**3GPP TSG-SA WG6 Meeting #54-e S6-23xxxx**

**17th – 26th April 2023 (was S6-231164)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** | **0369** | **rev** | **1** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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:*** | User Location Authorization and Profile | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | FirstNet, Kyonggi University, KT | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh4MCPTT | | | | |  | ***Date:*** | | | 2023-04-17 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Authorization of a MC user to obtain the location of another MC user is mentioned in existing text in TS 23.280 but is not substantiated.  The existing procedures indicate that the MC user whose location is to be reported is to be queried whether to supply that location information. However, this approach does not support an authorized user obtaining the location of an MC user whenever desired. Further, existing procedures could put a burden on an MC user to constantly have to accept requests for their location information – an unnecessary burden when the fire fighter or police officer is concentrating on life saving matters.  A location database needs to be defined.  Since the list of MC users that have activated a functional alias (FA) may change during the time that an authorized MC user has set a trigger for location reporting relative to the FA, authorization of the requesting user to receive location information for all MC users that have activated the FA needs to be repeated each time a trigger occurs.  When cancelling location reporting triggers at the request of an authorized MC user, the LMS needs to check whether other authorized MC users have also set triggers. If so, the trigger may not be cancelled at the LMC.  Some procedures use a single final step that obscures all of the sub-parts of the procedure included in that final step. These need to be made more explicit.  The elements of the user location profile need to be specified. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The authorization text in clause 10.9.3 procedures is modified to remove the check with the targeted MC user to agree to send their location information when the LMS has already determined that the requesting user is authorized to have that location information.  The User Location Profile is specified.  Authorization of the requesting user to receive location information for all MC users that have activated the FA is repeated each time a trigger occurs.  When cancelling location reporting triggers at the request of an authorized MC user, the LMS checks whether other authorized MC users have also set triggers. If so, the trigger may not be cancelled at the LMC.  Some procedures use a single final step that obscures all of the sub-parts of the procedure included in that final step. These are made more explicit. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Authorization of MC user location requests will not be possible. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.9.3.2, 10.9.3.3, 10.9.3.6.1, 10.9.3.8.1, 10.9.3.8.2, 10.9.3.9.1, 10.9.3.9.4.3, 10.9.3.10.2, 10.9.3.10.3, 10.9.3.10.4, 10.9.3.10.5, 10.9.3.10.6, A.3, (new) A.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **N** | Other core specifications | | | | TS/TR … CR … | | |
| ***affected:*** | |  | **N** | Test specifications | | | | TS/TR … CR … | | |
| ***(show related CRs)*** | |  | **N** | O&M Specifications | | | | TS/TR … CR … | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev 1:   * Corrected a reference in Annex A.8 from CSC-13 to CSC-24. * Removed an extraneous reference to table A.8-2 that does not exist. * Removed the intermediate nodes for "MC User ID" in Table A.8-1. * In 10.9.3.8.1 step 2, added "of" in the new text. * Added Kyonggi University and KT as cosigners. * In A.8 the reference to obtaining the location user profile configuration data from the configuration management server. * Added "of an authorized user in step 1 in 10.9.3.2 * In step 4 of 10.9.3.9.4.3 changed "needing" to "requesting". * In Table A.8-1 changed NOTE 1 to delete the reference to MC User ID | | | | | | | | |

**\* \* \* \* \* FIRST CHANGE \* \* \* \* \***

#### 10.9.3.2 On-demand location reporting procedure

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

The location management server can request MC service UE location information at any time by sending a location information request to the location management client, which may trigger location management client to immediately send the location report.



Figure 10.9.3.2-1: On-demand location information reporting procedure

1. Based on configurations such as periodical location information timer, or location information request from other entities (e.g., another location management client of an authorized user, MC service server), location management server initiates the immediate request of location information to be sent from the location management client.

2. The location management server sends a location information request to the location management client.

3. The location management client immediately responds to the location management server with a report containing location information identified by the location management server and available to the location management client.

