**3GPP TSG- Meeting #61 *S6-242021***

**Jeju, South Korea, -**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | 3 | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | MC Group ID(s) for location information request, subscription and cancellation of Location information | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | Control Rooms and Dispatchers have requested that group based features are supported for Location in the MC architecture. This document is proposing to include some missing aspects in TS23.280, i.e., MC Group ID(s) for location subscription and cancellation in Location information | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The changes relate to adding Information Elements (IEs) to the information flow tables and procedures in sections 10.9.2 and 10.9.3 of TS 23.280. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The group based, dynamic location reporting behaviour requested by the Control Rooms and Dispatchers of emergency services cannot be supported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.9.2.3, 10.9.2.5, 10.9.2.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 10.9.2.3 Location information request

Tables 10.9.2.3-1, 10.9.2.3-2 and 10.9.2.3-3 describe the information flow from the MC service server to the location management server and from the location management server to the location management client and from location management client to location management server respectively for requesting an immediate location information report.

Table 10.9.2.3-1: Location information request (MC service server to location management server)

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID list | O  (see NOTE) | List of MC service users whose location information is requested |
| Functional alias | O  (see NOTE) | Location information of MC service users who have activated this functional alias is requested |
| NOTE: Either the MC service ID list or the functional alias must be present. | | |

Table 10.9.2.3-2: Location information request (Location management server to location management client)

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID | M | Identity of MC service user whose location information is requested |
| MC service ID | O | Identity of the requesting MC service user (e.g. MCPTT ID, MCVideo ID, MCData ID) |
| Functional alias | O | Functional alias that corresponds to the requested 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) |

Table 10.9.2.3-3: Location information request (Location management client to location management server)

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MC service ID | M | Identity of the requesting authorized MC service user (e.g. MCPTT ID, MCVideo ID, MCData ID) |
| MC service ID list | O  (see NOTE) | List of MC service users whose location information is requested |
| MC group ID list | O  (see NOTE) | Group ID(s) that correspond to group(s) that the requested MC service users are affiliated to. Group affiliation is checked as per procedure 10.9.3.3 |
| Functional alias | O | Functional alias that corresponds to the requesting MC service user (e.g. MCPTT ID, MCVideo ID, MCData ID) |
| Functional alias | O  (see NOTE) | Functional alias that corresponds to the requested MC service user(s) (e.g. MCPTT ID, MCVideo ID, MCData ID) |
| NOTE: Either the MC service ID list or the MC group ID list or the functional alias must be present. | | |

\* \* \* 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.

(This figure will be updated in VISIO to reflect the additional steps listed below).



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. (either directly or through an MC group ID list)

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. If step (1) involves an MC group ID list, the LMS subscribes to group dynamic data request, to obtain group affiliation data from the MC service server.

3. The MC service server provides the group affilation data to LMS. This will contain client 1’s affilitation to this group.4. 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.

\* \* \* End of Changes \* \* \* \*