the message store client.

Table 7.13.3.1.XX-1: MCData search folder response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user |
| Folder identifier(s) | M | The folder(s) that meets the search criteria. This information element shall be returned as empty if there is no folder matching the search criteria |

##### 7.13.3.1.YY MCData retrieve folder content request

Table 7.13.3.1.YY-1 describes the information flow for the MCData retrieve folder content request sent from the message store client to the MCData message store.

Table 7.13.3.1.YY-1: MCData retrieve folder content request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user |
| Folder identifier | M | The identifier of the folder its content is requested to be returned |

##### 7.13.3.1.ZZ MCData retrieve folder content response

Table 7.13.3.1.ZZ-1 describes the information flow for the MCData retrieve folder content response sent from the MCData message store to the message store client.

Table 7.13.3.1.ZZ-1: MCData retrieve folder content response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCData ID | M | The identity of the MCData user |
| Folder content | M | The content of the requested folder; such as objects and subfolders. This information element shall be returned as empty if the requested folder is not found. |

\* \* \* Next Change \* \* \* \*

#### 7.13.3.AA Search folder

##### 7.13.3.AA.1 General

The message store client can search stored folder(s) with certain criteria. This procedure allows the message store client to look for folder(s) that meet certain criteria such as when the folder is created. This procedure provides the message store client the ability to locate a specific folder(s) matching the search criteria to perform further operations.

##### 7.13.3.AA.2 Procedure

The procedure in figure 7.13.3.AA.2-1 describes the case when a message store client searches and retrieves relevant stored objects from the MCData message store.

Pre-conditions:

1. A successful authentication and authorization have been performed between the message store client and the MCData message store.



Figure 7.13.3.AA.2-1: Search folder

1. The message store client wants to retrieve message store folder(s) that meet certain criteria (such as when the folder(s) was created, certain keywords etc.) and initiates a MCData search folder request toward the MCData message store. The search criteria are included in the request.

2. The MCData message store identifies all folders that match the search criteria and returns them in the MCData search folder response.

\* \* \* Next Change \* \* \* \*

#### 7.13.3.BB Retrieve folder content

##### 7.13.3.BB.1 General

An MCData user can retrieve the content of a folder in the user’s message store account. This procedure allows the message store client to retrieve the specific folder’s content from the MCData message store.

##### 7.13.3.BB.2 Procedure

The procedure in figure 7.13.3.BB.2-1 describes the case when a message store client retrieves the content of a specific folder in the MCData message store.

Pre-conditions:

1. A successful authentication and authorization have been performed between the message store client and the MCData message store.



Figure 7.13.3.BB.2-1: retrieve folder content

1. The message store client wants to retrieve the content of a specific folder and initiates a MCData retrieve folder content request toward the MCData message store. The requested folder identifier is included in the request.

2. The MCData message store locates the requested folder and returns the content of the folder (e.g. objects and subfolders) in the MCData retrieve folder content response.