**3GPP TSG-CT WG1 Meeting #123-eC1-202559**

**Electronic meeting, 16-24 April 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.380** | **CR** | **0230** | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  | | | | | | | | |
| *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:*** | Authentication of the MIKEY-SAKKE I\_Message validation in pre-established session | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCProtoc16 | | | | |  | ***Date:*** | | | 2020-03-19 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | No procedure is defined to return the authentication failure if MIKEY-SAKKE I\_Message validation fails in case of the private call or ambient call handling based on pre-established session for auto commencement mode in 3GPP TS 24.379 and 3GPP TS 24.380.  The wordings in subclause 8.3.3.4 was providing the impression that the warning texts retured from the CF for INVITE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The new Warning Text field has been added to the ‘Acknowledgement’ and ‘Disconnect’ message of Pre-established session call control messages to indicate about the authentication failure or any other failure reason. e.g integrity protection check failed and unable to decrypt XML content etc.  Corrected the wordings of subclause 8.3.3.4 for making it generic and can be used in any of the messages.  In subclause 9.2.2.3.2, included the addition warning text if ‘Not Accepted’. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Call continues even if the user plane data decoding is not possible and there is no information about call disconnect reason. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.3.3.4, 8.3.5, 8.3.6, 9.2.2.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \* \* \* \*

#### 8.3.3.4 Warning Text field

The Warning Text field contains the text string as described in 3GPP TS 24.379 [2] subclause 4.4.

Table 8.3.3.4-1 describes the coding of the Warning Text field.

Table 8.3.3.4-1: Warning Text field coding

0 1 2 3

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

|Warning Text |Warning Text |Warning Text |

|field ID |length | |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ :

: (Padding) :

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

The <Warning Text field ID> value is a binary value and shall be set according to table 8.3.3.1-2.

The <Warning Text length> value is a binary value indicating the length in octets of the <Warning Text> value item excluding any padding octets.

The <Warning Text> value shall be coded as specified in 3GPP TS 24.379 [2] table 4.4.2-1.

EXAMPLE: If the Warning: 399 "100 User not authorised to make group calls" is received, the 399 "100 User not authorised to make group calls" is included as the <Warning Text> value.

If the length of the <Warning Text> value is not (2 + multiple of 4) bytes, the <Warning Text> value shall be padded to (2 + multiple of 4) bytes. The value of the padding bytes should be set to zero. The padding bytes shall be ignored.

\* \* \* \* \* \* \* SECOND CHANGE \* \* \* \* \* \* \*

### 8.3.5 Disconnect message

Table 8.3.5-1 shows the content of the Connect message.

Table 8.3.5-1: Disconnect message

0 1 2 3

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

|V=2|P| Subtype | PT=APP=204 | Length |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| SSRC of participating MCPTT function |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| name=MCPC |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| MCPTT Session Identity field |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| Warning Text field |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

With the exception of the three first 32-bit words the order of the fields are irrelevant.

**Subtype:**

The subtype shall be coded according to table 8.3.2-1.

**Length:**

The length shall be coded as specified in subclause 8.1.2.

**SSRC:**

The SSRC field shall carry the SSRC of the participating MCPTT function.

The SSRC field shall be coded as specified in IETF RFC 3550 [3].

**MCPTT Session Identity:**

The MCPTT Session Identity field is coded as described in subclause 8.3.3.3.

**Warning Text:**

The Warning Text field is coded as described in subclause 8.3.3.4.

\* \* \* \* \* \* \* THIRD CHANGE \* \* \* \* \* \* \*

### 8.3.6 Acknowledgement message

Table 8.3.6-1 shows the content of the Acknowledgement message.

Table 8.3.6-1: Acknowledgement message

0 1 2 3

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

|V=2|P| Subtype | PT=APP=204 | Length |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| SSRC of floor participant |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| name=MCPC |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| Reason Code field |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

| Warning Text field |

+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

With the exception of the three first 32-bit words the order of the fields are irrelevant.

**Subtype:**

The subtype shall be coded according to table 8.3.2-1.

**Length:**

The length shall be coded as specified in subclause 8.1.2.

**SSRC:**

The SSRC field shall carry the SSRC of the floor participant.

The SSRC field shall be coded as specified in IETF RFC 3550 [3].

**Reason Code:**

The Reason Code field is coded as described in subclause 8.3.3.8.

**Warning Text:**

The Warning Text field is coded as described in subclause 8.3.3.4.

\* \* \* \* \* \* \* FOURTH CHANGE \* \* \* \* \* \* \*

##### 9.2.2.3.2 Receive Connect message (R: Connect)

Upon reception of a Connect message:

1. if the MCPTT client accepts the incoming call the MCPTT client:

a. shall send the Acknowledgement message with Reason Code field set to 'Accepted';

b. shall use only the media streams of the pre-established session which are indicated as used in the associated call session Media Streams field, if the Connect contains a Media Streams field;

c. shall create an instance of the 'Floor participant state transition diagram for basic operation' as specified in subclause 6.2.4; and

d. shall enter the 'U: Pre-established session in use' state; or

2. Otherwise the MCPTT client:

a. shall send the Acknowledgement message with the Reason Code field set to 'Busy' or 'Not Accepted' with appropriate warning text string as described in the subclause 8.3.3.4; and

b. shall remain in 'U: Pre-established session not in use' state.

\* \* \* \* \* \* \* END CHANGES \* \* \* \* \* \* \*