**3GPP TSG-CT WG1 Meeting #137-eC1-225012**

**E-Meeting, 18th – 26th August 2022 *was* C1-225012**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **0329** | **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:***  | Plugtest issue 10.1.9 from Nov 2021: Inconsistency in specifying the length value of application specific data field. |
|  |  |
| ***Source to WG:*** | Samsung, Kontron Transportation France |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | MCProtoc18 |  | ***Date:*** | 2022-08-18 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-18 |
|  | *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)* |
|  |  |
| ***Reason for change:*** | The Application specific data field are in the form of field ID, field value length, field value and padding if any. The field value length is size of field value including any sub-field defined as a part of field value except padding. Some of the application specific data field are inconsistance in specifying the field value length. |
|  |  |
| ***Summary of change:*** | The field value length is calculated by consideringing all the sub fields defined as part of the field value except the padding.The “User ID” field name is prepended with corresponding field names to make them consistence with the field description and defination. |
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| ***Consequences if not approved:*** |  Can result into wrong decoding of the data.  |
|  |  |
| ***Clauses affected:*** | 8.2.3.13, 8.2.3.17, 8.2.3.20, 8.2.3.22, and 8.2.3.24 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev1:* Table 8.2.3.17-1 name updated from List of Users to List of Granted Users field.
* Table 8.2.3.20-1 name updated to include the word “field”.
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**\*\*\*\*\* FIRST CHANGE \*\*\*\*\***

#### 8.2.3.13 Track Info field

The Track Info field contains the path a floor control message has been routed along with the priority and the queueing capability of the MCPTT client.

Table 8.2.3.13-1 describes the coding of the Track Info field.

Table 8.2.3.13-1: Track Info 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

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|Track Info |Track Info |Queueing |Participant |

|field ID value |length value |Capability |Type Length |

| | |value |value |

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

| Participant Type value |

: :

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

| Floor Participant Reference 1 |

: | :

| Floor Participant Reference n |

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The <Track Info field ID> value is a binary value and is set according to table 8.2.3.1-2.

The <Track Info length> value is a binary value and has a value indicating the total length in octets of the <Queueing Capability> value, the <Participant Type Length> value, the <Participant Type> value, and one or more <Floor Participant Reference> value items.

The <Queueing Capability> value is an 8 bit binary value where:

'0' the floor participant in the MCPTT client does not support queueing

'1' the floor participant in the MCPTT client supports queueing

All other values are reserved for future use.

The <Participant Type Length> value is 8 bit binary value set to the length of the <Participant Type> value item except padding.

The <Participant Type> value is string coded as specified in table 8.2.3.13-2:

Table 8.2.3.13-2: ABNF syntax of values of the <Participant Type> value

participant-type = 1\*( %x20-7E / UTF8-NONASCII )

If the length of the <Participant Type> value is not a multiple of 4 bytes, the <Participant Type> value is padded to a multiple of 4 bytes. The value of the padding bytes is set to zero. The padding bytes are ignored by the receiver.

NOTE 1: The content of the <Participant Type> value is MCPTT service provider specific and out of scope of the present document.

The <Floor Participant Reference> value is a 32 bit binary value containing a reference to the floor participant in the non-controlling MCPTT function of an MCPTT group.

NOTE 2: The reference to the floor participant is a value only understandable by the floor control server interface in the non-controlling MCPTT function of an MCPTT group.

**\*\*\*\*\* NEXT CHANGE \*\*\*\*\***

#### 8.2.3.17 List of Granted Users field

The List of Granted Users field contains a list of MCPTT IDs of MCPTT users that are allowed to send media in a multi-talker scenario.

Table 8.2.3.17-1 describes the coding of the List of Granted Users field.

Table 8.2.3.17-1: List of Granted Users 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

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|List of Granted|List of Granted| No of Granted| Granted User ID|

|Users field ID |Users length | Users value | length value |

|value |value | | |

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

: Granted User ID :

: |

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

: :

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

| Granted User ID| Granted User ID :

| length value | :

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: Granted User ID (continued) :

: |

| Padding |

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The <List of Granted Users field ID> value is a binary value and is set according to table 8.2.3.1-2.

The <List of Granted Users length> value is a binary value and has a value indicating the total length in octets of the <No of Granted Users> value, and one or more pair of <Granted User ID length> and <Granted User ID> value items except padding.

The <No of Granted Users> value is a binary value and includes the number of Granted User ID entries in the list.

The <Granted User ID length> value is a binary value and includes the value indicating the length in octets of the <Granted User ID> value item.

The <Granted User ID> value is coded as described in table 8.2.3.17-2.

Table 8.2.3.17-2: ABNF syntax of string values of the <Granted User ID> value

granted-user-id = URI

If the length of the sum of all <Granted User ID length> values and all <Granted User ID> values is not (1 + multiple of 4) bytes, then the sum shall be padded to (1 + multiple of 4) bytes. The value of the padding bytes is set to zero. The padding bytes are ignored by the receiver.

