3GPP TSG SA WG5 Meeting 135-e TDoc S5-211126

electronic meeting, online, 25 January - 3 February 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.254** | **CR** | **0015** | **rev** | **1** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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:*** | Correction on Multiple Unit Usage | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GS\_Ph1\_NEFCH | | | | |  | ***Date:*** | | | 2021-01-15 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In the description of Charging Data request/response for NEF API converged charging the Multiple Unit Usage/ Multiple Unit Information are used for ECUR scenario, however there is an Editor's Note which needs to be solved. | | | | | | | | |
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| ***Summary of change:*** | | Add the details for Multiple Unit Usage and Multiple Unit Information  Complete reference to a clause | | | | | | | | |
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| ***Consequences if not approved:*** | | Incorrect charging for NEF APIs | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.2a.1.2.1, 6.2a.1.2.2, 6.2a.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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** |

##### 6.2a.1.2.1 Charging Data Request message

Table 6.2a.1.2.1.1 illustrates the basic structure of a Charging Data Request message as used for NEF converged charging.

Table 6.2a.1.2.1.1: Charging Data Request message contents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Information Element** | | **Category** | | **Description** | |
| Session Identifier | | OC | | Described in TS 32.290 [57] | |
| Subscriber Identifier | | OM | | Described in TS 32.290 [57], and holds the identifier of the AF | |
| NF Consumer Identification | | M | | Described in TS 32.290 [57] | |
| Invocation Timestamp | | M | | Described in TS 32.290 [57] | |
| Invocation Sequence Number | | M | | Described in TS 32.290 [57] | |
| Retransmission Indicator | | - | | This field is not applicable. | |
| One-time Event | | OC | | This field indicates, if included, that this is a one-time event and that there will be no update or termination. | |
| One-time Event Type | | OC | | Described in TS 32.290 [57]. | |
| Notify URI | | OC | | This field contains URI to which notifications are sent by the CHF. The latest received value shall always be used at notifications. | |
| Triggers | | OC | | This field is described in TS 32.290 [57] and holds the NEF specific triggers described in clause 5.x | |
| Multiple Unit Usage | | OC | | This field contains the parameters for the quota management request and/or usage reporting. | |
| Rating Group | | M | | Described in TS 32.290 [57] | |
| Requested Unit | | OC | | Described in TS 32.290 [57] | |
| Used Unit Container | | OC | | Described in TS 32.290 [57] | |
| NEF API Charging Information | | OM | | This field holds the NEF API specific information described in clause 6.3.1.4 | |

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| **Next change** |

##### 6.2a.1.2.2 Charging Data Response message

Table 6.2a.1.2.2.1 illustrates the basic structure of a Charging Data Response message as used for NEF converged charging.

Table 6.2a.1.2.2.1: Charging Data Response message content

|  |  |  |
| --- | --- | --- |
| **Information Element** | **Category** | **Description** |
| Session Identifier | OC | Described in TS 32.290 [57] |
| Invocation Timestamp | M | Described in TS 32.290 [57] |
| Invocation Result | OC | Described in TS 32.290 [57] |
| Invocation Sequence Number | M | Described in TS 32.290 [57] |
| Session Failover | OC | Described in TS 32.290 [57] |
| Triggers | - | Not applicable |
| Multiple Unit Information | OC | This field holds the parameters for the quota management information. |
| Result Code | OC | Described in TS 32.290 [57] |
| Rating Group | OM | Described in TS 32.290 [57] |
| Granted Unit | OC | Described in TS 32.290 [57] |
| Validity Time | OC | Described in TS 32.290 [57] |

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| **Next change** |

#### 6.2a.3.2 NEF charging CHF CDR data

If enabled, CHF CDRs for NEF charging shall be produced for NEF chargeable events.

The fields of NEF charging CHF CDR are specified in table 6.2a.3.2.1.

Table 6.2a.3.2.1: NEF charging CHF record data

|  |  |  |
| --- | --- | --- |
| **Field** | **Category** | **Description** |
| Record Type | M | Described in TS 32.298 [3] |
| Recording Network Function ID | OM | Described in TS 32.298 [3] |
| Subscriber Identifier | M | This field contains the identification of the API user (e.g. SCS Identifier) |
| NF Consumer Information | OC | This field holds the information of the NEF that used the charging service |
| Triggers | OC | This field is described in TS 32.298 [3] and holds the NEF specific triggers described in clause 5.x |
| List of Multiple Unit Usage | OM | Described in TS 32.298 [3] |
| Record Opening Time | OC | Described in TS 32.298 [3] |
| Duration | M | Described in TS 32.298 [3] |
| Record Sequence Number | C | Described in TS 32.298 [3] |
| Cause for Record Closing | M | Described in TS 32.298 [3] |
| Local Record Sequence Number | OM | Described in TS 32.298 [3] |
| Record Extensions | OC | Described in TS 32.298 [3] |
| NEF API Charging Information | OM | This field holds the NEF specific information defined in clause 6.3.1.4 |

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| **End of changes** |