**3GPP TSG-SA5 Meeting #133e *S5-205027***

**e-meeting 12th - 21th October 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.201** | **CR** | **0002** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Correction of the Category and Operation Types | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Telecommunications Corporation | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GS\_NSPACH | | | | |  | ***Date:*** | | | 2020-09-29 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | Subscriber Identifier is not applicable,therefore, the Category for converged charging is ‘-’  The Category and Operation Types for some some items are inconsistent. | | | | | | | | |
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| ***Summary of change:*** | | （1）In Table 6.1.1.2-1 about Category for converged charging  Modify the Category of Subscriber Identifier from ' OM ' to '-',  （2）In Table 6.1.1.2-1 about Supported Operation Types of Supported fields  Modify the Operation Types of Subscriber Identifier from ' E ' to '-',  Modify the Operation Types of Session Identifier from '- ' to 'E ',  Add new Item:Tenant Identifier with the Operation Types 'E ' | | | | | | | | |
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| ***Consequences if not approved:*** | | the difference between Category and Operation Types will cause confusion | | | | | | | | |
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| ***Clauses affected:*** | | 6.1.1.2, 6.2.3 | | | | | | | | |
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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:*** | |  | | | | | | | | |

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| **First modification** |

#### 6.1.1.2 Charging Data Request message

Table 6.1.1.2-1 illustrates the basic structure of a Charging Data Request message from the CEF as used for performance and analytics based charging.

Table 6.1.1.2-1: Charging Data Request message contents

| Information Element | Category for converged charging | Description |
| --- | --- | --- |
| Session Identifier | OC | Described in TS 32.290 [57]. |
| Subscriber Identifier | - | This field is not applicable. |
| Tenant Identifier | OM | This field if present is the identifier of subscriber of network slice. |
| NF Consumer Identification | M | Described in TS 32.290 [57]. |
| NF Functionality | M | Described in TS 32.290 [57]. |
| NF Name | OC | Described in TS 32.290 [57]. |
| NF Address | OC | Described in TS 32.290 [57]. |
| NF PLMN ID | OC | Described in TS 32.290 [57]. |
| Invocation Timestamp | M | Described in TS 32.290 [57]. |
| Invocation Sequence Number | - | This field is not applicable. |
| Retransmission Indicator | - | This field is not applicable. |
| One-time Event | OC | Described in TS 32.290 [57]. |
| One-time Event Type | OC | Described in TS 32.290 [57]. |
| Notify URI | - | This field is not applicable. |
| Service Specification Information | OC | Described in TS 32.290 [57]. |
| Triggers | OC | Described in TS 32.290 [57]. |
| Multiple Unit Usage | OM | Described in TS 32.290 [57], with the exception that quota management is not applicable. |
| Rating Group | M | Described in TS 32.290 [57] |
| Requested Unit | - | This field is not applicable. |
| Used Unit Container | OC | Described in TS 32.290 [57] |
| Service Identifier | - | This field is not applicable. |
| Quota management Indicator | - | This field is not applicable. |
| Triggers | OC | This field is described in TS 32.290 [57] and holds the network slice performance and analytics specific triggers described in clause 5.2.1. |
| Trigger Timestamp | OC | Described in TS 32.290 [57] |
| Time | - | This field is not applicable. |
| Total Volume | - | This field is not applicable. |
| Uplink Volume | - | This field is not applicable. |
| Downlink Volume | - | This field is not applicable. |
| Service Specific Unit | - | This field is not applicable. |
| Event Time Stamps | - | This field is not applicable. |
| Local Sequence Number | OM | Described in TS 32.290 [57] |
| NSPA Container Information | OC | This field holds the network slice performance and analytics container specific information described in clause 6.2.1.3. |
| NSPA Charging Information | OC | This field holds the network slice information, which is reported to the CHF described in clause 6.2.1.2. |

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| **Next changes** |

### 6.2.3 Detailed message format for converged charging

The following clause specifies per Operation Type the charging data that are sent by CEF for network slice performance and analytics converged charging.

The Operation Types are listed in the following order: I (Initial)/T (Termination)/E (Event). Therefore, when all Operation Types are possible it is marked as ITE. If only some Operation Types are allowed for a node, only the appropriate letters are used (i.e. IT or E) as indicated in the table heading. The omission of an Operation Type for a particular field is marked with "-" (i.e. I-E). Also, when an entire field is not allowed in a node the entire cell is marked as "-".

Table 6.2.3-1 defines the basic structure of the supported fields in the *Charging Data Request* message for CEF converged charging.

Table 6.2.3-1: Supported fields in *Charging Data Request* message

| Information Element | Analytics and Performance | CEF |
| --- | --- | --- |
| Supported Operation Types | E |
| Session Identifier | | E |
| Subscriber Identifier | | - |
| Tenant Identifier | | E |
| NF Consumer Identification | | E |
| Invocation Timestamp | | E |
| Invocation Sequence Number | | - |
| Retransmission Indicator | | - |
| One-time Event | | E |
| One-time Event Type | | E |
| Notify URI | | - |
| Triggers | | E |
| Multiple Unit Usage | | E |
| Rating Group | | E |
| Used Unit Container | | E |
| Triggers | | E |
| NSPA Container Information | | E |
| NSPA Charging Information | | |
| Single NSSAI | | E |

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| **End of modifications** |