**3GPP TSG-SA3 Meeting #123 S3-252969-r1**

**Goteborg, Sweden, 25 – 29 August 2025**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.503** | **CR** | **0223** | **rev** | **-** | **Current version:** | **19.1.0** |  |
|  | | | | | | | | |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <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:*** | Remove duplicated descriptions about authorization in multi-hop relay | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Telecom | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | **5G\_ProSe\_Sec\_Ph3** | | | | |  | ***Date:*** | | | 2025-8-18 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **D** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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 security requirements for multi-hop relay as described in clause 6.3.8.1 and 6.6.5.1 has duplicated descriptions about security requirements. The description “authorization and authorisation of the UEs” shall be change to “authentication and authorization of the UEs”. | | | | | | | | |
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| ***Summary of change:*** | | Change the description “authorization and authorisation of the UEs” to “authentication and authorization of the UEs”. | | | | | | | | |
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| ***Consequences if not approved:*** | | The authentication requirement for multi-hop relay will be missed. | | | | | | | | |
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| ***Clauses affected:*** | | 6.3.8.1, 6.6.5.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* \* \* 1st change \* \* \* \*

#### 6.3.8.1 Security requirements

The following security requirements apply to 5G ProSe multi-hop UE-to-Network Relay:

- The 5G System shall support the authentication and authorization of the UEs involving in the 5G ProSe multi-hop UE-to-Network Relay communication.

- The 5G System shall support confidentiality protection, integrity protection, and replay protection of the messages in the 5G ProSe multi-hop UE-to-Network Relay communication sceanrio.

- The 5G System shall provide means for mitigating trackability and linkability attacks on UEs involving in the 5G ProSe multi-hop UE-to-Network Relay communication.

\* \* \* \* 2nd change \* \* \* \*

#### 6.6.5.1 Security requirements

The following security requirements apply to 5G ProSe Layer-3 multi-hop UE-to-UE Relay:

- The 5G System shall support the authentication and authorization of the UEs in the 5G ProSe Layer-3 multi-hop UE-to-UE Relay communication scenario.

- The 5G System shall support confidentiality protection, integrity protection, and replay protection for secure communication messages in the 5G ProSe Layer-3 multi-hop UE-to-UE Relay communication scenario.

- The 5G System shall provide means for mitigating trackability and linkability attacks on 5G ProSe End UEs during communications over UE-to-UE Relays.

\* \* \* \* End of change(s) \* \* \* \*