**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 canbe 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:*** | Detailed message format for Ranging and Sidelink Positioning converged charging is missing. |
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| ***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 ...  |
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| ***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** |