4. Upon receiving the report, the location management server updates location of the reporting location management client. If the location management server does not have location information of the reporting location management client, the location management server just stores the reporting location information for that location management client. If the location information report contains an optional MC service UE label, the location management server stores it together with the location information for the reporting location management client.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

#### 10.9.3.3 Client-triggered location reporting procedure

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

Figure 10.9.3.3-1 illustrates the high level procedure of client-triggered location reporting.



Figure 10.9.3.3-1: Client-triggered location reporting procedure

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

2. Location management server checks whether location management client 2 is authorized to send a location reporting trigger for location management client 1's location information. Depending on the information specified by the location reporting trigger, location management server initiates an on-demand location reporting procedure or an event-triggered location reporting procedure for the location of location management client 1.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.6.1 Event-trigger location information notification procedure

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

Figure 10.9.3.6.1-1 illustrates the high level procedure of event-trigger usage of location information. The same procedure can be applied for location management client and other entities that would like to subscribe to location information of MC service user.

Pre-condition:

1. The MC service server or location management client has subscribed to the location information of a target MC service user.



Figure 10.9.3.6.1-1: Event-trigger usage of location information procedure

1. Based on configuration, e.g., subscription, periodical location information timer, the location management server is triggered to report the latest user location information of the target MC service user to the subscribed MC service server or subscribed location management client. The location management server has verified that the subscribed MC service server or subscribed location management client is authorized to receive the user location information of the target MC service user.

2. The location management server sends the location information notification including the latest location information of one MC service user to the MC service server or to the location management client. The latest location information is derived from the location report procedure as described in clause 10.9.3.1, or from PLMN operator (e.g. LCS network). If the optional MC service UE label is present, the location management server sends it, as part of the location information notification, to the MC service user.

NOTE 2: The MC service server does not receive the MC service UE label.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.8.1 Client-triggered one-time location information report

Figure 10.9.3.8.1-1 illustrates the procedure when a location management client requests one-time location information from other location management clients for location information reporting using functional alias, which can be shared between several MC service users. Under this condition, the actual location of all MC service users sharing the same functional alias are reported.

Pre-conditions:

1. MC service client 2 and MC service client 3 share the same functional alias.

2. MC service client 2 and MC service client 3 activated the functional alias.

3. MC service 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 10.9.3.8.1-1: One-time location information report for shared functional alias

1. Location management client 1 sends a location reporting trigger, limited to one MC service at the time, to the location management server to activate a one-time location report procedure which shall retrieve the location information of the MC service users that may share 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 for location information of location management clients 2 and 3.

3. The location management server uses on-demand location reporting procedures. The location information request contains the functional alias provided by the location management client 1 to address location management client 2 and location management client 3.

4. Upon receiving the report, the location management server updates location of the reporting location management clients. If the location management server does not have location information of a reporting location management client before, then just stores the reporting location information for that location management client.

5. The location management server sends location report responses to location management client 1 containing the provided location information for each location management client using the given functional alias. If the optional MC service UE label is present, the location management server sends it, as part of the location report response to location management client 1. If not all location management clients immediately respond to the location management server, i.e. other reports some time later, subsequent location reporting responses may be sent.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.8.2 Client-triggered periodic location information report

Figure 10.9.3.8.2-1 illustrates the procedure when a location management client requests periodic location information from other location management clients for location information reporting using functional aliases which may be shared between several MC service users. Under this condition, the actual location of all MC service users sharing the same functional alias are reported.

Pre-conditions:

1. MC service client 2 and MC service client 3 share the same functional alias.

2. MC service client 2 and MC service client 3 activated the functional alias.

3. MC service 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 10.9.3.8.2-1: Periodic location information report for shared functional alias

1. Location management client 1 sends a location reporting trigger, limited to one MC service at the time, to the location management server to activate 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 for location information for location management clients that have activated the functional alias.

3. Depending on the information given by the location reporting trigger, the location management server uses event-triggered location information procedure and immediately send location information request to the location management clients that contains the functional alias requested by the location management client 1.

4. Upon receiving the reports, the location management server updates location of the reporting location management clients.

5. The location management server checks whether location management client 1 is authorized to receive location information for all location management clients that have activated the functional alias.

