**3GPP TSG-CT WG1 Meeting #146C1-240164r1**

**Online, 22– 26 January 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **24.380** | **CR** | **0366** | **rev** | **-** | **Current version:** | **18.4.0** |  |
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| *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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  |  for calls using pre-established sessions. |
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| ***Source to WG:*** |  |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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 canbe 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)* |
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| ***Reason for change:*** | The reason for this change is [Observation #1 mentioned in in ETSI MCX Plugtests#8 event Wiki](https://wiki.plugtests.net/8th-MCX-Plugtests/index.php?title=Observations).Inviting-MCPTT-User-Identity field is part of the Connect message, which is used for managing pre-established sessions. This field is used to communicate caller information to the called-party. However, there is no suitable field to communicate called-party information to the caller when pre-established sessions are used. Hence scenarios like First-to-answer call with pre-established session, the called-party information is not available with the caller. |
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| ***Summary of change:*** | A new field Called-MCPTT-User-Identity field is added so that it can be used to communicate called-party information with the caller. |
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| ***Consequences if not approved:*** | There will be no suitable field to communicate called-party information to the caller when pre-established sessions are used. This impacts scenarios like First-to-answer-call using pre-established sessions, where called-party information cannot be communicated to the caller. |
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| ***Clauses affected:*** | TBD |
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|  | **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 ...  |
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| ***Other comments:*** | None |
|  |  |
| ***This CR's revision history:*** | C1-240164 |

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

#### 8.3.3.1 Introduction

This clause describes the pre-established session call control specific data fields.

The pre-established session call control specific data fields are contained in the application-dependent data of the pre-established session call control message. The pre-established session call control specific data fields follow the syntax specified in clause 8.1.3.

Table 8.3.3.1-1: Void

Table 8.3.3.1-2 lists the available data fields including the assigned field ID.

Table 8.3.3.1-2: Pre-established session call control data fields

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| --- | --- | --- |
| Field name | Field ID | Reference |
| Decimal | Binary |
| Media Streams | 000 | 00000000 | Clause 8.3.3.2 |
| MCPTT Session Identity | 001 | 00000001 | Clause 8.3.3.3 |
| Warning Text | 002 | 00000010 | Clause 8.3.3.4 |
| MCPTT Group Identity | 003 | 00000011 | Clause 8.3.3.5 |
| Answer State | 004 | 00000100 | Clause 8.3.3.6 |
| Inviting MCPTT User Identity | 005 | 00000101 | Clause 8.3.3.7 |
| Reason Code | 006 | 00000110 | Clause 8.3.3.8 |
| Reason Cause | 007 | 00000111 | Clause 8.3.3.11 |
| Called MCPTT User Identity | 008 | 00001000 | Clause 8.3.3.12 |
| PCK I\_MESSAGE | 192 | 11000000 | Clause 8.3.3.10 |

The following clauses describe the coding of each data field.

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

#### 8.3.3.12 Called MCPTT User Identity field

The Called MCPTT User Identity field contains the MCPTT ID identifying the inviting MCPTT user.

Table 8.3.3.7-1 describes the coding of the Called MCPTT User Identity field.

Table 8.3.3.12-1: Inviting MCPTT User Identity 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

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

|Called MCPTT |Called MCPTT |Called MCPTT User Identity |

|User Identity |User Identity | |

|field ID |length | |

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

: (Padding) :

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

The <Called MCPTT User Identity field ID> value is a binary value and shall be set according to table 8.3.3.1-2.

The <Called MCPTT User Identity length> value is a binary value indicating the length in octets of the <Called MCPTT User Identity> value item except padding.

The <Called MCPTT User Identity> value contains the MCPTT ID of the called MCPTT user. The <Called MCPTT User Identity> value shall be coded as specified in the table 8.3.3.12-2. The MCPTT ID is specified in 3GPP TS 24.379 [2].

Table 8.3.3.12-2: ABNF syntax of string values of the <Inviting MCPTT User Identity> value

called-mcptt-user-identity = URI

If the length of the <Called MCPTT User Identity> value is not (2 + multiple of 4) bytes, the <Called MCPTT User Identity> 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.

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

### 8.3.4 Connect message

The Connect message is sent by the participating MCPTT function on the originating side to the MCPTT client to confirm the establishment of an MCPTT call or sent on the terminating side to initiate an MCPTT call. The Connect message is only used in the on-network mode and only sent over the unicast bearer.

Table 8.3.4-1 shows the content of the Connect message.

Table 8.3.4-1: Connect 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 |

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

| MCPTT Group Identity field |

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

| Media Streams field |

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

| Warning Text field |

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

| Answer State field |

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

| Inviting MCPTT User Identity field |

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

| Called MCPTT User Identity field |

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

| PCK I\_MESSAGE 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 to clause 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 clause 8.3.3.3.

**MCPTT Group Identity:**

The MCPTT Group Identity field is coded as described in clause 8.3.3.5.

**Media Streams:**

The Media Streams field is coded as described in clause 8.3.3.2.

**Warning Text:**

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

**Answer State:**

The Answer State field is coded as described in clause 8.3.3.6.

When the Answer State field is not included the value "confirmed" shall be assumed.

**Inviting MCPTT User Identity:**

The Inviting MCPTT User Identity field is coded as described in clause 8.3.3.5.

When the inviting MCPTT user requested privacy, the <sip:anonymous@invalid.invalid> identity shall be used.

**Called MCPTT User Identity:**

The Called MCPTT User Identity field is coded as described in clause 8.3.3.12.

When the inviting MCPTT user requested privacy, the <sip:anonymous@invalid.invalid> identity shall be used.

**PCK I\_MESSAGE:**

The PCK I\_MESSAGE is used to transport the PCK and PCK-ID for use in private call.

This field is used when the terminating participating MCPTT function sends the Connect message to the terminating client for a private call.

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