**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  |
| *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:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***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. On this case an error should be returned to the NF Consumer |
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| ***Summary of change:*** | Extend the description of CHARGING\_FAILED Application Error so this failure handling scenario is supported  |
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| ***Consequences if not approved:*** | Units can be granted to the same session without available quota |
|  |  |
| ***Clauses affected:*** | 6.1.7.3 |
|  |  |
|  | **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 32.290 CR 0243 |
|  |  |  |  |  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **First change** |

#### 6.1.7.3 Application errors

The application errors defined for the Nchf\_ConvergedCharging API are listed in table 6.1.7.3-1. The CHF shall include in the HTTP status code a "ProblemDetails" data structure with the "cause" attribute indicating the application error as listed in table 6.1.7.3-1. The common application errors defined in the table 5.2.7.2-1 in 3GPP TS 29.500 [7] may also be used for the Nchf\_ConvergedCharging service.

Table 6.1.7.3-1: Application errors

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| --- | --- | --- |
| Application Error | HTTP status code | Description |
| CHARGING\_FAILED | 400 Bad Request | The HTTP request is rejected because the set of session or subscriber information needed by the CHF for charging or CDR creation is incomplete or erroneous or not available e.g., rating group, subscriber information, message sequence for quota management. |
| RE\_AUTHORIZATION\_FAILED | 400 Bad Request | The HTTP request is rejected because the set of information needed by the CTF to report the usage is incomplete or erroneous or not available.  |
| CHARGING\_NOT\_APPLICABLE | 403 Forbidden | The HTTP request is rejected by the CHF since it has been determined that the service can be allowed to the end user without any charging or CDR creation. |
| USER\_UNKNOWN | 404 Not Found | The HTTP request is rejected because the end user specified in the request cannot be served by the CHF. |
| END\_USER REQUEST\_DENIED | 403 Forbidden | The HTTP request denied by the CHF due to restrictions or limitations related to the end-user. |
| QUOTA\_LIMIT\_REACHED | 403 Forbidden | The HTTP request denied by the CHF because the end user's account could not cover the requested service. If the request contained used units they are deducted, if applicable. |
| END\_USER\_REQUEST\_REJECTED | 403 Forbidden | The HTTP request rejected by the CHF due to end-user restrictions or limitations.  |

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| **End of Changes** |