6. Based on the received location information reports, the location management server will periodically issue location report responses, one at a time for each location management client for which location management client 1 is authorized to receive location information, encompassing the MC service ID, the associated functional alias, the individual location information of the addressed MC service ID and the optional MC service UE label, if present.

NOTE 1: If a functional alias is deactivated for an MC service client, the corresponding location management client stops sending periodic location information reports.

NOTE 2: If a functional alias has been newly activated for an MC service client, the location management server activates location information reporting for this location management client.

NOTE 3: If a functional alias is simultaneously shared between several MC service IDs, all location management clients with the associated MC service IDs will send the location report until the functional alias status change, e.g. take-over, for the individual MC service ID.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.9.1 General

The location management client may get into a state where it cannot report location information to the location management server at any time after the initial location reporting configuration was provided by the location management server. If any location information trigger criterion applies, while not reporting location information to the location management server, the location management client stores the corresponding location information.

Trigger criteria while not reporting location information to the location management server may vary from trigger criteria while reporting location information to the location management server. Such trigger criteria may for example include not reported distance travelled, not reported elapsed time, not reported call initiation, not reported emergency alert, not reported emergency group call, not reported imminent peril group call and not reported emergency private call.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

###### 10.9.3.9.4.3 Cancel location history reporting procedure

Figure 10.9.3.9.4.3-1 illustrates the procedure for the cancellation on location history reporting from the MC service server or location management client to the location management server.

Pre-conditions:

1. The location management client 1 has returned to report location information and has stored location information reports.



Figure 10.9.3.9.4.3-1: Cancel location history reporting procedure

1. The location management client 1 transmits stored location information while there is a communication link between the location management client and location management server.

2. The MC service server or location management client 2 requests the cancellation of the location information history reporting at any time during the transmission.

3. The location management server checks the authorization of this request and decides whether to cancel the transmission from the reporting location management client 1 as described in clause 10.9.3.9.4.2, to cancel the transmission from the location management server or to cancel the transmission from both.

4. If there are no other authorized location management clients requesting the location history of location management client 1, the location management server executes the requested cancellation.

5. Location management server confirms the executed cancellation.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.10.2 On-demand request of location information procedure

The MC service server or location management client in the primary MC system can request MC service user's location information, which is in the partner MC system, at any time by sending a location information request to the location management server at primary MC system.

Figure 10.9.3.10.2-1 illustrates the high level procedure of on-demand request of location information.



Figure 10.9.3.10.2-1: On-demand request of location information procedure

1. The MC service server or a location management client in the primary MC system requests on-demand location information of MC service user located in the partner MC system.

2. The location management server in the primary MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 1: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

3. The location management server in the primary MC system determines that the request has a target in a different MC system.

4. The location management server in the primary MC system sends the on-demand location information request to the location management server in the partner MC system.

5. The location management server in the partner MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 2: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

6. The location management server at partner MC system updates the location information, according to the procedure described in clause 10.9.3.2 or provides stored location information, based on the configuration for on-demand requests.

7. The location management server in the partner MC system sends the location information report, described in clause 10.9.2.2, to the MC service server in the primary MC system.

8. If the requesting location information management client is still authorized to receive the location report, the location management server in the primary MC system sends the location information report to the requesting location information management client.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.10.3 Event-triggered location information notification procedure

The location management client in the partner MC system provides, based on configuration, periodic location information, which will be also forwarded to the subscribed entities.

Figure 10.9.3.10.3-1 illustrates the high level procedure of event-triggered sharing of location information.



Figure 10.9.3.10.3-1: Event-triggered location information notification procedure

1. The location management client in the partner MC system is triggered, based on configuration, to send a location information report, according to described triggers in clause 10.9.3.1.

2. The location management server in the partner MC system checks if the provided information along with the configuration permit the report to proceed.

NOTE 1: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

3. The location management server in the partner MC system determines that the report has a target in a different MC system.

4. The location management server in the partner MC system sends the location information notification to the location management server in the primary MC system, according to the described information flow in clause 10.9.2.7.

5. The location management server in the primary MC system checks if the location management client is authorized to receive the location information and forwards the received location information, according to the procedure described in clause 10.9.3.6.1.

