**3GPP TSG-SA5 Meeting #155 *S5-244228***

**Maastricht, NL, 19 - 23 August 2024**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.271** | **CR** | **0026** | **rev** | **-** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *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:*** | Introduction of converged charging information for Ranging and Sidelink Positioning | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Telecom | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Ranging\_SL\_CH | | | | |  | ***Date:*** | | | 2024-08-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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:*** | | The converged charging information for Ranging and Sidelink Positioning is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add converged charging information for Ranging and Sidelink Positioning converged charging | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Charging for Ranging and Sidelink Positioning will not be supported | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.3.1.x (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| **First change** |

## 6.3 LCS charging specific parameters

### 6.3.1 Definition of LCS charging information

#### 6.3.1.0 General

The LCS Information parameter used for LCS charging is provided in the Service Information parameter.

#### 6.3.1.1 LCS charging information assignment for Service Information

The components in the Service Information that are use for LCS charging can be found in Table 6.3.1.1.

Table 6.3.1.1.1: Service Information used for LCS Charging

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| --- | --- | --- |
| Information Element | Category | Description |
| Service Information | OM | A set of fields hold the 3GPP specific parameter  as defined in TS 32.299 [50]. |
| Subscriber Identifier | OM | Used as defined in TS 32.260 [20]. |
| LCS Information | OM | This field holds a set of MMTel services with theirs specific parameters.  The details are defined in clause 6.3.1.2. |

#### 6.3.1.2 Definition of the LCS Information

LCS specific charging information is provided within the LCS Information, and the detailed structure of the LCS Information can be found in table 6.3.1.2.1.

Table 6.3.1.2.1: Structure of the LCS Information

|  |  |  |
| --- | --- | --- |
| Information Element | Category | Description |
| LCS Client ID | OC | This field holds the ID of the LCS client that invoked the LR, if available. |
| Location Type | OC | This field holds the type of location information being requested in case of MT-LR. |
| Location Estimate | OC | This field denotes the location of an MS in universal coordinates and  the accuracy of the estimate upon succesful MO-LR. |
| Positioning Data | Oc | This field indicates the positioning method that was attempted  to determine the location estimate for MO-LR, if available. |

#### 6.3.1.x Definition of Ranging and Sidelink Positioning Charging Information

Ranging and Sidelink Positioning specific charging information is provided within the Ranging and Sidelink Positioning Charging Information, and the detailed structure of the Ranging and Sidelink Positioning Charging Information can be found in table 6.3.1.x.1.

Table 6.3.1.x.1: Structure of the Ranging and Sidelink Positioning Charging Information

|  |  |  |
| --- | --- | --- |
| Information Element | Category | Description |
| Target UE ID | OC | The identity of Target UE in Ranging/Sidelink positioning |
| SL Reference UE ID | OC | The identity of SL Reference UE in Ranging/Sidelink positioning |
| SL Positioning Server UE ID | OC | The identity of SL Positioning Server UE in Ranging/Sidelink positioning |
| Located UE ID | OC | The identity of Located UE in Ranging/Sidelink positioning |
| Location Type | OC | This field holds the type of location information being requested. |
| Location Estimate | Oc | This field denotes the location of a Target UE and the requested accuracy of the estimate. |

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| **End of changes** |