**3GPP TSG-SA5 Meeting #155 *S5-244229rev2***

**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 |
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| ***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 |
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| ***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 Ranging and Sidelink Positioning 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 Ranging and Sidelink Positioning converged charging.

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

| Information Element | Node Type | GMLC |
| --- | --- | --- |
| Supported Operation Types | E |
|  |  |
| Subscriber Identifier | E |
| Tenant Identifier | E |
| NF Consumer Identification | E |
| NF Functionality | E |
| NF Name | E |
| NF Address | E |
| NF PLMN ID | E |
| Charging Identifier | E |
| Invocation Timestamp | E |
| Invocation Sequence Number | E |
| One-time Event | E |
| One-time Event Type | E |
| Retransmission Indicator | E |
| Supported Features | E |
| Service Specification Information | E |
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| Ranging and Sidelink Positioning Information | E |

Table 6.3.x.2 illustrates the basic structure of the supported fields in the Charging Data Response for Ranging and Sidelink Positioning converged charging.

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

| Information Element | Node Type | GMLC |
| --- | --- | --- |
| Supported Operation Types | E |
| Session Identifier | E |
| Invocation Timestamp | E |
| Invocation Result | E |
| Invocation Result | E |
| Failed parameter | E |
| Failure Handling | E |
| Invocation Sequence Number | E |
| Session Failover | E |
| Supported Features | E |
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| **End of changes** |