3GPP TSG SA WG5 Meeting 137-e TDoc S5-213344

electronic meeting, online, 10 - 19 May 2021

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0315** | **rev** | **-** | **Current version:** | **16.8.0** |  |
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| *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 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:*** | The applicability of the local sequence number, i.e. within what it should be stepped is undefined. |
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| ***Summary of change:*** | Adding a type so that it can be conveyed what it is counting. |
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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:*** | 6.2.1.4 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 32.290 CR 0163 TS 32.291 CR 0326  |
| ***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** |

#### 6.2.1.4 Definition of roaming QBC information

Roaming QBC specific charging information used for 5G data connectivity charging is provided within the Roaming QBC Information.

The detailed structure of the Roaming QBC Information can be found in table 6.2.1.4.1.

Table 6.2.1.4.1: Structure of Roaming QBC Information

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| --- | --- | --- |
| Information Element | Category | Description |
| Multiple QFI container | OC | This field holds a list of QFI containers. It may have multiple occurrences |
| Triggers | OC | This field holds the reason for closing the QFI unit container. |
| Trigger Timestamp | OC | This field holds the timestamp of the trigger. |
| Time | OC | This field holds the amount of used time. |
| Total Volume | OC | This field holds the amount of used volume in both uplink and downlink directions. |
| Uplink Volume | OC | This field holds the amount of used volume in uplink direction. |
| Downlink Volume | OC | This field holds the amount of used volume in downlink direction. |
| Local Sequence Number | M | This field holds a QFI data container sequence number |
| Local Sequence Number Type | OM | This field holds the applicability of local sequence number, i.e. what is local to. This can be the request or charging session |
| QFI Container information | OC | This field holds the QFI data container information defined in clause 6.2.1.5 |
| UPF ID | OC | This field holds the UPF identifier used to identify the UPF when reporting the usage for the UPF. |
| Roaming Charging Profile | OC | This field holds the Roaming Charging Profile associated to the PDU session for roaming QBC. |
| Trigger  | OC | This field holds the trigger applicable to QBC.This field has multiple occurrences |
| Trigger type | OC | This field holds the chargeable event defined in table 5.2.1.6.1. |
| Trigger category | OC | This field holds the trigger category (i.e. immediate or deferred reporting) |
| Time Limit | OC | This field holds the limit value in seconds when the trigger type is "Expiry of data time limit" |
| Volume Limit | OC | This field holds the limit value in octets when the trigger type is "Expiry of data volume limit" |
| Max Number of charging condition changes | OC | This field holds the limit value when the trigger type is "Expiry of limit of number of charging condition changes" |
| Partial record method | OC | This field holds the method uses by the CHF for partial record closure: default or Individual.  |

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| **End of changes** |