**3GPP TSG-SA WG6 Meeting #63 S6-244406**

**Hyderabad, India, 14th – 18th October 2024 (revision of S6-244251)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **23.280** | **CR** | **0605** | **rev** | **1** | **Current version:** | **19.4.0** |  |
|  | | | | | | | | |
| *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:*** | Client-triggered location reporting cancel procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enhMC | | | | |  | ***Date:*** | | | 2024-10-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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:*** | | If an authorized MC service user is interested in obtaining the location information of other MC service user based on the trigger conditions can use the existing procedure specified in the specification, where in authorized MC service user using location management client sends a location reporting trigger to the location management server to activate a location reporting procedure for obtaining the location information of another location management client. If an authorized MC service user is no longer interested in obtaining the location information of other MC service user based on the trigger should be able to deactivate a location reporting procedure by sending location reporting trigger cancel request to the location management server. Currently there are no procedure exists for location management client to send such cancelation request and to deactivate the location reporting procedure. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A new procedure is specified for the location management client to send a location reporting trigger cancel to the location management server to deactivate a location reporting procedure for obtaining the location information of another location management client.  10.9.2.4a: A new information flow “Location reporting trigger cancel” is defined.  10.9.3.4a: A new procedure is defined for the location management client for location reporting trigger cancelation  10.9.3.8.3: A new procedure is defined for the location management client for location reporting trigger cancelation, where in the target of the request is functional alias  10.9.3.4: Changing the heading to indicate that the procedure is for the Event-triggered and align with other procedure headings of Event-triggered  10.9.3.8.2: The NOTE 1 and NOTE 2 are updated to refer respective procedures when functional alias is newly activated or deactivated  Revision changes :  Added group ID list as part of cancel information flow  Added procedure for location reporting cancel for group ID with modification  Renamed the title for functional alias reporting trigger cancel procedure and other procedures.  Removed the changes to 10.9.3.8.2 since its conflicting with 244055 | | | | | | | | |
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| ***Consequences if not approved:*** | | The location management client will be reporting the location based on the trigger even if the requested location management client is no longer interested in obtaining the location, and also the location reporting trigger configurations are maintained unnecessarily. | | | | | | | | |
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| ***Clauses affected:*** | | 10.9.2.4a (new), 10.9.3.4a (new), 10.9.3.8.3 (new), 10.9.3.4, 10.9.3.8.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 10.9.2.4a Location reporting trigger cancel

Table 10.9.2.4a-1 describes the information flow from the location management client to the location management server to stop triggering a location reporting procedure.

Table 10.9.2.4a-1: Location reporting trigger cancel

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID | M  (see NOTE 1) | Identity of the requesting authorized MC service user (e.g. MCPTT ID, MCVideo ID, MCData ID) |
| Functional alias | O | Functional alias that corresponds to the requesting MC service user (e.g. MCPTT ID, MCVideo ID, MCData ID) |
| MC service ID list | O  (see NOTE 1)  (see NOTE 2) | List of MC service users whose location information reporting is to be cancelled (e.g. MCPTT ID, MCVideo ID, MCData ID) |
| MC service group ID list | O  (see NOTE 2) | Group ID(s) that correspond MC service user(s) whose location reporting triggers are to be cancelled (e.g. MCPTT ID, MCVideo ID, MCData ID). (see NOTE 3) |
| Functional alias | O  (see NOTE 2) | Functional alias that corresponds to the MC service users whose location information reporting is to be cancelled (e.g. MCPTT ID, MCVideo ID, MCData ID). |
| NOTE 1: The identity of the requesting MC service user and the requested MC service user shall belong to the same MC service. E.g. if requesting MC service user is using a MCPTT ID, then the requested MC service user identity shall be an MCPTT ID.  NOTE 2: Any one of these information elements shall be present.  NOTE 3: Location reporting trigger cancel request is applicable only for the currently affiliated users to the group(s). | | |

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

#### 10.9.3.4a Client-triggered location reporting cancel procedure targeting MC service user(s)

NOTE 1: This procedure is valid for single MC system operation only.

