**3GPP TSG-SA WG6 Meeting #35 S6-200182**

**Hyderabad, India, 13th - 17th Jan 2020 (revision of S6-200043)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.281** | **CR** | **0143** | **rev** | **1** | **Current version:** | **17.1.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

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

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|  | | | | | | | | | | |
| ***Title:*** | Adding missing server to server information flows for group calls | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | S6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMONASTERY2 | | | | |  | ***Date:*** | | | 2019-12-23 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Railway communication requires support for server to server group call messages. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adds missing server to server information flows for group calls. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No server to server group call messages available. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.1.2.2.2, 7.1.2.2.3, 7.1.2.2.5, 7.1.2.2.7, 7.1.2.2.8, 7.1.2.2.9, 7.1.2.2.10, 7.1.2.2.11, 7.1.2.2.12, 7.1.2.2.12a, 7.1.2.2.13, 7.1.2.2.13a, 7.1.2.2.18, 7.1.2.2.19, 7.1.2.2.20, 7.1.2.2.21, 7.1.2.2.22, 7.1.2.2.23, 7.1.2.2.24, 7.1.2.2.25 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

7.1.2.2.2 Group call request

Table 7.1.2.2.2-1 describes the information flow group call request from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.2-1: Group call request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the calling party |
| Functional alias | O | The functional alias of the calling party |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is initiated |
| SDP offer | M | Media parameters of MCVideo server |
| Broadcast indicator | O | Indicates that the group call request is for a broadcast group call |

7.1.2.2.3 Group call response

Table 7.1.2.2.3-1 describes the information flow group call response from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.3-1: Group call response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the calling party |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is requested |
| SDP answer | M | Media parameters selected |
| Result | M | Result of the group call request (success or failure) |

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

7.1.2.2.5 Group call release request

Table 7.1.2.2.5-1 describes the information flow group call release request from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.5-1: Group call release request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is released |

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

7.1.2.2.7 Group call release response

Table 7.1.2.2.7-1 describes the information flow group call release response from the MCVideo server to the MCVideo server and from the MCVideo client to the MCVideo server.

**Table 7.1.2.2.7-1: Group call release response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is released |

7.1.2.2.8 Group call rejoin request

Table 7.1.2.2.8-1 describes the information flow group call rejoin request from the MCVideo server to the MCVideo server and from the MCVideo client to the MCVideo server.

**Table 7.1.2.2.8-1: Group call rejoin request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the re-joining MCVideo group member |
| Functional alias | O | The functional alias of the re-joining MCVideo group member |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is on-going |
| SDP offer | M | Media parameters of MCVideo client |
| Requested priority | O | Application priority level requested for this call |

7.1.2.2.9 Group call rejoin response

Table 7.1.2.2.9-1 describes the information flow group call rejoin response from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.9-1: Group call rejoin response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member rejoining the group call |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is on-going |
| SDP answer | M | Media parameters selected |

7.1.2.2.10 Group join request

Table 7.1.2.2.10-1 describes the information flow group join request from the MCVideo server to the MCVideo server and from the MCVideo client to the MCVideo server.

**Table 7.1.2.2.10-1: Group join request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member joining the group communications for the group |
| MCVideo group ID | M | The MCVideo group ID of the group to which the group communication is requested |
| SDP offer | M | Media parameters of MCVideo client |
| Implicit transmit media request | O | An indication that the user is also requesting the permission to transmit video |
| Requested priority | O | Application priority level requested for this call |

7.1.2.2.11 Group join response

Table 7.1.2.2.11-1 describes the information flow group join response from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.11-1: Group join response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member joining the group communications for the group |
| MCVideo group ID | M | The MCVideo group ID of the group to which the group communication is requested |
| SDP answer | M | Media parameters selected |

7.1.2.2.12 Group call leave request

Table 7.1.2.2.12-1 describes the information flow group call leave request from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.12-1: Group call leave request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member which has been de-affiliated |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is on-going |

7.1.2.2.12a Group call leave request

Table 7.1.2.2.12a-1 describes the information flow group call leave request from the MCVideo client to the MCVideo server and from the MCVideo server to the MCVideo server.

**Table 7.1.2.2.12a-1: Group call leave request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member leaving the group call |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is on-going |

7.1.2.2.13 Group call leave response

Table 7.1.2.2.13-1 describes the information flow group call leave response from the MCVideo client to the MCVideo server and from the MCVideo server to the MCVideo server.