NOTE 2: As the MC service server is implicitly trusted, the Location management server needs not to check the authorization for the MC service server.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.10.4 Location information subscription procedure

The location management client in the partner MC system provides, based on configuration, event triggered location information, which will be also forwarded to the subscribed entities.

Figure 10.9.3.10.4-1 illustrates the high level procedure of subscription to location information between interconnected MC systems.



Figure 10.9.3.10.4-1: Location information subscription procedure

1. The MC service server or the location management client in the primary MC system request subscription to event-triggered location information of MC service users in the partner MC system by sending a location information subscription request to the location management server in the primary MC system, according to the described information flows in clause 10.9.2.5.

2. The location management server in the primary MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 1: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

3. The location management server in the primary MC system determines that the request has a target in a different MC system.

4. The location management server in the primary MC system sends the location information subscription request to the location management server in the partner MC system, according to the described information flow in clause 10.9.2.5.

5. The location management server in the partner MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 2: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

6. The location management server in the partner MC system applies the subscription.

7. The location management server in the partner MC system sends the location information subscription response to the location management server in the primary MC system.

8. The location management server in the primary MC system sends the location information subscription response to the requesting entity in the primary MC system, according to the described information flow in clause 10.9.2.6.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.10.5 Location information cancel subscription procedure

The location management client in the primary MC system receives location information updates according to the subscriptions requested in the partner MC system. Those subscriptions can be cancelled anytime from the primary MC system.

Figure 10.9.3.10.5-1 illustrates the high level procedure of the subscription cancellation to location information between interconnected MC systems.



Figure 10.9.3.10.5-1: Location information cancel subscription procedure

1. The MC service server or the location management client in the primary MC system request the cancellation of subscriptions to event-triggered location information of MC service users in the partner MC system by sending location information cancel subscription requests to the location management server in the primary MC system, according to the described information flows in clause 10.9.2.8.

2. The location management server in the primary MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 1: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

3. The location management server in the primary MC system determines that the request has a target in a different MC system.

4. The location management server in the primary MC system sends the location information cancel subscription request to the location management server in the partner MC system, according to the described information flow in clause 10.9.2.8.

5. The location management server in the partner MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 2: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

6. The location management server in the partner MC system cancels the subscription.

7. The location management server in the partner MC system sends the location information cancel subscription response to the location management server in the primary MC system.

8. The location management server in the primary MC system sends the location information cancel subscription response to the requesting entity in the primary MC system, according to the described information flow in clause 10.9.2.9.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

##### 10.9.3.10.6 Location reporting temporary configuration procedure

An authorized MC service user in the primary MC system in charge of MC service users either currently completely or partially operating in a partner MC system is able to configure event-based location information for the involved MC service users at any time by sending configuration parameters. Those configuration parameters are temporarily used, while the configuration parameters of the primary MC system are reinstated either by the configuration expiration criteria or by request from the authorized MC service user.

Figure 10.9.3.10.6-1 illustrates the high level procedure of location reporting temporary configuration procedure.



Figure 10.9.3.10.6-1: Location reporting temporary configuration procedure

1. The location management client in the primary MC system requests to configure the location reporting of MC service user(s) located in the partner MC system.

2. The location management server in the primary MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 1: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

3. The location management server in the primary MC system determines that the request has a target in a different MC system.

4. The location management server in the primary MC system sends the location reporting temporary configuration request to the location management server in the partner MC system.

5. The location management server in the partner MC system checks if the provided information along with the configuration permit the request to proceed.

NOTE 2: Whether the authorization check is a specific MC service user based check or is a general policy check is outside the scope of this procedure.

6. The location management server in the partner MC system forwards the location reporting temporary configuration request to the location management client in the partner MC system. The location management server in the partner MC system may adjusts the configuration parameters.

7. The location management client in the partner MC system applies the temporary configuration parameters and stores the original configuration parameters as well as sets the configuration expiration criteria.

8. The location management client in the partner MC system sends the location reporting temporary configuration response to the location management server in the partner MC system. The location reporting temporary configuration response includes the full status report on all configuration parameters, even if only one configuration parameter has received a request of adaptation.

