3GPP TSG SA WG5 Meeting 137-e TDoc S5-213343

electronic meeting, online, 10 - 19 May 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.291** | **CR** | **0326** | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  | | | | | | | | |
| *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:*** | Correcting of local sequence number handling | | | | | | | | | |
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| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2021-05-17 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
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| ***Reason for change:*** | | The applicability of the local sequence number, i.e. within what is should be stepped is undefined. | | | | | | | | |
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| ***Summary of change:*** | | Stating that the local sequence number is set to 1 at charging data request initial or event. | | | | | | | | |
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| ***Consequences if not approved:*** | | The interpretation will be undefined which may lead to incorrect charging. | | | | | | | | |
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| ***Clauses affected:*** | | 6.1.6.2.1.10, 6.1.6.2.2.14 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 32.290 CR 0163 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revision of S5-213343. | | | | | | | | |

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| **First change** |

###### 6.1.6.2.1.10 Type UsedUnitContainer

Table 6.1.6.2.1.10-1: Definition of type UsedUnitContainer

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| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| serviceId | ServiceId | OC | 0..1 | This field identity of the used service |  |
| quotaManagementIndicator | QuotaManagementIndicator | OC | 0..1 | an indicator on whether the reported used units are with or without quota management control. If the attribute is not present, it indicates the used unit is without quota management applied. |  |
| triggers | array (Trigger) | OC | 0..N | This field specifies the reason for usage reporting for one or more types of unit associated to the rating group. |  |
| triggerTimestamp | DateTime | Oc | 0..1 | This field holds the timestamp when the reporting trigger occur. |  |
| time | Uint32 | OC | 0..1 | This field holds the amount of used time. |  |
| totalVolume | Uint64 | OC | 0..1 | This field holds the amount of used volume in both uplink and downlink directions. |  |
| uplinkVolume | Uint64 | OC | 0..1 | This field holds the amount of used volume in uplink direction. |  |
| downlinkVolume | Uint64 | OC | 0..1 | This field holds the amount of used volume in downlink direction. |  |
| serviceSpecific Units | Uint64 | OC | 0..1 | This field holds the amount of used service specific units. |  |
| eventTimeStamps | Array(DateTime) | OC | 0..N | This field holds the timestamps of the event reported in the Service Specific Units, if the reported units are event based |  |
| localSequenceNumber | integer | M | 1 | holds the Used Unit sequence number, i.e. the order when charging event occurs. Set to 1 at charging data request initial or event, and after that stepped with 1 for every new Used Unit generation. |  |

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| **First change** |

###### 6.1.6.2.2.14 Type MultipleQFIcontainer

Table 6.1.6.2.1.14-1: Definition of type MultipleQFIcontainer

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| Attribute name | Data type | P | Cardinality | Description | Applicability |
| triggers | array (Trigger) | Oc | 0..N | This field holds reason for closing the QFI unit container. |  |
| triggerTimestamp | DateTime | Oc | 0..1 | This field holds the UTC time indicating timestamp when the reporting trigger occur. |  |
| time | Uint32 | OC | 0..1 | This field holds the amount of time. |  |
| totalVolume | Uint64 | OC | 0..1 | This field holds the amount of volume in both uplink and downlink directions. |  |
| uplinkVolume | Uint64 | OC | 0..1 | This field holds the amount of volume in uplink direction. |  |
| downlinkVolume | Uint64 | OC | 0..1 | This field holds the amount of volume in downlink direction. |  |
| localSequenceNumber | integer | M | 1 | QFI data container sequence number. Set to 1 at charging data request initial and after that stepped with 1 for every new container generation |  |
| qFIContainerInformation | QFIContainerInformation | OC | 0..1 | This field holds the QFI data container information |  |

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| **End of changes** |