**3GPP TSG-SA WG6 Meeting #54-e S6-231251**

**17th – 26th April 2023 (revision of S6-23xxxx)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.434** | **CR** | **0197** | **rev** | **-** | **Current version:** | **18.4.1** |  |
|  | | | | | | | | |
| *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 |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Notification channel expiry handling | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eSEAL2 | | | | |  | ***Date:*** | | | 2023-04-11 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Currently there is no mechanism specified for extending the life time of the active notification channel between the NMC and NMS. It is required to add the procedure for extending the life time of the active notification channel so that it sets the direction for the stage-3 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Procedure to update the expiry time of the notification channel is added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Might cause problem in stage 3 implementation. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 17.3.2.X Update notification channel request

Table 17.3.2.X-1 describes the information flow Update notification channel request from notification management client to the notification management server.

Table 17.3.2.X-1: Update notification channel request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Requestor identity | M | Identity of the requesting notification management client |
| Channel ID | M | Identifies the notification channel to be updated |
| Validity Duration | O | How long the notification channel will last (i.e. channel lifetime) as requested by the notification management client. |

#### 17.3.2.Y Update notification channel response

Table 17.3.2.Y-1 describes the information flow Update notification channel request from notification management server to the notification management client.

Table 17.3.2.Y-1: Update notification channel response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Validity duration | O | How long the notification channel will last (i.e. channel lifetime) as granted by the notification management server. |
| Channel ID | M | Channel ID received in the update notification channel request |
| Result | M | Indicates if updating of the channel is success or failure |

\* \* \* Next change \* \* \* \*

### 17.3.X Procedure for updating notification channel

Figure 17.3.X-1 below illustrates the procedure for updating the notification channel by the notification management client.

Pre-conditions:

1. The notification management client has notification channel open with the notification management server.



Figure 17.3.X-1: Updating notification channel by the notification management client

1. The notification management client detects the expiry timer of the active notification channel being approached and a need for updating the new expiry time on notification management server.

2. To update notification channel, the notification management client sends an update notification channel request to the notification management server with the proposed new validity duration for the active channel.

3. The notification management server authenticates the notification management client and authorizes its request.

4. The notification management server checks whether the new proposed expiry timer is valid or not. The NMS may accept the proposed validity duration from the request or assign a different validity duration based on the local policy.

5. The notification management server sends the notification management client the Update notification channel response with the valid duration for this active notification channel. The notification management client shall store the new valid duration of the notification management channel.