**3GPP TSG-SA5 Meeting #142-e *S5-222775d2***

**e-meeting, 4 - 12 April 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **32.290** | **CR** | **-** | **rev** | **1** | **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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  | CHF Set Concept & Retry Handling |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shangai Bell |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2022-04-06 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Its not clear that an alternative CHF is used in a retry handling operation |
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| ***Summary of change:*** | Additional reference on the alternative CHF. |
|  |  |
| ***Consequences if not approved:*** | Unclear on how the retry towards CHF is handled |
|  |  |
| ***Clauses affected:*** | 5.5.2 |
|  |  |
|  | **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

### 5.5.2 Retry handling

In case a NF consumer (CTF) does not receive a Charging Data Response, it may retransmit the Charging Data Request message. The number of retries and delay between retries shall be locally configured in the NF consumer (CTF).

If the retried charging data request [Initial] is received by the same CHF, the uniqueness checking may be based on the Charging Identifier included in the charging data request. CHF shall respond to the retried charging data request [Initial] with the original charging session identifier.

If the retried request is charging data request [Update] or charging data request [Termination], the uniqueness checking may based on the inspection of the Charging Session Identifier and Invocation Sequence Number pair.

If retried message shall have the same Invocation Sequence Number as the original of the retried message i.e. the Invocation Sequence Number shall not be incremented when the message is retried. The NF consumer (CTF) may send the retried message to an alternative CHF if the Session Failover indication is received from the CHF. The alternative CHF can be built as defined in clause 5.23.1 of 3GPP TS 23.501 [201].

In the case of a notification request time out the CHF may retry the message. The number of retries and delay between retries shall be locally configured in the CHF.

End of changes