**3GPP TSG-CT WG1 Meeting #132-eC1-215662**

**E-meeting, 11-15 October 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.282** | **CR** | **0259** | **rev** | **-** | **Current version:** | **17.4.0** |  |
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| *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:*** | Update synchronization notifications procedure | | | | | | | | | |
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| ***Source to WG:*** | AT&T, Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMCData3 | | | | |  | ***Date:*** | | | 2021-09-29 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Synchronization notifications procedure description as defined in subclause 21.2.16 needs to be updated to align with the newly specified MCData notification server in stage 2 (see TS 23.282 subcaluse 7.13.3.17.3 Procedure using MCData notification server) and the way it is used to pass on the MCData message store notifications to the client. | | | | | | | | |
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| ***Summary of change:*** | | 1. Updating the text in Synchronization notifications subclause (21.2.16) to account for both in-band (direct) flow of notifications from MCData message store to message store client as well indirect flow of notifications via the MCData notification server. 2. Also some editorials such as fixing typos in referrences. | | | | | | | | |
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| ***Consequences if not approved:*** | | TS 24.232 wouldn’t be aligned with 23.282. Message store client will not have a standard mechanism to receive notifications from MCData message store via MCData notification server as per stage 2 (TS 23.282).  Also the spec will be confusing for making a referrence to an incorrect subclause. | | | | | | | | |
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| ***Clauses affected:*** | | 21.2.16.1, 21.2.16.2 & 21.2.16.3 (NEW)  Note, this CR make reference to other new clauses (i.e. 21.2.X & 21.2.M) defined in another CR. | | | | | | | | |
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|  | | **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 \* \* \* \* \* \* \*

### 21.2.16 Synchronization notifications

#### 21.2.16.1 Message store function procedures

To send notifications about changes in the message store using the message store function, the MCData message store, acting as an HTTP client shall follow the procedure described in clause 6.22 of OMA-TS-REST\_NetAPI\_NMS-V1\_0-20190528-C [66] with the following clarification:

1) shall generate an HTTP POST request as specified in clause 6.22.5 of OMA-TS-REST\_NetAPI\_NMS-V1\_0-20190528-C [66] with the following clarifications:

a) shall set the Host header field using the callback URL which was previously provided by the Message store client in its corresponding subscription creation request as specified in clause 21.2.12A; and

b) shall send the HTTP POST request towards the callback URL provided by the client.

Upon receipt of an HTTP response, the message store function should follow the procedure as described in clause 6.22.2 of OMA-TS-REST\_NetAPI\_NMS-V1\_0-20190528-C [66].

#### 21.2.16.2 Message store client procedures

If the callback URL in the HTTP POST request (subclause 21.2.16.1) points to the message store client then upon receipt of the HTTP POST request from the MCData message store, as per clause 21.2.16.1, the message store client acting as an HTTP server (for such an in-band connection as described in subclause 7.13.3.17.2 of 3GPP TS 23.282[2]):

1) shall process the HTTP POST request by following the procedures described in clause 6.22.5 of OMA-TS-REST\_NetAPI\_NMS-V1\_0-20190528-C [66];

a) either use the notification content and the reported "restartToken" and "index" as specified in clause 5.1.5.1 of OMA-TS-REST\_NetAPI\_NMS-V1\_0-20190528-C [66] to have the client’s local message store updated accordingly; or

b) use the notification as a trigger to subsequently search the MCData message store for the list of changes as specified in clause 21.2.17; and

2) shall generate and send an HTTP response towards the message store function indicating the result of the operation as per clause 6.22.2 of OMA-TS-REST\_NetAPI\_NMS-V1\_0-20190528-C [66].

NOTE: The notifications about changes in the MCData message store can be used by the message store client to synchronize its local message store with the MCData message store in two distinguished ways which are listed in sub-bullets "a" and "b" above.

If however, the Message store client is not using an in-band connection with the MCData message store to receive notifications and has instead created a notification channel with the MCData notification server (see subclause 7.13.3.17.3 of 3GPP TS 23.282[2]) as described in clause 21.2.X, then the message store client shall not follow the procedure in this subclause and instead follow the procedure described in clause 21.2.M "Open notification channel" in order to start receiving the notifications (about changes in the message store).

#### 21.2.16.3 MCData Notification server procedures

If the callback URL in the HTTP POST request, as described in clause 21.2.16.1, points to the MCData Notification server then upon receipt of the request from the MCData message store, the MCData notification server acting as an HTTP server as per subclause 7.13.3.17.3 of 3GPP TS 23.282[2]:

1) shall process the HTTP POST request; and

2) shall make the notifications available to the message notification client (and hence the Message store client) through the associated channel which was previously created and as need be opened (see clause 21.2.X and clause 21.2.M).

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