**3GPP TSG-CT1 Meeting #126-e *C1-206501***

**Online, , 15th Oct 2020 - 23rd Oct 2020**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.582** | **CR** | **0006** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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 |  |

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|  | | | | | | | | | | |
| ***Title:*** | Identifying LMR type in MCData SDS interworking | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Sepura Ltd | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCCI\_CT | | | | |  | ***Date:*** | | | 2020-10-08 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The LMR MESSAGE Payload content type is used for Interworking when a native LMR format needs to be used for the payload. However, more than one type of LMR system (P25, TETRA, DMR, etc) may be interworking with the MCData system and these need to be distinguished. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The Payload data is defined so that in the case of an LMR MESSAGE Payload content type, the first octet indicates the source type of the LMR technology. The External Network Type used for the Inter-SD messages shall use Payload content type of 'BINARY' to prevent possible duplication of LMR MESSAGE Payload content type. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | An MCData system can only interwork with one type of LMR system | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 15.2.13, 17.2.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | C1-206374 | | | | | | | | |

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

### 15.2.13 Payload

The Payload information element contains the payload intended for the recipient user or application;

The Payload information element is coded as shown in Figure 15.2.13-1, Table 15.2.13-1, Table 15.2.13-2, Table 15.2.13-3 and Table 15.2.13-4.

The Payload information element is a type 6 information element.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Payload IEI | | | | | | | | octet 1 |
| Length of Payload contents | | | | | | | | octet 2 |
|  | | | | | | | | octet 3 |
|  | | | | | | | | octet 4 |
| Payload contents | | | | | | | |  |
|  | | | | | | | | octet n |

Figure 15.2.13-1: Payload information element

Table 15.2.13-1: Payload contents

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Payload content type | | | | | | | | octet 4 |
|  | | | | | | | | octet 5 |
| Payload data | | | | | | | |  |
|  | | | | | | | | octet n |

Table 15.2.13-2: Payload content type

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bits | | | | | | | |  |  |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | TEXT |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | BINARY |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  | HYPERLINKS |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |  | FILEURL |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |  | LOCATION |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |  | ENHANCED STATUS |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  | LMR MESSAGE |
|  |  |  |  |  |  |  |  |  |  |
| All other values are reserved.  NOTE: The LMR MESSAGE format identifies the payload content as a native LMR format message for transport between LMR aware endpoints as per 3GPP TS 23.283 [80] | | | | | | | | | |

Table 15.2.13-3: Payload data

|  |
| --- |
| Payload data is included in octet 5 to octet n; Max value of 65535 octets.  Payload data contains the payload destined for the user or application.  A file URL is encoded as specified in IETF RFC 1738 [86].  The length of location information payload content is 6 bytes. First 3 bytes contain the latitude information and next 3 bytes contain the longitude information.  If the Payload content type is "LMR MESSAGE" then the first octet of the payload data is encoded as specified in Table 15.2.13-4. |

Table 15.2.13-4: First octet of Payload data for LMR MESSAGE Payload content type

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bits | | | | | | | |  |  |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | P25 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | TETRA |
|  |  |  |  |  |  |  |  |  |  |
| All other values are reserved. | | | | | | | | | |

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

### 17.2.1 Message definition

This clause specifies the payload to be used when sending an Interworking Security Data message between the IWF and MCData clients. The Interworking Security Data (InterSD) message is defined as a MONP message.

Message type: InterSD-MESSAGE

Direction: IWF to MCData client, MCData client to IWF

Table 17.2.1-1: Interworking Security Data message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | SDS signalling payload message identity | Message type 3GPP TS 24.282 [82] | M | V | 1 |
|  | External network type | 17.2.2 | M | V | 1 |
| 7D | URI of LMR key management functional entity | URI encoded as specified in IETF RFC 3986 [46] | O | TLV-E | 3-x |
| 78 | Payload | 3GPP TS 24.282 [82], clause 15.2.13 with Payload content type set to 'BINARY' | O | TLV-E | 3-x |

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