**3GPP TSG-SA3 Meeting #108-e *draft\_S3-222074-r3***

**e-meeting, 22 - 26 August 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.503** | **CR** | **0023** | **rev** | **<Rev#>** | **Current version:** | **17.0.1** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Resolution of the issue of authentication mechanism selection | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon, Interdigital, Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_ProSe | | | | |  | ***Date:*** | | | 2022-08-15 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | There is an EN on choice of authentication mechanism for 5G ProSe UE to Network Relay communication. And in TS 23.304, it has defined how to determine the security mechanism for 5G ProSe UE to Network Relay communication. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Detele the EN and add the choice of authentication mechanism for 5G ProSe UE to Network Relay communication.  Merger fo S3-221760. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Choice of authentication mechanism for 5G ProSe UE to Network Relay communication is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.3.1. | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

## 6.3 Security for 5G ProSe UE-to-Network Relay Communication

### 6.3.1 General

This clause describes the security requirements and the procedures that are specifically applied to 5G ProSe UE‑to‑Network Relay communication defined in TS 23.304 [2]. The security requirements for 5G ProSe Layer‑3 UE-to-Network Relay and 5G ProSe Layer-2 UE-to-Network Relay are different and are defined in clause 6.3.3 and clause 6.3.4 respectively.

There are two security mechanism options for 5G ProSe UE-to-Network Relay: security procedure over User Plane as defined in clause 6.3.3.2 and security procedure over Control Plane as defined in clause 6.3.3.3. The 5G ProSe remote UE and 5G ProSe UE-to-Network Relay can determine the security mechanism based on the Control Plane Security Indicator associated with the RSC, the Control Plane Security Indicator and the associated RSC are specified in clause 5.1.4.3.2 of TS 23.304 [2].

The functionality in this clause is supported by both 5G ProSe-enabled UEs for commercial services and public safety.

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