**Table 7.1.2.2.13-1: Group call leave response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member which has been de-affiliated |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is on-going |

7.1.2.2.13a Group call leave response

Table 7.1.2.2.13a-1 describes the information flow group call leave response from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.13a-1: Group call leave response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The MCVideo ID of the MCVideo group member leaving the group call |
| MCVideo group ID | M | The MCVideo group ID of the group on which the call is on-going |

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

7.1.2.2.18 MCVideo emergency group call request

Table 7.1.2.2.18-1 describes the information flow emergency group call request from the MCVideo client to the MCVideo server, from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.18-1: MCVideo emergency group call request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the calling party |
| Functional alias | O | The functional alias of the calling party |
| MCVideo group ID | M | The MCVideo group ID on which the call is to be conducted |
| Emergency indicator | M | Indicates that the group call request is an MCVideo emergency call |
| Alert indicator | M | Indicates whether an emergency alert is to be sent |
| Implicit transmit media request (see NOTE) | O | Indicates that the originating client requests the permission to transmit media. |
| NOTE: This element shall be included only when the originating client requests the the permission to transmit media. | | |

7.1.2.2.19 MCVideo emergency group call response

Table 7.1.2.2.19-1 describes the information flow emergency group call response from the MCVideo client to the MCVideo server, from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.19-1: MCVideo emergency group call response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the calling party |
| MCVideo group ID | M | The MCVideo group ID on which the call is to be conducted |
| Result | M | Result of the MCVideo emergency group call request (success or failure) |

7.1.2.2.20 MCVideo in-progress emergency group state cancel request

Table 7.1.2.2.20-1 describes the information flow MCVideo in-progress emergency group state cancel request from the MCVideo client to the MCVideo server and from the MCVideo server to the MCVideo server.

NOTE: In Rel-14 and Rel-13 versions of this specification the name of this information flow is "MCVideo emergency group call cancel request".

**Table 7.1.2.2.20-1: MCVideo in-progress emergency group state cancel request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the cancelling party |
| MCVideo group ID | M | The MCVideo group ID on which the MCVideo in-progress emergency state is to be cancelled. |
| Alert indicator | O | Indicates whether the emergency alert of the cancelling party is to be cancelled |

7.1.2.2.21 MCVideo in-progress emergency group state cancel response

Table 7.1.2.2.21-1 describes the information flow MCVideo in-progress emergency group state cancel response from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

NOTE: In Rel-14 and Rel-13 versions of this specification the name of this information flow is "MCVideo emergency group call cancel response".

**Table 7.1.2.2.21-1: MCVideo in-progress emergency group state cancel response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the cancelling party |
| MCVideo group ID | M | The MCVideo group ID on which the MCVideo in-progress emergency state is to be cancelled. |

7.1.2.2.22 MCVideo imminent peril group call request

Table 7.1.2.2.22-1 describes the information flow MCVideo imminent peril group call request from the MCVideo client to the MCVideo server, from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.22-1: MCVideo imminent peril group call request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the calling party |
| Functional alias | O | The functional alias of the calling party |
| MCVideo group ID | M | The MCVideo group ID on which the call is to be conducted |
| Imminent peril indicator | M | Indicates that the group call request is an imminent peril call |

7.1.2.2.23 MCVideo imminent peril group call response

Table 7.1.2.2.23-1 describes the information flow MCVideo imminent peril group call response from the MCVideo client to the MCVideo server, from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.23-1: MCVideo imminent peril group call response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the calling party |
| MCVideo group ID | M | The MCVideo group ID on which the call is to be conducted |
| Result | M | Result of the MCVideo imminent peril group call request (success or failure) |

7.1.2.2.24 MCVideo imminent peril group call cancel request

Table 7.1.2.2.24-1 describes the information flow MCVideo imminent peril group call cancel request from the MCVideo client to the MCVideo server, from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.24-1: MCVideo imminent peril group call cancel request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the cancelling party |
| MCVideo group ID | M | The MCVideo group ID on which the imminent peril is to be cancelled |

7.1.2.2.25 MCVideo imminent peril group call cancel response

Table 7.1.2.2.25-1 describes the information flow MCVideo imminent peril group call cancel response from the MCVideo client to the MCVideo server, from the MCVideo server to the MCVideo server and from the MCVideo server to the MCVideo client.

**Table 7.1.2.2.25-1: MCVideo imminent peril group call cancel response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCVideo ID | M | The identity of the cancelling party |
| MCVideo group ID | M | The MCVideo group ID on which the imminent peril is to be cancelled |

\* \* \* End of Change \* \* \* \*