**3GPP TSG- Meeting # *S5-201441****rev1 reveison of* ***S5-201411***

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| **CHANGE REQUEST** |
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|  |  | **CR** | **0204** | **rev** |  | **Current version:** |  |  |
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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:***  | Introduce CHF-Controlled Quota Management |
|  |  |
| ***Source to WG:*** | Amdocs |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | CHFCQM |  | ***Date:*** | 2020-02-14 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | R16 |
|  | *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-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:*** | Introducing the ability of CHF to suspend and resume quota management for a given rating group.  |
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| ***Summary of change:*** | Add section 5.2.1.X |
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| ***Consequences if not approved:*** | No CHF-controlled quota management capability |
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| ***Clauses affected:*** | 5.2.1 |
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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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| **1st change to TS 32.255** |

### 5.2.1 Basic principles

#### 5.2.1.X CHF-Controlled Quota Management

Quota management process is initiated by NF consumer, e.g. SMF, for service data flows handled with the online charging method for a given Rating Group. For the provision of the service to the end user, NF consumer requests quota from CHF via Charging Data Request messages [Initial / Update].  CHF-Controlled Quota Management in this context allows CHF to suspend/resume the quota management process for that Rating Group within a PDU session.

When an NF consumer issues a Charging Data Request [Initial / Update]  CHF may decide to authorize the service and suspend the quota management for that Rating Group. This means that: the service is authorized without granted units and that all quota management triggers for that Rating Group within a PDU session are ignored by the NF consumer.
Usage will continue to be reported via the remaining default active triggers. It is the sole responsibility of CHF to activate other applicable triggers if additional reporting is needed.

When an NF consumer issues a Charging Data Request [Update] in which a given Rating Group has quota management previously suspended, CHF may decide to resume quota management for that Rating Group. This means that all previously set quota management triggers for that Rating Group are considered by the NF consumer and granted units are reconfigured by the CHF.

CHF may want to resume quota management at any time, for this Re-authorization mechanisms can be used to trigger NF consumer to subsequently issue a Charging Data Request [Update].Procedures enabling CHF-Controlled Quota Management to suspend/resume the quota management are described in TS 32.290 [57].

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| **End of change** |