**3GPP TSG-CT WG1 Meeting #127-eC1-207288**

**Electronic meeting, 13-20 November 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.380** | **CR** | **0292** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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:*** | Server side procedures for MBCP Stop and Resume | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enh3MCPTT-CT | | | | |  | ***Date:*** | | | 2020-11-06 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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) Rel-17 (Release 17)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Unicast media stop and resume procedures have been defined in clause 10.9.1.6 of TS 23.379. It needs to be implemented in stage#3. | | | | | | | | |
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| ***Summary of change:*** | | This CR provides server side procedures for unicast media Stop and Resume requests. | | | | | | | | |
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| ***Consequences if not approved:*** | | The feature unicast media stop and resume will not be available in Rel-17. | | | | | | | | |
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| ***Clauses affected:*** | | 6.3.4.1, 6.3.4.3.X (New), 6.3.4.3.Y (New), 6.3.4.4.X (New), 6.3.4.4.Y (New), 6.3.4.5.X (New), 6.3.4.5.Y (New) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\* Next change \*\*\*\*\*

#### 6.3.4.1 General

The floor control server arbitration logic in the floor control server shall behave according to the state diagram and state transitions specified in this subclause.

Figure 6.3.4.1-1 shows the general floor control operation states (G states) and the state transition diagram.



Figure 6.3.4.1-1: Floor control server state transition diagram for 'general floor control operation'

The floor control arbitration logic in the floor control server shall keep one instance of the 'general floor control operation' state machine per MCPTT call.

If floor control messages or RTP media packets arrives in a state where there is no procedure specified in the following subclauses the floor control arbitration logic in the floor control server:

1. shall discard the floor control message;

2. shall request the media distributor in the MCPTT server to discard any received RTP media packet; and

3. shall remain in the current state.

State details are explained in the following subclauses.

\*\*\*\*\* Next change \*\*\*\*\*

##### 6.3.4.3.X Receive a unicast media stop request (R: Unicast Media Flow Control Message)

Upon receiving a Unicast Media Flow Control message from a floor participant with Media Flow Control Indicator is set to '0', the floor control arbitration logic in the floor control server:

1. may de-allocate associated bearer resources by the MCPTT server;

2. shall notify the media distributor to stop sending media to the MCPTT client; and

3. shall remain in the 'G: Floor Idle' state.

\*\*\*\*\* Next change \*\*\*\*\*

##### 6.3.4.3.Y Receive a unicast media resume request (R: Unicast Media Flow Control Message)

Upon receiving a Unicast Media Flow Control message from a floor participant with Media Flow Control Indicator is set to '1', the floor control arbitration logic in the floor control server:

1. may allocate new bearer resources;

2. shall notify the media distributor to start sending media to the MCPTT client; and

3. shall remain in the 'G: Floor Idle' state.

\*\*\*\*\* Next change \*\*\*\*\*

##### 6.3.4.4.X Receive a unicast media stop request (R: Unicast Media Flow Control Message)

Upon receiving a Unicast Media Flow Control message from a floor participant with Media Flow Control Indicator is set to '0', the floor control arbitration logic in the floor control server:

1. may de-allocate associated bearer resources by the MCPTT server;

2. shall notify the media distributor to stop sending media to the MCPTT client; and

3. shall remain in the 'G: Floor Taken' state.

\*\*\*\*\* Next change \*\*\*\*\*

##### 6.3.4.4.Y Receive a unicast media resume request (R: Unicast Media Flow Control Message)

Upon receiving a Unicast Media Flow Control message from a floor participant with Media Flow Control Indicator is set to '1', the floor control arbitration logic in the floor control server:

1. may allocate new bearer resources;

2. shall notify the media distributor to start sending media to the MCPTT client; and

3. shall remain in the 'G: Floor Taken' state.

\*\*\*\*\* Next change \*\*\*\*\*

##### 6.3.4.5.X Receive a unicast media stop request (R: Unicast Media Flow Control Message)

Upon receiving a Unicast Media Flow Control message from a floor participant with Media Flow Control Indicator is set to '0', the floor control arbitration logic in the floor control server:

1. may de-allocate associated bearer resources by the MCPTT server;

2. shall notify the media distributor to stop sending media to the MCPTT client; and

3. shall remain in the 'G: pending Floor Revoke' state.

\*\*\*\*\* Next change \*\*\*\*\*

##### 6.3.4.5.Y Receive a unicast media resume request (R: Unicast Media Flow Control Message)

Upon receiving a Unicast Media Flow Control message from a floor participant with Media Flow Control Indicator is set to '1', the floor control arbitration logic in the floor control server:

1. may allocate new bearer resources;

2. shall notify the media distributor to start sending media to the MCPTT client; and

3. shall remain in the 'G: pending Floor Revoke' state.

\*\*\*\*\* End of change \*\*\*\*\*