**3GPP TSG-SA WG6 Meeting #39-e S6-201340**

**e-meeting, 31st August – 8th September 2020 (revision of S6-xxxxxx)**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** | **0262** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *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:*** | Clarification to location information cancel subscription | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | BDBOS | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh3MCPTT | | | | |  | ***Date:*** | | | 2020-09-04 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **C** |  | | | | | ***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:*** | | The current Location information cancel subscription request in clause 10.9.2.8 as well as Location information cancel subscription response in clause 10.9.2.9 do not differentiate between the subscribed MC service user and the requesting MC service user, so that all MC service users would be able to cancel a specific location information subscription.  The current Location information cancel subscription procedure in clause 10.9.3.7 does not confirm the authorisation of Location information cancel subscription request described in clause 10.9.2.8.  Adding more information to clause 10.9.2.8 and 10.9.2.9, in order to visualize the differences. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarification to the authorisation in case of a Location information cancel subscription request as well as more details. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | All MC service users would be able to cancel a specific location information subscription. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.9.2.8, 10.9.2.9, 10.9.3.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 10.9.2.8 Location information cancel subscription request

Table 10.9.2.8-1 describes the information flow from the MC service server to the location management server for location information cancel subscription request.

Table 10.9.2.8-1: Location information cancel subscription request (MC service server – LMS)

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID list | M | List of identities of the MC service users for whom location information is no longer required |

Table 10.9.2.8-2 describes the information flow from the location management client to the location management server for location information cancel subscription request.

Table 10.9.2.8-2: Location information cancel subscription request (LMC – LMS)

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID (NOTE 1) | M | Identity of the requesting MC service user |
| MC service ID (NOTE 2) | O | Identity of the MC service user, whose subscription is to be cancelled |
| MC service ID list | M | List of identities of the MC service users for whom location information is no longer required |
| NOTE 1: Authorized or subscribed MC service user.  NOTE 2: Only used with the authorized MC service user. | | |

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

#### 10.9.2.9 Location information cancel subscription response

Table 10.9.2.9-1 describes the information flow from the location management server to the MC service server for location information cancel subscription response.

Table 10.9.2.9-1: Location information cancel subscription response (LMS – MC service server)

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID list (NOTE) | M | List of identities of MC service users, whose subscription have been requested to be cancelled |
| Subscription response (NOTE) | M | Indicates the cancel subscription result |
| NOTE: Only cancelled subscriptions listed. | | |

Table 10.9.2.9-2 describes the information flow from the location management server to the location management client for location information cancel subscription response.

Table 10.9.2.9-2: Location information cancel subscription response (LMS – LMC)

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID | M | Identity of the requesting MC service user |
| MC service ID (NOTE 1) | O | Identity of the MC service user, whose subscription have been requested to be cancelled |
| MC service ID list (NOTE 2) | M | List of identities of MC service users for whom location information is no longer required |
| Subscription response (NOTE 2) | M | Indicates the cancel subscription result |
| NOTE 1: Only used with the authorized MC service user.  NOTE 2: Only cancelled subscriptions listed. | | |

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

#### 10.9.3.7 Location information cancel subscription procedure

NOTE: This procedure is valid for single MC system operation only.

Figure 10.9.3.7-1 illustrates the high level procedure of location information cancel subscription request. The MC service server or the location management client can request the cancellation of location information subscriptions at any time from the location management server.

Pre-conditions:

- The authorized MC service user is in possession of the MC service ID of the MC service user as well as the location information subscriptions of this MC service ID.



Figure 10.9.3.7-1: Location information cancel subscription request procedure

1. MC service server or location management client sends a location information cancel subscription request to the location management server to cancel the subscription for location information of one or more MC service users.

2. The location management server checks the authorization of this request.

NOTE: Whether the authorization check is a specific check of the requesting MC service user or is a general policy check is outside the scope of this procedure.

3. The location management server replies with a location information cancel subscription response indicating the cancel subscription status.

\* \* \* End of Change \* \* \* \*