**3GPP TSG-SA WG2 Meeting #160S2-2313462**

**Chicago, USA, Nov 13 – 17, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **23.586** | **CR** | **0082** | **rev** | **1** | **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 |  | Core Network |  |

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| ***Title:*** | Update on Ranging/SL Positioning QoS | | | | | | | | | |
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| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | SA2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Ranging\_SL | | | | |  | ***Date:*** | | | 2023-11-03 |
|  |  | | | |  | |  | | |  |
| ***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) …*g (rapporteur): Rel-18 *Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In LS from RAN2 ( R2-2309343/ S2-2310123), RAN2 defines 8 priority levels for SL-PRS priority, same as the number of priority levels for SL-SCH. RAN2 understand that the SL-PRS priority levels are mapped from the sidelink positioning/ranging QoS.  This paper proposes to define priority level as the Ranging/SL Positioning QoS parameter.  Rev1:  Put both Delay Budget and priority level into as part of the QoS parameters and sent to the AS layer, and the detailed usage of such parameters will be defined by RAN spec 38.355. | | | | | | | | |
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| ***Summary of change:*** | | priority level as the Ranging/SL Positioning QoS parameter  Rev1:  Besides the priority level, also add delay budget. | | | | | | | | |
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| ***Consequences if not approved:*** | | SA2 description is not aligned with RAN2 agreement. | | | | | | | | |
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| ***Clauses affected:*** | | 5.7.2 | | | | | | | | |
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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:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

5.7.2 Handling of Ranging/SL Positioning QoS

Ranging/SL Positioning QoS requirement may be provided in the Ranging/SL Positioning service request generated at the application layer, and is provided from the application layer to the Ranging/SL Positioning layer. Ranging/SL Positioning QoS requirement may be included in the Ranging/SL Positioning Service request from SL Positioning Client UE.

The Ranging/SL Positioning layer maps the Ranging/SL Positioning QoS requirement to the Ranging/SL Positioning QoS parameters and provides the Ranging/SL Positioning QoS parameters to the AS layer. If there is no received Ranging/SL Positioning QoS requirement from the application layer, the Ranging/SL Positioning layer determines the Ranging/SL Positioning QoS parameters based on the Ranging/SL positioning Policy/parameters as configured in the clause of 5.1.

Ranging/SL Positioning QoS parameters contain attributes defined in clause 4.1b of TS 23.273 [8] with the following additions:

- The accuracy attribute also includes

- the relative horizontal accuracy, and the relative vertical accuracy for relative positioning;

- the distance accuracy and direction accuracy for Ranging.

- Range, which indicates the applicability of the QoS attributes in the Ranging/SL Positioning operation over PC5.

- Priority level

- Delay Budget.

NOTE: The usage of Priority level and Delay Budget is described in TS 38.355 [12].

Ranging/SL Positioning QoS parameters are used for determination of Ranging/SL Positioning method. The Ranging/SL Positioning methods are defined in TS 38.355 [12].

\* \* \* \* End of changes \* \* \* \*