9. The location management server in the partner MC system sends the location reporting temporary configuration response to the location management server in the primary MC system.

10. The location management server in the primary MC system sends the location reporting temporary configuration response to the location management client in the primary MC system.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

# A.3 MC service user profile configuration data

The MC service user profile configuration data is stored in the MC service user database. The configuration management server is used to configure the MC service user profile configuration data to the MC service user database (CSC-13) and MC service UE (CSC-4).

MC service user profile configuration data can be configured offline using the CSC-11 reference point.

MC service user profile configuration data is specific to each MC service and is specified as follows:

- MCPTT user profile configuration data is specified in 3GPP TS 23.379 [16];

- MCVideo user profile configuration data is specified in 3GPP TS 23.281 [12];

- MCData user profile configuration data is specified in 3GPP TS 23.282 [13]; and

- Location user profile configuration data is specified in clause A.8.

**\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

# A.8 Location user profile configuration data

The location user profile configuration data is stored in the location user database. The location management server obtains the location user profile configuration data via the configuration management server (CSC-24).

Tables A.8-1 contains the location user profile configuration required to support the use of on-network location service. Data in table A.8-1 can be configured offline using the CSC-11 reference point.

Table A.8-1: location user profile data (on and off network)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reference | Parameter description | Location UE | Location Server | Configuration management server | Location user database |
| [R-5.11-007] of 3GPP TS 22.280 [3]  Clause 10.9.3.3 | Authorization to set a trigger at a LMC |  |  |  |  |
|  | > List of MC service IDs for which a trigger is authorized to be set | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | > List of MC service IDs for which a trigger is not authorized to be set | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | Default authorization state for setting a trigger at another LMC (see NOTE 2) | Y | Y | Y | Y |
| [R-5.11-008] of 3GPP TS 22.280 [3] | Authorization to cancel a trigger at a LMC |  |  |  |  |
|  | > List of MC service IDs for which a trigger is authorized to be cancelled | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | > List of MC service IDs for which a trigger is not authorized to be cancelled | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | Default authorization state for cancelling a trigger at another MC user (see NOTE 2) | Y | Y | Y | Y |
| Clause 10.9.3.5  Clause 10.9.3.7 | Authorization to subscribe to location information for an MC user |  |  |  |  |
|  | > List of MC service IDs for which subscription and subscription cancellation is authorized | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | > List of MC service IDs for which subscription and subscription cancellation is not authorized to be set | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | Default authorization state for subscription and subscription cancellation for another MC user (see NOTE 2) | Y | Y | Y | Y |
| Clause 10.9.3.6.2  Clause 10.9.3.7 | Authorization to obtain location information for an MC user |  |  |  |  |
|  | > List of MC service IDs for which obtaining location information is authorized | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | > List of MC service IDs for which obtaining location information is not authorized to be set | Y | Y | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | Y | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | Y | Y | Y |
|  | Default authorization state for obtaining location information for another MC user (see NOTE 2) | Y | Y | Y | Y |
| Clause 10.9.3.10.6  Clause 10.9.3.11 | Authorization to modify the location user profile of an MC user |  |  |  |  |
|  | > Modification to the location user profile is permanent/temporary | Y | N | Y | Y |
|  | >> Duration of time for temporary modification | Y | N | Y | Y |
|  | > List of MC service IDs for which modifying the location reporting configuration is authorized | Y | N | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | N | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | N | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | N | Y | Y |
|  | > List of MC service IDs for which modifying the location reporting configuration is not authorized | Y | N | Y | Y |
|  | >> MCPTT ID (see NOTE 1) | Y | N | Y | Y |
|  | >> MCVideo ID (see NOTE 1) | Y | N | Y | Y |
|  | >> MCData ID (see NOTE 1) | Y | N | Y | Y |
|  | Default authorization state for modifying the location reporting configuration for another MC user (see NOTE 2) | Y | N | Y | Y |
| NOTE 1: There can be zero or more.  NOTE 2: The default authorization applies to all MC users not listed as specifically authorized or not authorized. The intent of this parameter is to avoid having to list all MC users as specifically authorized or not authorized and allowing the administrator to only indicate specific authorization statuses. | | | | | |

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