3GPP TSG SA WG5 Meeting 137-e TDoc S5-213281

electronic meeting, online, 10 - 19 May 2021

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | **-** | **Current version:** | **16.7.0** |  |
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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:***  | Correction on support of CHF set and CHF service set  |
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| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Matrixx |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TEI16  |  | ***Date:*** | 2021-04-30 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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:*** | In Rel-16 the concept of "NF Set" and "NF Service Set" has been specified in TS 23.501 clause 5.21.3 and it is not clear whether it is applicable for the CHF when using the NRF framework.  The relationship between CHF instance and primary/secondary CHF instances pair(s) in not described |
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| ***Summary of change:*** | Add CHF set and CHF service set is supported Add CHF instance and CHF service instance in the description with NRF framework.Clarify how CHF instances also cover primary/secondary CHF instances |
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| ***Consequences if not approved:*** | Network reliability cannot fully be supported by the CHF and CHF service(s)  |
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| ***Clauses affected:*** |  6.1 |
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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 ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** |  |

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| **First change** |

## 6.1 NF service framework

5G Charging Function supports to interact with NRF, as specified in clause 7.1 of TS 23.501 [201] and clauses 4.17 and 5.2.7 of TS 23.502 [202] to enable following functionalities:

- CHF instance(s) registration, CHF service(s) instance(s) registration in a CHF instance.

- CHF instance(s) update, CHF service(s) instance(s) update in a CHF instance.

- CHF instance(s) deregistration.

- CHF instance(s) and CHF service(s) instance(s) discovery by CHF service consumer.

The services specified in clause 7.2.6 TS 23.501 [201] may be used and the interaction is described in TS 29.510 [300]:

- Nnrf\_NFManagement.

- Nnrf\_NFDiscovery.

- Nnrf\_AccessToken.

The Nnrf\_NFManagement\_NFRegister service invoked by CHF for CHF instance(s) and CHF service(s) instance(s) registration described in the TS 29.510 [300] may include in particular:

- Range(s) of SUPIs.

- Range(s) of GPSIs.

- Range(s) of PLMNs.

- CHF Group ID.

- CHF set ID.

- CHF service set ID.

These parameters may also be used by CHF service consumer(s) invoking the Nnrf\_NFDiscovery service for the CHF instance(s) and CHF service(s) instance(s) discovery.

The CHF instance(s) include:

- the primary CHF instance and secondary CHF instance pair(s), or- CHF instance(s) within a CHF set.

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| **End of changes** |