Figure 10.9.3.4a-1 illustrates the high level procedure of client-triggered location reporting cancel procedure.

Pre-conditions:

- The location management client 1 has provided the location reporting trigger for the location management client 2.



Figure 10.9.3.4a-1: Client-triggered location reporting cancel procedure

1. Location management client 1 (authorized MC service user) sends a location reporting trigger cancel request to the location management server to deactivate a location reporting procedure for obtaining the location information of location management client 2.

2. Location management server checks whether location management client 1 is authorized to send a location reporting trigger cancel request for location management client 2's location information. If authorized, location management server initiates a location reporting cancel procedure for the location management client 2 as specified in the clause 10.9.3.4.

NOTE 2: The location management server instead of cancelling the location reporting of location management client 2 can update the location reporting configuration if the location management client 2 is configured to report its location information based on the location reporting trigger received from other location management clients also other than location management client 1.

NOTE 3: The location management client (authorized MC service user) can cancel other location management clients (authorized MC service user) provided location reporting trigger for reporting location information.

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

#### 10.9.3.4b Client-triggered location reporting cancel procedure targeting MC service group(s)

NOTE 1: This procedure is valid for single MC system operation only.

Figure 10.9.3.4b-1 illustrates the high level procedure of client-triggered location reporting cancel procedure targeted to the MC service group(s).

Pre-conditions:

- The location management client 2 has provided the location reporting trigger for the MC service group(s).

- The location management server has subscribed to the dynamic data associated with the target MC service group(s).



**Figure 10.9.3.4b-1: Client-triggered location reporting cancel procedure targeting MC service group(s)**

1. Location management client 2 (authorized MC service user) sends a location reporting trigger cancel request to the location management server to deactivate a location reporting procedure for obtaining the location information from the affiliated members of the MC service group(s).

2. Location management server checks whether location management client 2 is authorized to send a location reporting trigger cancel request for MC service group(s). If authorized, the location management server initiates the location reporting cancel procedure as specified in the clause 10.9.3.4 for the location management client(s) of the MC service user(s) affiliated to the MC service group(s) received in step 1.

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

##### 10.9.3.8.3 Client-triggered location reporting cancel procedure targeting functional alias(es)

Figure 10.9.3.8.3-1 illustrates the procedure where a location management client requests to cancel the location reporting triggers targeted to the functional aliases which may be shared between several MC service users.

Pre-conditions:

1. MC service users at location management client 2 and location management client 3 share the same functional alias.

2. MC service users at location management client 2 and location management client 3 activated the functional alias.

3. MC service user at location management client 1 may have an activated functional alias.

4. The location management server has subscribed to the functional alias controlling MC service server within the MC system for functional alias activation/de-activation updates.



Figure 10.9.3.8.3-1: Periodic location information report cancellation for shared functional alias

1. Location management client 1 (authorized MC service user) sends a location reporting trigger cancel request, limited to one MC service at the time, to the location management server to deactivate a periodic location reporting procedure which shall retrieve the location information of the MC service users sharing the contained functional alias. Location management client 1 may include its own activated functional alias.

2. Location management server checks whether location management client 1 is authorized to send a location reporting trigger cancel request for location information of the location management clients that have activated the functional alias. The location management server determines the functional alias to a corresponding list of related MC service IDs of location management client 2 and location management client 3 who have activated the functional alias.

3a-3b. Location management server initiates a location reporting cancel procedure for the location management client 2 and location management client 3 as specified in the clause 10.9.3.4

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

#### 10.9.3.4 Event-triggered location reporting cancel procedure

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

The event-triggered location reporting cancel procedure reuses the information flow of location reporting configuration.

Pre-conditions:

- The location management client has been provided with location reporting configuration information.



Figure 10.9.3.4-1: Event-triggered location reporting cancel procedure

1. The location management server sends location reporting configuration without any information element to the location management client to stop location reporting from the MC service UE.

2. The location management client stops sending location information reports to the location management server.

\* \* \* \* End of changes \* \* \* \*