**3GPP TSG-CT WG1 Meeting #135-eC1-222566**

**E-Meeting, 6th – 12th April 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.554** | **CR** | **0006** | **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:***  | L2 relay not using authentication over PC5 |
|  |  |
| ***Source to WG:*** | OPPO |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5G\_ProSe |  | ***Date:*** | 2022-3-16 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | In clause 6.3.4 of TS 33.503, the UP/CP authentication can be also applied to L2 relay during the link establishment.In clause 7.2.12.1 of TS 24.554, there is a NOTE to say the authentication procedure over PC5 is not appliced to L3 relay.So this NOTE should be changed to also mention L2 relay is not applied. |
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| ***Summary of change:*** | Clarity L2 relay also does not use the authentication over PC5. |
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| ***Consequences if not approved:*** | Not align with stage 2 requirements. |
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| ***Clauses affected:*** | 7.2.12.1 |
|  |  |
|  | **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 \* \* \* \*

#### 7.2.12.1 General

The 5G ProSe direct link authentication procedure is used to perform mutual authentication of UEs establishing a 5G ProSe direct link and to derive a new KNRP shared between two UEs during a 5G ProSe direct link establishment procedure or a 5G ProSe direct link re-keying procedure. After successful completion of the 5G ProSe direct link authentication procedure, the new KNRP is used for security establishment during the 5G ProSe direct link security mode control procedure as specified in clause 7.2.10. The UE sending the PROSE DIRECT LINK AUTHENTICATION REQUEST message is called the "initiating UE" and the other UE is called the "target UE".

NOTE: The 5G ProSe direct link authentication procedure is applicable for neither 5G ProSe layer-3 UE-to-network relay nor 5G ProSe layer-2 UE-to-network relay.

\* \* \* End of Changes \* \* \* \*