**3GPP TSG-CT WG1 Meeting #137-eC1-22xxxx**

**E-Meeting, 18th – 26th August 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **4617** | **rev** | **1** | **Current version:** | **17.7.1** |  |
|  | | | | | | | | |
| *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:*** | ProSe relay transaction identity as a type 3 IE | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_ProSe | | | | |  | ***Date:*** | | | 2022-07-04 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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 ProSe relay transaction identity (PRTI) IE shall be a type 3 IE since it consists of only a value field. However, the definition of the ProSe relay transaction identity IE is currently not complete, where the IEI is not indicated, and some text is missing or not needed, such as the text referring to subclause 5.5.x.. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Completing the definition of the ProSe relay transaction identity (PRTI) IE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Ambiguity regarding the type and definition of the PRTI IE remain in the spec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.11.3.88 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*\*

#### 9.11.3.88 ProSe relay transaction identity

The purpose of the ProSe relay transaction identity (PRTI) information element is to uniquely identify an authentication and key agreement procedure for 5G ProSe UE-to-network relay. The PRTI allows distinguishing up to 254 different bi-directional messages.

The ProSe relay transaction identity information element is coded as shown in figure 9.11.3.88.1 and table 9.11.3.88.1.

The ProSe relay transaction identity is a type 3 information element with a length of 2 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| ProSe relay transaction identity IEI | | | | | | | | octet 1 |
| ProSe relay transaction identity value | | | | | | | | octet 2 |

Figure 9.11.3.88.1: ProSe relay transaction identity information element

Table 9.11.3.88.1: ProSe relay transaction identity information element

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
| ProSe relay transaction identity value (octet 2) | | | | | | | | | |
| Bits | | | | | | | | | |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | No ProSe relay transaction identity assigned |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | \ |
| to | | | | | | | |  | } ProSe relay transaction identity value |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  | / |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  | Reserved |
|  |  |  |  |  |  |  |  |  |  |

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