**3GPP TSG- Meeting #68 *S6-253426***

**Gothenburg, Sweden, (revision of *S6-253018***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | 0466 | **rev** | 1 | **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:*** | Pause and Resume feature for Ambient Listening | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | \_Ph2-MC | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | | Some user organisations require the ambient listening (AL) calls to be paused when the “listened to” user initiates an outgoing call or accepts a receiving call and resumed when this interrupting call finishes. If there are two parallel call lines available, some user organisations require this interrupting call to be switched to the other line and the AL call to continue. These options are currently not avaiable in TS 23.379, where it only supports terminating the AL call, when an interrupting call occurs. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Introduce the IE tables necessary for this pause and resume of the AL call to the clause 10.14 of TS 23.379. Also include the continuation of the AL call if two parallel call lines are available, as an option. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | This pause and resume or the continue options for the AL call are not supported in current MCPTT specifications, which could be vital features when the emeregency services attend scenarios where their personal safety can be at risk. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.14.1, 10.14.2 and 10.14.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

10.14 Ambient listening call

#### 10.14.1 General

The ambient listening call is a type of a private MCPTT call that only allows a "listened to" user to transmit media to a "listening" user such that there is no indication on the MCPTT UE of the "listened to" user about the call and the media transmission.

NOTE 1: "listened to" user refers to the user who is transmitting media in an ambient listening call.

NOTE 2: "listening" user refers to the user who is receiving media in an ambient listening call.

There are two types of ambient listening call as below:

- Remotely initiated ambient listening is initiated by the authorized user (e.g., dispatcher) who wants to listen to another user. In this case, the "listened to" user is the called party, and shall automatically accept the call without causing any indication about the call and transmit the media to the "listening" user.

- Locally initiated ambient listening is initiated by an authorized user who wants another user to listen to the MCPTT UE communication. In this case, the "listened to" user is the calling party and shall automatically transmit the media to the "listening" user without causing any indication about the call processing and media transmission.

In the event of the “listened to” user initiating an outgoing call or accepting an incoming call while the ambient listening is on-going, one of the following 3 options shall be executed as per the MCPTT system configuration.

* The “listened to” user client or the MCPTT server (upon request) shall terminate the ambient listening call by executing the call release procedure.
* The “listened to” user client shall initiate pause and resume procedure to temporally pause the ambient listening call until the interrupting call finishes.
* If the MCPTT system is configured with such capability, the MCPTT server shall continue the ambient listening call on one line and allocate the interrupting call to the other line.

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

#### 10.14.2.6 Ambient listening call pause request

Table 10.14.2.6-1 describes the information flow for ambient listening call pause request from the MCPTT client to the MCPTT server and from the MCPTT server to the MCPTT client.

**Table 10.14.2.6-1: Ambient listening call pause request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCPTT ID | M | The MCPTT ID of the "listening" user |
| MCPTT ID | M | The MCPTT ID of the "listened to" user |
| Call pause reason | O | Reason for the call pause request by the initiating client |
| SDP offer | O | Media parameters of the MCPTT client. |

#### 10.14.2.7 Ambient listening call pause response

Table 10.14.2.7-1 describes the information flow for ambient listening call pause response from the MCPTT server to the MCPTT client and from the MCPTT client to the MCPTT server.

**Table 10.14.2.7-1: Ambient listening call pause response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCPTT ID | M | The MCPTT ID of the "listening" user |
| MCPTT ID | M | The MCPTT ID of the "listened to" user |
| SDP answer | O | Media parameters selected |

#### 10.14.2.8 Ambient listening call resume request

Table 10.14.2.8-1 describes the information flow for ambient listening call resume request from the MCPTT client to the MCPTT server and from the MCPTT server to the MCPTT client.

**Table 10.14.2.8-1: Ambient listening call resume request**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCPTT ID | M | The MCPTT ID of the "listening" user |
| MCPTT ID | M | The MCPTT ID of the "listened to" user |
| SDP offer | O | Media parameters of the initiating MCPTT client. |

#### 10.14.2.9 Ambient listening call resume response

Table 10.14.2.9-1 describes the information flow for ambient listening call resume response from the MCPTT client to the MCPTT server and from the MCPTT server to the MCPTT client.

**Table 10.14.2.9-1: Ambient listening call resume response**

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Status** | **Description** |
| MCPTT ID | M | The MCPTT ID of the "listening" user |
| MCPTT ID | M | The MCPTT ID of the "listened to" user |
| SDP answer | O | Media parameters selected for the resuming call. |

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