**3GPP TSG-SA3 Meeting #115 *draft\_S3-240803-r4***

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

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.533** | **CR** | **0065** | **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 | **X** | Radio Access Network | **X** | Core Network | **X** |

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| ***Title:*** | Adding notes for Ranging/SL positioning broadcast/groupcast communication | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | 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 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:*** | | SA2 has agreed (i.e. S2-2401392) to update the definition of RSPP to include both SLPP and supplementary service messages. It is proposed to align TS 33.533 with this new definition. | | | | | | | | |
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| ***Summary of change:*** | | Added clarification on the difference between RSPP and SLPP and updated the term for Ranging/SL positioning broadcast/groupcast communication for SLPP. | | | | | | | | |
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| ***Consequences if not approved:*** | | Inconsistency between RSPP and SLPP definition in SA2 and SA3 specifications. | | | | | | | | |
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| ***Clauses affected:*** | | 2, 6.4.1, 6.4.2, 6.4.4.1 | | | | | | | | |
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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 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 6.4.1 General

Ranging/SL Positioning control is defined in TS 23.586 [2], which is supported by the Ranging/SL Positioning layer above the AS layer. The Ranging/SL Positioning layer provides the support of Ranging/SL Positioning Protocol (RSPP) between the UEs and between the UE and LMF for Ranging/SL Positioning.

Ranging/SL Positioning control over RSPP is performed on SR5 reference point between UEs. PC5-U is used as the transport layer for RSPP as specified in clause 5.3.2 of TS 23.586 [2]. Depending on type of the UE (V2X capable or 5G ProSe capable), V2X Communication procedures defined in TS 23.287 [5] or 5G ProSe Direct Communication procedures defined in TS 23.304 [4] are used for RSPP transport between UEs.

Ranging/SL Positioning control over the protocol between the UE and LMF is specified in clauses 6.20 of TS 23.273 [3].

NOTE:

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.586: "Architectural Enhancements to support Ranging based services and Sidelink Positioning".

[3] 3GPP TS 23.273: "5G System (5GS) Location Services (LCS); Stage 2".

[4] 3GPP TS 23.304: "Proximity based Services (ProSe) in the 5G System (5GS)".

[5] 3GPP TS 23.287: "Architecture enhancements for 5G System (5GS) to support Vehicle‑to‑Everything (V2X) services".

[6] 3GPP TS 33.503: "Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS)".

[7] 3GPP TS 38.355: " NR; Sidelink Positioning Protocol (SLPP); Protocol Specification".

[8] 3GPP TS 33.536: "Security aspects of 3GPP support for advanced Vehicle-to-Everything (V2X) services".

[9] 3GPP TS 33.303: "Proximity-based Services (ProSe); Security aspects".

[10] 3GPP TS 33.535: "Authentication and Key Management for Applications (AKMA) based on 3GPP credentials in the 5G System (5GS)".

[11] 3GPP TS 33.501: "Security architecture and procedures for 5G System".

[12] 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA)".

[X] 3GPP TS 24.080: "Mobile radio interface layer 3 supplementary services specification; Formats and coding".

[Y] 3GPP TS 24.514: "Ranging based services and sidelink positioning in 5G system(5GS); Stage 3".

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