**3GPP TSG-SA5 Meeting #143-e *S5-223097***

e-meeting, 9 - 17 May 2022

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.290** | **CR** | **0182** | **rev** | **-** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Correcting CHF detected failure handling | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-04-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | How the CHF shall handle an error detected is unclear e.g., is it account, rating, reservation, or CDR handling that is to be considered. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Making the handling optional for the CHF and clarifying what CDRs may be created. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The CHF error handling is unclear and may lead to interoperability issues. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.5.1.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

|  |
| --- |
| **First change** |

#### 5.5.1.2 CHF detected failure

The CHF closes a CDR and all the reserved resources are freed for the charging session when it detects that expected charging data request for a particular session have not been received for a period of time. The charging session may be kept or released based on local configuration.

A Charging Data Request [Initial] received by a CHF, which can be associated to an existing charging session (i.e., resource in CHF), may be handled as a valid request, with and Charging Data Response including the charging session id (i.e. resource id). If there are errors during the handling, corresponding error code is returned.

A Charging Data Request [Update] received by a CHF, which cannot be associated to any existing charging session (i.e., resource in CHF), may be handled as a valid request with the associated resource creation, quota usage handling and optional CDR creation. If there are errors during the handling, corresponding error code is returned.

A Charging Data Request [Termination] received by a CHF, which cannot be associated to any existing charging session (i.e., resource in CHF), may be handled as a valid request with associated new resource creation and release, and optional corresponding CDR creation and closure. If there are errors during the handling, corresponding error code is returned.

The Invocation Sequence Number in Charging Data Request [Initial] with value different from 0 or 1 is faulty and shall be rejected by CHF.

|  |
| --- |
| **End of changes** |