**\*\*\*\*\* NEXT CHANGE \*\*\*\*\***

#### 8.2.3.20 List of Functional Aliases field

The List of Functional Aliases field contains a list of Functional Aliases of MCPTT users that are allowed to send media in a multiple talker scenario.

Table 8.2.3.20-1 describes the coding of the List of Functional Aliases field.

Table 8.2.3.20-1: List of Functional Aliases 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

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|List of FAs |List of FAs | No of FAs | FA length |

| field ID | length | | value |

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

: Functional Alias :

: |

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

: :

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

| FA length | Functional Alias :

| value | :

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

: Functional Alias (continued) :

: |

| Padding |

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The <List of FAs ID> value is a binary value and is set according to table 8.2.3.1-2.

The <List of FAs length> value is a binary value and has avalue indicating the total length in octets of the the <No of FAs> value, and one or more pair of <FA length value> and <Functional Alias> value items except padding.

The <No of FAs> value is a binary value and includes the number of Functional Alias entries in the list.

The <FA length> value is a binary value and includes the value indicating the length in octets of the <Functional Alias> value item.

The <Functional Alias> value is coded as described in table 8.2.3.17-2.

Table 8.2.3.20-2: ABNF syntax of string values of the <Functional Alias> value

Functional Alias = URI

If the length of the sum of all <FA length> values and all <Functional Alias> values is not (1 + multiple of 4) bytes, then the sum shall be padded to (1 + multiple of 4) bytes. The value of the padding bytes is set to zero. The padding bytes are ignored by the receiver.

**\*\*\*\*\* NEXT CHANGE \*\*\*\*\***

#### 8.2.3.22 List of Locations field

The List of Locations field contains the locations of users in a multi-talker scenario or when more than one Location Type needs to be included.

Table 8.2.3.22-1: List of Locations 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

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|List of |List of | Number of | Location |

|Locations field|Locations | Locations | |

|ID |length | | |

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

: Location :

: :

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

: :

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

: Location (continued) :

: :

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The <List of Locations field ID> value is a binary value and is set according to table 8.2.3.1-2.

The <List of Locations length> value is a binary value and has a value indicating the total length in octets of the <Number of Locations> value and one or more <Location> value items (i.e. set of (<Location type> value plus <Location value> values) except padding.

The <Number of Locations> value is a binary value and shall be equal to the <No of users> field in the List of Granted Users field (see 8.2.3.17). The location information shall be maintained in the same order as the users in the List of Granted Users to allow location information to be matched to the correct user. When the location information for a granted floor participant is not available or not allowed, the location type field for that granted floor participant shall be set to '0' (Not provided).

The <Location> field is coded per clause 8.2.3.21. The <Location type> value for a granted user for whom location information is either not available or not allowed shall be set to 0 (Not provided).

If the length of the sum of the set of <Location> values is not (1 + multiple of 4) bytes, then the sum shall be padded to (1 + multiple of 4) bytes. The value of the padding bytes is set to zero. The padding bytes are ignored by the receiver.

**\*\*\*\*\* NEXT CHANGE \*\*\*\*\***

#### 8.2.3.24 List of Queued Users field

The List of Queued Users field contains a list of MCPTT IDs of MCPTT users.

Table 8.2.3.24-1 describes the coding of the List of Queued Users field.

Table 8.2.3.24-1: List of Queued Users 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

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|List of Queued|     List of Queued Users      |  No of Queued|

|Users field ID|      length                     | Users       |

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: Queued User ID length         | Queued User ID                :

: value                         |                               |

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

:                                                               :

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

| Queued User ID length         |  Queued User ID               :

| value                         |                               :

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

: Queued User ID(continued)                                     :

:                                                               |

|                                        Padding                |

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

The <List of Queued Users field ID> value is a binary value and is set according to table 8.2.3.1-2.

The <List of Queued Users length> value is a binary value and has a value indicating the total length in octets of the <No of Queued Users> value, and one or more pair of <Queued User ID length> and <Queued User ID> value items except padding.

NOTE: The receiver understands that the padding octets are not included in this length field and can calculate the number of padding bytes per the formula below.

The <No of Queued Users> value is a binary value that indicates the number of Queued User ID entries in the list.

The <Queued User ID length> value is a binary value that indicates the length in octets of the <Queued User ID> value item.

The <Queued User ID> value is coded as described in table 8.2.3.24-2.

Table 8.2.3.24-2: ABNF syntax of string values of the <Queued User ID> value

queued-user-id = URI

If the length of the sum of all <Queued User ID length> values and all <Queued User ID> values is not (1 + multiple of 4) bytes, then the sum shall be padded to (1 + multiple of 4) bytes. The value of the padding bytes is set to zero. The padding bytes are ignored by the receiver.

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