**3GPP TSG-SA5 Meeting #155 *S5-244229rev1***

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

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.271** | **CR** | **0027** | **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 Detailed message format for Ranging and Sidelink Positioning converged charging | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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:*** | | Detailed message format for Ranging and Sidelink Positioning converged charging is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add detailed message format for Ranging and Sidelink Positioning converged charging | | | | | | | | |
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| ***Consequences if not approved:*** | | Charging for Ranging and Sidelink Positioning will not be supported | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.3.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.x Detailed message format for converged charging

The following clause specifies per Operation Type the charging data for LCS converged charging.

The Operation types are listed in the following order: I [Initial] / U (Update)/T [Termination]/E [event]. Therefore, when all Operation types are possible it is marked as IUTE. If only some Operation types are allowed for a node, only the appropriate letters are used (e.g. IUT or E) as indicated in the table heading. The omission of an Operation type for a particular field is marked with "-" (e.g. I-E). Also, when an entire field is not allowed in a node the entire cell is marked as "-".

Table 6.3.x.1 illustrates the basic structure of the supported fields in the Charging Data Request for LCS converged charging.

Table 6.3.x.1: Supported fields in Charging Data Request message

| Information Element | Node Type | SL Positioning involving 5GC | Ranging/SL Positioning service exposure |
| --- | --- | --- | --- |
| Supported Operation Types | E | E |
| Session Identifier | | E | E |
| Subscriber Identifier | | E | E |
| Tenant Identifier | | E | E |
| NF Consumer Identification | | E | E |
| NF Functionality | | E | E |
| NF Name | | E | E |
| NF Address | | E | E |
| NF PLMN ID | | E | E |
| Charging Identifier | | E | E |
| Invocation Timestamp | | E | E |
| Invocation Sequence Number | | E | E |
| One-time Event | | E | E |
| One-time Event Type | | E | E |
| Supported Features | | E | E |
| Service Specification Information | | E | E |
| Multiple Unit Usage | | E | E |
| Rating Group | | E | E |
| Requested Unit | | E | E |
| Ranging and Sidelink Positioning Information | | E | E |

Table 6.3.x.2 illustrates the basic structure of the supported fields in the Charging Data Response for LCS converged charging.

Table 6.3.x.2: Supported fields in *Charging Data Response* Message

| Information Element | Node Type | SL Positioning involving 5GC | Ranging/SL Positioning service exposure |
| --- | --- | --- | --- |
| Supported Operation Types | E | E |
| Session Identifier | | E | E |
| Invocation Timestamp | | E | E |
| Invocation Result | | E | E |
| Invocation Result | | E | E |
| Failed parameter | | E | E |
| Failure Handling | | E | E |
| Invocation Sequence Number | | E | E |
| Session Failover | | E | E |
| Supported Features | | E | E |
| Multiple Unit Usage | | E | E |
| Result Code | | E | E |
| Rating Group | | E | E |
| Validity Time | | E | E |

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| **End of changes** |