**3GPP TSG-CT WG1 Meeting #141eC1-23xxxx**

**Online 17– 21 April 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **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 |  |

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|  | | | | | | | | | | |
| ***Title:*** | Correcting references to different clauses | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_ProSe\_Ph2 | | | | |  | ***Date:*** | | | 2023-04-06 |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | Multiple references to different clauses are not correct | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correcting the references. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incomplete specifications. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.3.1.1, 10.3.3.1, 10.3.6.1, 10.3.7.1, 10.3.22.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\* First change \*\*\*\*\*

#### 10.3.1.1 Message definition

This message is sent by a UE to another peer UE to establish a direct link. See table 10.3.1.1.1.

Message type: PROSE DIRECT LINK ESTABLISHMENT REQUEST

Significance: dual

Direction: UE to peer UE

Table 10.3.1.1.1: PROSE DIRECT LINK ESTABLISHMENT REQUEST message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | PROSE DIRECT LINK ESTABLISHMENT REQUEST message identity | ProSe PC5 signalling message type  11.3.1 | M | V | 1 |
|  | Sequence number | Sequence number  11.3.2 | M | V | 1 |
|  | Source user info | Application layer ID  11.3.4 | M | LV | 2-256 |
|  | UE security capabilities | UE security capabilities  11.3.11 | M | LV | 3-9 |
|  | UE PC5 unicast signalling security policy | UE PC5 unicast signalling security policy  11.3.12 | M | V | 1 |
| 4F | MIC | MIC  11.3.38 | O | TV | 5 |
| 7B | ProSe identifiers | ProSe identifier  11.3.3 | O | TLV-E | 21-65538 |
| 74 | Key establishment information container | Key establishment information container  11.3.9 | O | TLV-E | 4-65538 |
| 56 | Nonce\_1 | Nonce  11.3.10 | O | TV | 17 |
| 5C | MSB of KNRP-sess ID | MSB of KNRP-sess ID  11.3.13 | O | TV | 2 |
| 28 | Target user info | Application layer ID  11.3.4 | O | TLV | 3-257 |
| 58 | KNRP ID | KNRP ID  11.3.14 | O | TV | 5 |
| 54 | Relay service code | Relay service code  11.3.26 | O | TV | 4 |
| 7D | UE identity | 5GS mobile identity  11.3.30 | O | TLV-E | 4-n |
| 64 | User security key ID | User security key ID  11.3.32 | O | TLV | 3-n |
| 2A | HPLMN ID | PLMN ID  11.3.33 | O | TLV | 5 |
| 2B | UTC-based counter LSB | UTC-based counter LSB  11.2.14 | O | TV | 2 |
| TBD | UE-to-UE relay UE user info | User info ID  11.3.39 | O | TLV | 3-257 |
| TBD | Target end UE layer-2 ID | Layer-2 ID  11.3.25 | O | TV | 4 |

Editor’s note: The security parameters for 5G ProSe UE-to-UE relay and the parameters for 5G ProSe layer-2 UE-to-UE relay are FFS.

\*\*\*\*\* Next change \*\*\*\*\*

#### 10.3.3.1 Message definition

This message is sent by the UE to another peer UE to indicate that the link establishment request is not accepted. See table 10.3.3.1.1.

Message type: PROSE DIRECT LINK ESTABLISHMENT REJECT

Significance: dual

Direction: UE to peer UE

Table 10.3.3.1.1: PROSE DIRECT LINK ESTABLISHMENT REJECT message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | PROSE DIRECT LINK ESTABLISHMENT REJECT message identity | ProSe PC5 signalling message type  11.3.1 | M | V | 1 |
|  | Sequence number | Sequence number  11.3.2 | M | V | 1 |
|  | PC5 signalling protocol cause | PC5 signalling protocol cause  11.3.8 | M | V | 1 |
| 5E | Back-off value | GPRS timer  11.3.27 | O | TV | 2 |
| 70 | EAP message | EAP message  11.3.31 | O | TLV-E | 7-1503 |
| ZZ | PC5 end UE failure cause | PC5 signalling protocol cause 2  11.3.41 | O | TLV | 3 |
| XY | Source end UE info | User info ID  11.3.39 | O | TLV | 3-257 |
| XZ | Target end UE info | User info ID  11.3.39 | O | TLV | 3-257 |
| XY | UE-to-UE relay UE info | User info ID  11.3.39 | O | TLV | 3-257 |

