**3GPP TSG-SA3 Meeting #116 *draft\_S3-242468-r2***

Jeju, South Korea, 20th - 24th May 2024 revision of S3-242131

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **33.533** | **CR** | **0073** | **rev** | **-** | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network | **X** | Core Network | **X** |

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| ***Title:*** | Updating RSPP broadcast/groupcast to SLPP broadcast/groupcast | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Xiaomi | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 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)* | |
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| ***Reason for change:*** | | According to the note in clause 6.4.1 of TS 33.533, RSPP messages includes SLPP signalling messages, supplementary service messages and supplementary RSPP signalling messages. The security requirements on broadcast/ groupcast communication over RSPP in 6.4.2 were originally defined for SLPP broadcast/groupcast signalling messages discussed in RAN2, but not for supplementary service messages and supplementary RSPP signalling messages. Hence the current wording of broadcast/ groupcast communication over RSPP in 6.4.2 and 6.4.4 is not accurate and needs to be updated.  In addition, according to the Revised WID on Expanded and Improved NR Positioning in RP-232670 approved at RAN#101, RAN specification on the protocol and procedures for SL positioning between UEs (SLPP) is restricted to unicast session-based signalling procedure only in Release 18. It means that SLPP broadcast and groupcast signalling procedures are not supported in Release 18.  However, security requirements and procedures for SLPP broadcast and groupcast signalling procedures have already been specified in current release of TS 33.533. In order to align with the updated scope of features supported by RAN WGs, it is proposed to add notes in the corresponding clauses of TS 33.533 indicating that security for SLPP broadcast and groupcast signalling procedures is not applicable in this release of the specification. | | | | | | | | |
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| ***Summary of change:*** | | Updated the wording of broadcast/groupcast communication over RSPP in 6.4.2.  Added the notes in clauses 6.4.2 indicating that security for SL Positioning broadcast/groupcast signalling is not applicable in this release of the specification. | | | | | | | | |
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| ***Consequences if not approved:*** | | Applicability of the security requirements is not completely correct.  Security requrements and procedures are specified for the features not supported in Release 18. | | | | | | | | |
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| ***Clauses affected:*** | | 6.4.2 | | | | | | | | |
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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 the 1st Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 6.4.2 Security requirements

The 5G system shall support mutually authentication between the UEs during unicast direct communication establishment for Ranging/SL Positioning control over RSPP.

The 5G system shall support integrity, confidentiality and anti-replay protection for the information transferred during unicast direct communication for Ranging/SL Positioning control over RSPP.

The 5G system shall support cryptographic separation for each SR5 interface and for each peer UE during unicast direct communication for Ranging/SL Positioning control over RSPP.

The 5G system shall support integrity, confidentiality and anti-replay protection for the information transferred during unicast communication for Ranging/SL Positioning control over the protocol between the UE and LMF.

The 5G system shall support a means to provide confidentiality, integrity and anti-replay protection of SL positioning broadcast/groupcast signalling.

The 5G system shall provide a means to mitigate trackability and linkability attacks of the UE during SL Positioning broadcast/ groupcast signalling procedures.

NOTE: SL Positioning broadcast/groupcast signalling procedures are not supported in this release.

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