**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | **1** | **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:***  |  |
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| ***Source to WG:*** | , Huawei |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***Release:*** |  |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | Its described in TS32.290 (clause 5.3.2.3), that is necessary to not allow to send a new quota request before receiving the previous response for the same rating group, and that in the case the scenario occurs a failure handling scenario shall be followed, which currently is not available.  |
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| ***Summary of change:*** | Add the clause describing that the request shall be requested when is out of sequence, and provide failure handling scenario |
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| ***Consequences if not approved:*** | Units can be granted to the same session without available quota |
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| ***Clauses affected:*** | 5.4.8.1, 5.5.3 |
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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 32.291 CR 0593 |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **First change** |

### 5.5.3 Response code handling

The Charging Data Response includes a response code (i.e. Invocation Result Code in Invocation Result) which may indicate an error. The response codes supported by Nchf\_ConvergedCharging service operations are specified 3GPP TS 32.291 [58].

A NF Consumer (CTF) receiving a Charging Data Response [Initial] with a response code indicating the Charging Data Request [Initial] was unsuccessfully processed, shall perform the error handling applicable to the response code and may send a Charging Data Request [Termination] to the CHF.

A NF Consumer (CTF) receiving a Charging Data Response [Termination] with a response code indicating the Charging Data Request [Termination] was unsuccessfully processed, shall perform the error handling applicable to the response code.

A NF Consumer (CTF) receiving a Charging Data Response [Update] with a response code indicating the Charging Data Request [Update] was unsuccessfully processed, shall perform the error handling applicable to the response code and may send a Charging Data Request [Termination] to the CHF.

The Charging Data Response may also include multiple "Multiple Unit Information" Information Elements, each one indicated with a Result code (i.e. applicable at Rating group level). The Result code values supported by Nchf\_ConvergedCharging service operations are specified 3GPP TS 32.291 [58]. Any Invocation Result Code value different than success takes precedence over the set of "Multiple Unit Information" Result Codes.

In case a NF consumer (CTF) requires new units to be granted for the same rating group in SCUR charging scenario, the next request for quota should only be send after receiving the response for the previous request. Othewise, in case CHF received another charging data request for the same RG, before CHF has provided response to the first charging data request, the CHF should return an error code (i.e. CHARGING\_FAILED) to NF consumer (CTF).

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| **End of Changes** |