**3GPP TSG-SA3 Meeting #115 *S3-240734***

Athens, Greece, 26th February - 1st March 2024

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *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:***  | Update on UE role authorization during discovery |
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| ***Source to WG:*** | Qualcomm Incorporated, InterDigital |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | Ranging\_SL\_Sec |  | ***Date:*** | 2024-02-16 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** | Rel-18 |
|  | *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:*** | According to clause 5.1.1 of TS 23.586, the authorized UE role is provisioned to the UE as a policy/parameter provisioning procedure. Therefore, if the authorized UE role is already available in the UE, the UE role authorization via SLPKMF may not be needed. However, according to the clause 6.3.3, it only specifies the UE role authorization procedures via the network. |
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| ***Summary of change:*** | The role of the UE can be authorized by either the SLPKMF or based on the locally configured authorization information in the UE.When the UE role authorization via SLPKMF is used, the authorization information is either retrieved from the UDM or based on local configuration at SLPKMF. |
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| ***Consequences if not approved:*** | Lack of description on the case where the UE is providioned with the authorized UE role. Lack of description on the case where the SLPKMF gets the authorization information based on local configuration.  |
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| ***Clauses affected:*** | 6.3.3 |
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|  | **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:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\* START OF 1st CHANGE\*\*\*\*\*\*\*

### 6.3.3 Procedures of UE role authorization for discovery

For ProSe capable UEs, the role of the UE shall be authorized by the network during the procedure of discovery security materials provisioning. The UE role authorization shall be performed via the SLPKMF in VPLMN through Discovery Key Request/Response messages during the security procedure for Ranging/SL positioning discovery as defined in clause 6.2.3 when the UE role is included in the Discovery Key Request. The authorization information used to check whether the UE is allowed to act the announced role in a Ranging/SL positioning service is included in UE subscription data ~~or provisioned to the UE~~ based on TS 23.586 [2]. The SLPKMF may retrieve subscription information from the UDM along with security policy for role assignment in VPLMN for authorizing the role of the UE. After UE role authorization check, the SLPKMF should digitally signed the role and provisions discovery security materials to the UE, which indicates the successful authorization of the requested UE role.

If the UE announces its role to the peer UE(s) in DCR and DCA messages, the UE role authorization may be performed by the peer UE against its locally configured information, which can be provisioned by the application. If the UE role is not acceptable, the peer UE shall discard or reject the request directly.

\*\*\*\*\*\*\*\*\*\*\*\* END OF 1st CHANGE\*\*\*\*\*\*\*