**3GPP TSG-SA3 Meeting #116 *draft\_S3-242466-r1***

Jeju, South Korea, 20th - 24th May 2024 revision of S3-242128+S3-242097

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  | **33.533** | **CR** | **0070** | **rev** | **-** | **Current version:** | **18.2.0** |  |
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| *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:***  | Completing the Privacy Check of n UEs for Service Exposure to Client UE |
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| ***Source to WG:*** | Xiaomi, OPPO |
| ***Source to TSG:*** | S3 |
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| ***Work item code:*** |  |  | ***Date:*** | 2024-05-13 |
|  |  |  |  |  |
| ***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:*** | The authorization procedure for service exposure to the Client UE sepcified in clause 6.3.6.3 of TS 33.533 covers two authorization phases. The first phase is to authorze the Client UE for service access, which is performed during PC5 link establishment. The next phase is to check UE privacy after PC5 link establishment with successful service access authorization. These two phases need to be elaborated in a clearer manner to avoid misunderstanding in other WGs (e.g. SA2). Hence, it is proposed to update the current description in 6.3.6.3 accordingly.Addtionally, in current version of TS 33.533, the handling of privacy check of n UEs is specified for network-based operation procedure in clause 6.3.5.0. However, the handling of privacy check of n UEs for UE-only operation in 6.3.6.3 is not completed yet. Hence, it is proposed to add more text on handling of privack check of n UE for UE-only operation to complete the procedure. |
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| ***Summary of change:*** | Updated the current description in 6.3.6.3 to elaborate the different phases of authorization for service exposure to the Client UE.Added additional text to complete the procedure for privacy check of n UEs for service exposure to the Client UE via PC5. |
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| ***Consequences if not approved:*** | Unclear description on the authorization procedure for service exposure to the Client UE in clause 6.3.6.3 has led to some misunderstanding in other WGs.The privacy check of n UEs for UE-only operation is unspecified, leading to imcomplete specification. |
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| ***Clauses affected:*** | 6.3.6.3 |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of the Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 6.3.6.3 Authorization procedure for Ranging/SL positioning service exposure through PC5

For Ranging/SL Positioning service exposure through PC5 (i.e. clause 6.7.1.1 of TS 23.586 [2]), the SL Positioning Client UE authorization is triggered by the Reference/Target UE during PC5 link establishment. The authorization for service access can be performed by the network via the SLPKMF for ProSe capable UEs according to clause 6.4.3.3 or by the Reference/Target UE if the authorization information is available in the UE.

If the Client UE is not authorized to access Ranging/SL Positioning service, the PC5 link between the Client UE and the Reference/Target UE shall not be established.

For UE-only operation or before triggering SL-MO-LR for Network based operation, to preserve the privacy of the Target/Reference UEs, the UE1 (i.e. Target UE or SL Reference UE receiving the Ranging/SL positioning request as in clause 6.8 of TS 23.586 [2]) shall send a supplementary RSPP signalling message to UE2/../UEn respectively to trigger privacy check for Ranging/SL positioning service exposure through PC5. The supplementary RSPP signalling message shall include Client UE's user info ID that is received by UE1 from the Client UE. The UE1 and UE2/../UEn shall perform UE privacy check as described in clause 6.3.7 to determine whether their location related information can be exposed to Client UE. If none of the n UEs grants permission for exposure to the Client UE, the UE1 shall reject the Ranging/SL Positioning service request from Client UE. If all of the n UEs grant permission for exposure to the Client UE, the UE1 shall proceed with the Ranging/SL positioning service request from the Client UE. If part of the n UEs return positive privacy check results and part of n UEs return negative privacy check results, UE1 shall determine to accept or reject the service request based on the privacy check results of the n UEs and a criterion up to UE implementation (e.g. a rule from application layer).

If the Client UE is authorized as per UE privacy check, UE1 shall send the Ranging/SL positioning request to the selected LMF or SL Positioning Server UE by including only the identities of UE2/../UEn returning positive privacy check results (step #6 of TS 23.586 [2] clauses 6.7.1.1 and 6.8). If the Client UE is not authorized as per UE privacy check, the Ranging/SL Positioning service request shall be rejected by UE1.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of the Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*