**3GPP TSG-SA3 Meeting #115 *draft\_S3-240929-r2***

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

(merger of S3-240753 and S3-240343)

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.533** | **CR** | **0057** | **rev** | **-** | **Current version:** | **18.1.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | UE Privacy handling for service exposure through PC5 |
|  |  |
| ***Source to WG:*** | Ericsson, Huawei, OPPO, Philips International B.V., Xiaomi |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | Ranging\_SL\_Sec |  | ***Date:*** | 2024-02-19 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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:*** | Based on SA2 LS reply S2-2401651, this paper proposes to solve the privacy handling of UEs for Ranging/SL positioning service exposure through PC5. |
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| ***Summary of change:*** | For UE-only Operation or before triggering SL-MO-LR for Network based operation, the target/reference UE performs privacy check based on the local configured privacy verification information to determine whether its location related information can be exposed to Client UE. |
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| ***Consequences if not approved:*** | Missing privacy verification procedure for Ranging /SL Positioning service request. |
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| ***Clauses affected:*** | 6.3.6.3 |
|  |  |
|  | **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 the 1st 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 can be performed by the network via the SLPKMF for ProSe capable UEs or by the Reference/Target UE if the authorization information is available in the UE.

For UE-only operation or before triggering SL-MO-LR for Network based operation, the UE1 receiving the Ranging/SL positioning request shall send a supplementary RSPP signalling message to UE2/../UEn to trigger privacy check for Ranging/SL positioning service exposure through PC5. The supplementary RSPP 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 the Client UE is not authorized, the Ranging/SL Positioning service request shall be rejected.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of the 2nd Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 6.3.7 Procedure of UE privacy verification for UE-only operation

For UE-only Operation in which the network is not involved in Ranging/Sidelink positioning, the authorization for UE privacy is based on the local configured privacy verification information to determine whether its location related information can be exposed to the peer UE and/or a SL Positioning Client UE or not. If the privacy profile allows location exposure, the UE (e.g. Located UE) accepts the request to expose its location related information and proceeds.
To enable privacy check of exposure to a SL Positioning Client UE via the peer UE, the peer UE shall include the user info ID of the SL Positioning Client UE in the supplementary RSPP signalling message to the UE from which the location information or related results are to be exposed.

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