\*\*\*\*\* Next change \*\*\*\*\*

#### 10.3.6.1 Message definition

This message is sent by the UE to another peer UE to initiate the direct link modification procedure. See table 10.3.6.1.1.

Message type: PROSE DIRECT LINK MODIFICATION REQUEST

Significance: dual

Direction: UE to peer UE

Table 10.3.6.1.1: PROSE DIRECT LINK MODIFICATION REQUEST message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | PROSE DIRECT LINK MODIFICATION REQUEST message identity | ProSe PC5 signalling message type  11.3.1 | M | V | 1 |
|  | Sequence number | Sequence number  11.3.2 | M | V | 1 |
|  | Link modification operation code | Link modification operation code  11.3.19 | M | V | 1 |
|  | QoS flow descriptions | PC5 QoS flow descriptions  11.3.5 | M | LV-E | 5-65537 |
| 7C | QoS rules | PC5 QoS rules  11.3.29 | O | TLV-E | 7-65538 |
| XY | Source end UE info | User info ID  11.3.39 | O | TLV | 3-257 |
| XZ | Target end UE info | User info ID  11.3.39 | O | TLV | 3-257 |
| ZZ | Target end UE layer-2 ID | Layer-2 ID  11.3.25 | O | TV | 4 |

\*\*\*\*\* Next change \*\*\*\*\*

#### 10.3.7.1 Message definition

This message is sent by the UE to another peer UE to indicate that the link modification request is accepted. See table 10.3.7.1.1.

Message type: PROSE DIRECT LINK MODIFICATION ACCEPT

Significance: dual

Direction: UE to peer UE

Table 10.3.7.1.1: PROSE DIRECT LINK MODIFICATION ACCEPT message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | PROSE DIRECT LINK MODIFICATION ACCEPT message identity | ProSe PC5 signalling message type  11.3.1 | M | V | 1 |
|  | Sequence number | Sequence number  11.3.2 | M | V | 1 |
| 79 | QoS flow descriptions | PC5 QoS flow descriptions  11.3.5 | O | TLV-E | 6-65538 |
| 7C | QoS rules | PC5 QoS rules  11.3.29 | O | TLV-E | 7-65538 |
| XY | Source end UE info | User info ID  11.3.39 | O | TLV | 3-257 |
| XZ | Target end UE info | User info ID  11.3.39 | O | TLV | 3-257 |

\*\*\*\*\* Next change \*\*\*\*\*

#### 10.3.22.1 Message definition

This message is sent by the UE to another peer UE to indicate that the link modification request is not accepted. See table 10.3.22.1.1.

Message type: PROSE DIRECT LINK MODIFICATION REJECT

Significance: dual

Direction: UE to peer UE

Table 10.3.22.1.1: PROSE DIRECT LINK MODIFICATION REJECT message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | PROSE DIRECT LINK MODIFICATION REJECT message identity | ProSe PC5 signalling message type  11.3.1 | M | V | 1 |
|  | Sequence number | Sequence number  11.3.2 | M | V | 1 |
|  | PC5 signalling protocol cause | PC5 signalling protocol cause  11.3.8 | M | V | 1 |
| ZZ | PC5 end UE failure cause | PC5 signalling protocol cause 2  11.3.41 | O | TLV | 3 |
| XY | Source end UE info | User info ID  11.3.39 | O | TLV | 3-257 |
| XZ | Target end UE info | User info ID  11.3.39 | O | TLV | 3-257 |

\*\*\*\*\* End of changes \*\*\*\*\*