**3GPP TSG-CT WG1 Meeting #135-eC1-22xxxx**

**E-Meeting, 6th – 12th April 2022 *was* C1-222843**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.554** | **CR** | **0047** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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:*** |  | | | | | | | | | |
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| ***Source to WG:*** | , InterDigital | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | According to TS 33.503, during the procedure of PDU session secondary authentication of 5G ProSe layer-3 remote UE, upon successful security establishment, the 5G ProSe layer-3 UE-to-network relay sends a DCA (Direct Communication Accept) message that may include an indication that a PDU Session with secondary authentication is pending. Based on the indication in the DCA message, the 5G ProSe Remote UE may refrain from sending any data traffic over the PC5 link until successful completion of subsequent PDU Session secondary authentication.  However, according TS 23.304 and TS 24.554, the remote UE report procedure is triggered AFTER the completion of the DCR procedure which means it is not possible to use DCA to convey the pending indication.  Based on above, it proposes to add an EN to reflect the issue above to be addressed when defining the indication IE. | | | | | | | | |
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| ***Summary of change:*** | | Define the new IE Pending indication information element. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | An indication that a PDU Session with secondary authentication is pending is not defined. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 11.3.xx (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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

### 11.3.xx Pending indication

The purpose of the Pending indication information element is to indicate that PDU session authentication and authorization procedure for the 5G ProSe layer-3 remote UE via 5G ProSe layer-3 UE-to-network relay is pending.

Editor's note: It is FFS which PC5 link signalling message is used to convey the Pending indication or if there is any another approach to achieve the desired behavior.

The Pending indication information element is coded as shown in figure 9.11.3.xx.1 and table 9.11.3.xx.1.

The Pending indication is a type 1 information element.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Pending indication IEI | | | | 0  Spare | 0  Spare | 0 | PI | octet 1 |

Figure 11.3.xx.1: Pending indication

Table 11.3.xx.1: Pending indication information element

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| --- |
| Pending indication (PI) (octet 1, bit 1)  Bit  **1**  0 PDU session authentication and authorization procedure for the 5G ProSe layer-3 remote UE is not pending.  1 PDU session authentication and authorization procedure for the 5G ProSe layer-3 remote UE is pending.  Bits 2 to 4 of octet 1 are spare and shall be coded as zero. |
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\* \* \* End of Changes \* \* \* \*