**3GPP TSG-SA WG6 Meeting #28 S6-190165**

**Kochi, India, 21st – 25th January 2019 (revision of S6-190119)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v11.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.379** | **CR** | **0174** | **rev** | **1** | **Current version:** | **16.1.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | MCPTT ID in interconnection floor control | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Motorola Solutions | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMCSMI | | | | |  | | ***Date:*** | | 2019-01-22 |
|  |  | | | |  | | |  | |  |
| ***Category:*** | **F** |  | | | | | | ***Release:*** | | Rel-16 |
|  | *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:*** | | For interconnection, an MCPTT server may not be able to distinguish floor control relating to different users in a partner MCPTT system, as the MCPTT server may not have a separate lower layer connection for each MCPTT client. Therefore floor control messages between MCPTT server and MC gateway server or MCPTT server in a partner MCPTT system need to include the MCPTT ID of the relevant MCPTT user, otherwise the receipient server is not able to distinguish which party is indicated by the sending server in situations such as a race condition, or where the first requests are sent before receiving a response to the first request or where a queue position request or information is sent for a particular user. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add MCPTT ID in seven relevant floor control messages. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Floor control will not operate correctly in interconnection in all cases. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.9.1.2.3, 10.9.1.2.4, 10.9.1.2.6, 10.9.1.2.9, 10.9.1.2.11, 10.9.1.2.13, 10.9.1.2.14 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

##### 10.9.1.2.3 Floor granted

Table 10.9.1.2.3-1 describes the information flow floor granted, from the floor control server to the floor participant and from the floor control server to the floor control server or MC gateway server, which is used to indicate that a request for floor is granted and media transfer is possible. This information flow is sent in unicast (to the granted floor participant).

Table 10.9.1.2.3-1: Floor granted

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCPTT ID (NOTE) | O | Granted party identity |
| Functional alias (NOTE) | O | Functional alias of the requester |
| Duration | M | The time for which the granted party is allowed to transmit |
| Source identifier | O | Identifies the communication, e.g. by identifying the media flow within a media multiplex, present only if media multiplexing |
| Acknowledgement required | O | Indicates if acknowledgement from the floor participant is required |
| NOTE: MCPTT ID is present, and functional alias may be present, in messages between the floor control servers in different MCPTT systems, and between floor control server and MC gateway server. | | |

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

##### 10.9.1.2.4 Floor rejected

Table 10.9.1.2.4-1 describes the information flow floor rejected, from the floor control server to the floor participant and from the floor control server to the floor control server or MC gateway server, which is used to indicate that a request for the floor is rejected. This information flow is sent in unicast (to the refused floor participant).

Table 10.9.1.2.4-1: Floor rejected

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCPTT ID (NOTE) | O | Rejected party identity |
| Functional alias (NOTE) | O | Functional alias of the requester |
| Source identifier | O | Identifies the communication, e.g. by identifying the media flow within a media multiplex, present only if media multiplexing |
| Rejection cause | O | Indicates the cause for floor rejection |
| Acknowledgement required | O | Indicates if acknowledgement from the floor participant is required |
| NOTE: MCPTT ID is present, and functional alias may be present, in messages between the floor control servers in different MCPTT systems, and between floor control server and MC gateway server. | | |

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

##### 10.9.1.2.6 Floor request cancel response

Table 10.9.1.2.6-1 describes the information flow floor request cancel response, from the floor control server to the floor control participant and from the floor control server to the floor control server or MC gateway server, which is used to indicate the response for the floor request cancellation. This information flow is sent in unicast.

Table 10.9.1.2.6-1: Floor request cancel response

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCPTT ID (NOTE) | O | Identity of party that initiated the cancellation request |
| Functional alias (NOTE) | O | Functional alias of the requester |
| Source identifier | O | Identifies the communication, e.g. by identifying the media flow within a media multiplex, present only if media multiplexing |
| Acknowledgement required | O | Indicates if acknowledgement from the floor participant is required |
| NOTE: MCPTT ID is present, and functional alias may be present, in messages between the floor control servers in different MCPTT systems, and between floor control server and MC gateway server. | | |

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

##### 10.9.1.2.9 Floor release

Table 10.9.1.2.9-1 describes the information flow floor release, from the floor participant to the floor control server, which is used to indicate the media transfer is completed and floor is released. This information flow is sent in unicast to the floor control server.

Table 10.9.1.2.9-1: Floor release

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCPTT ID (NOTE) | O | Identity of party that initiated the cancellation request |
| Functional alias (NOTE) | O | Functional alias of the requester |
| Source identifier | O | Identifies the communication, e.g. by identifying the media flow within a media multiplex, present only if media multiplexing |
| NOTE: MCPTT ID is present, and functional alias may be present, in messages between the floor control servers in different MCPTT systems, and between floor control server and MC gateway server. | | |

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

##### 10.9.1.2.11 Floor revoked

Table 10.9.1.2.11-1 describes the information flow floor revoked, from the floor control server to the floor participant and from the floor control server to the floor control server or MC gateway server, which is used to indicate the floor is revoked from its current holder (the floor participant who was granted the floor). This information flows is sent in unicast (to the revoked floor participant).

Table 10.9.1.2.11-1: Floor revoked

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCPTT ID (NOTE) | O | Revoked party identity |
| Functional alias (NOTE) | O | Functional alias of the requester |
| Source identifier | O | Identifies the communication, e.g. by identifying the media flow within a media multiplex, present only if media multiplexing |
| Acknowledgement required | O | Indicates if acknowledgement from the floor participant is required |
| NOTE: MCPTT ID is present, and functional alias may be present, in messages between the floor control servers in different MCPTT systems, and between floor control server and MC gateway server. | | |

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

##### 10.9.1.2.13 Queue position request

Table 10.9.1.2.13-1 describes the information flow queue position request, from the floor participant to the floor control server and from the floor control server to the floor control server or MC gateway server, which is used to request the position in the floor request queue. The MCPTT server and the MCPTT client support queuing of the floor control requests shall support this information flow. This information flow is sent in unicast to the floor control server.

Table 10.9.1.2.13-1: Queue position request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCPTT ID (NOTE) | O | Identity of party whose floor position is requested |
| Functional alias (NOTE) | O | Functional alias of the requester |
| Source identifier | O | Identifies the communication, e.g. by identifying the media flow within a media multiplex, present only if media multiplexing |
| NOTE: MCPTT ID is present, and functional alias may be present, in messages between the floor control servers in different MCPTT systems, and between floor control server and MC gateway server. | | |

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

##### 10.9.1.2.14 Queue position info

Table 10.9.1.2.14-1 describes the information flow queue position info, from the floor control server to the floor participant and from the floor control server to the floor control server or MC gateway server, which is used to indicate the floor request is queued and the queue position to the floor requesting UE. The MCPTT server and the MCPTT client support queuing of the floor control requests shall support this information flow. This information flows is sent in unicast (to the queued floor participant).

Table 10.9.1.2.14-1: Queue position info

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| MCPTT ID (NOTE) | O | Identity of party whose floor position is provided |
| Functional alias (NOTE) | O | Functional alias of the requester |
| Queue position info | M | Position of the queued floor request in the queue |
| Source identifier | O | Identifies the communication, e.g. by identifying the media flow within a media multiplex, present only if media multiplexing |
| Acknowledgement required | O | Indicates if acknowledgement from the floor participant is required |
| NOTE: MCPTT ID is present, and functional alias may be present, in messages between the floor control servers in different MCPTT systems, and between floor control server and MC gateway server. | | |