**3GPP TSG-SA5 Meeting #132e *S5-204213rev1***

**e-meeting 17th Aug-28th Aug 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.291** | **CR** | **0260** | **rev** | **1** | **Current version:** | **16.4.2** |  |
|  | | | | | | | | |
| *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:*** | Add the attributes for CHFQM | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | CHFQM | | | | |  | ***Date:*** | | | 2020-08-25 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | CHF can control to suspend or resume quota management via the charging data response or charging notify request. The corresponding indicators can instruct NF Consumers to suspend or resume quota management. | | | | | | | | |
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| ***Summary of change:*** | | Correct the format of Oc and Om. | | | | | | | | |
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| ***Consequences if not approved:*** | | Can not support the CHF controlled quota management. | | | | | | | | |
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| ***Clauses affected:*** | | 6.1.6.2.1.3,6.1.6.2.1.8,6.1.6.2.1.11 | | | | | | | | |
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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 change** |

###### 6.1.6.2.1.3 Type ChargingNotifyRequest

Table 6.1.6.2.1.3-1: Definition of type ChargingNotifyRequest

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| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| notificationType | NotificationType | M | 1 | Type of notification to indicate re-authorization or termination. |  |
| reauthorizationDetails | array(ReauthorizationDetails) | OC | 0..N | descriptors for re-authorization to determine which quota or usage reporting to be updated. |  |

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| **Next change** |

###### 6.1.6.2.1.8 Type MultipleUnitInformation

Table 6.1.6.2.1.8-1: Definition of type MultipleUnitInformation

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| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| resultCode | ResultCode | OC | 0..1 | This field contains the result of the Rating group quota allocation. |  |
| ratingGroup | RatingGroup | M | 1 | The identifier of a rating group. |  |
| grantedUnit | GrantedUnit | OC | 0..1 | This field holds the granted quota. |  |
| triggers | array(Trigger) | OC | 0..N | This field holds triggers for usage reporting associated to the rating group, which is supplied from the CHF.  The presence of the triggers attribute without any triggerType is used by CHF to disable all the triggers to the associated rating group. |  |
| validityTime | DurationSec | OC | 0..1 | This field defines the time in order to limit the validity of the granted quota for a given category instance. |  |
| quotaHoldingTime | DurationSec | OC | 0..1 | This field holds the quota holding time in seconds. It applies equally to the granted time quota and to the granted volume quota.  The NF Consumer shall deem a quota to have expired when no traffic associated with the quota is observed for the value indicated by this attribute. A quotaHoldingTime value of zero indicates that this mechanism shall not be used. If the quotaHoldingTime attribute is not present, then a locally configurable default value in the NF Consumer shall be used. |  |
| finalUnitIndication | FinalUnitIndication | OC | 0..1 | This field indicates the granted final units for the service. |  |
| timeQuotaThreshold | integer | OC | 0..1 | indicates the threshold in seconds for the granted time quota. |  |
| volumeQuotaThreshold | Uint64 | OC | 0..1 | indicates the threshold in octets when the granted quota is volume |  |
| unitQuotaThreshold | integer | OC | 0..1 | indicates the threshold in service specific units, that are defined in the service specific documents, when the granted quota is service specific |  |

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| **Next change** |

###### 6.1.6.2.1.11 Type GrantedUnit

Table 6.1.6.2.1.11-1: Definition of type GrantedUnit

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| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| tariffTimeChange | DateTime | OC | 0..1 | This field contains the switch time when the tariff will be changed. |  |
| time | Uint32 | OC | 0..1 | This field holds the amount of granted time. |  |
| totalVolume | Uint64 | OC | 0..1 | This field holds the amount of granted volume in both uplink and downlink directions. |  |
| uplinkVolume | Uint64 | OC | 0..1 | This field holds the amount of granted volume in uplink direction. |  |
| downlinkVolume | Uint64 | OC | 0..1 | This field holds the amount of granted volume in downlink direction. |  |
| serviceSpecificUnits | Uint64 | OC | 0..1 | This field holds the amount of granted requested service specific units. |  |

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| **End of change** |