**3GPP TSG-SA2 Meeting #143e *<TDoc#>***

**, - 2021‑03‑09**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **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)*.* |
|  |

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

|  |
| --- |
|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | DCCF and Messaging Framework are defined in TR 23.700-91 in the context of eNA. These two new network functions are supposed to be used for data collection. Consumers of these network functions include NWDAF. DCCF will also need to interact with existing producers of event exposure (e.g., AMF, SMF, UDM, etc.). Additionally any consumer of Event Exposure can benefit from the DCCF and the Messaging Framework, including NEF, NEF, OAM. This CR proposes that both DCCF and Messaging Framework are specified as generic network functions in 23.501 and 23.502.  |
|  |  |
| ***Summary of change:*** | New text or clauses added for DCCF, MAF, and ADRF. |
|  |  |
| ***Consequences if not approved:*** | DCCF and Messaging Frameowrk not specified as generic NFs. |
|  |  |
| ***Clauses affected:*** | 4.2.2, 6.2.X, 6.2.Y, 6.2.Z, 6.3.X, 6.3.Y, 6.3.Z, 7.2.X, 7.2.Y, 7.2.Z |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | 23.502 CR ...  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\*\* First Change \*\*\*\*

### 4.2.2 Network Functions and entities

The 5G System architecture consists of the following network functions (NF).

- Authentication Server Function (AUSF).

- Access and Mobility Management Function (AMF).

- Data Network (DN), e.g. operator services, Internet access or 3rd party services.

- Unstructured Data Storage Function (UDSF).

- Network Exposure Function (NEF).

- Network Repository Function (NRF).

- Network Slice Specific Authentication and Authorization Function (NSSAAF).

- Network Slice Selection Function (NSSF).

- Policy Control Function (PCF).

- Session Management Function (SMF).

- Unified Data Management (UDM).

- Unified Data Repository (UDR).

- User Plane Function (UPF).

- UE radio Capability Management Function (UCMF).

- Application Function (AF).

- User Equipment (UE).

- (Radio) Access Network ((R)AN).

- 5G-Equipment Identity Register (5G-EIR).

- Network Data Analytics Function (NWDAF).

- CHarging Function (CHF).

NOTE x: The functional description on architecture and principles of the CHF is specified in TS 32.240 [41].

The 5G System architecture also comprises the following network entities:

- Service Communication Proxy (SCP).

- Security Edge Protection Proxy (SEPP).

The functional descriptions of these Network Functions and entities are specified in clause 6.

- Non-3GPP InterWorking Function (N3IWF).

- Trusted Non-3GPP Gateway Function (TNGF).

- Wireline Access Gateway Function (W-AGF).

- Trusted WLAN Interworking Function (TWIF).

- Data Collection Coordination Function (DCCF).

- Messaging Framework and Messaging Adaptor Function (MAF).

NOTE y: The Messaging Framework is not standardized by 3GPP.

- Analytics Data Repository Function (ADRF).

NOTE z: The functional description on architecture and principles of the ADRF is specified in TS 23.288 [86].

\*\*\*\* Next Change \*\*\*\*

### 6.2.X Data Collection Coordination Function (DCCF)

Editor’s Note: This clause should provide an overall description of the DCCF.

### 6.2.Y Messaging Framework and Messaging Adaptor Function (MAF)

Editor’s Note: This clause should provide an overall description of the the Messaging Framework, indicating that such framework is not specified by 3GPP. However, a Messaging Adaptor Function adapts the Messaging Framework to SBA interfaces.

### 6.2.Z Analytics Data Repository Function (ADRF)

Editor’s Note: This clause should provide an overall description of the ADRF.

NOTE: The details of the NWDAF functionality are defined in TS 23.288 [86].

\*\*\*\* Next Change \*\*\*\*

### 6.3.X DCCF discovery and selection

Editor’s Note: This clause should discuss the discovery and selection procedures of the DCCF.

### 6.3.Y MAF discovery and selection

Editor’s Note: This clause should discuss the discovery and selection procedures of the MAF.

### 6.3.Z ADRF discovery and selection

Editor’s Note: This clause should discuss the discovery and selection procedures of the ADRF.

\*\*\*\* Next Change \*\*\*\*

### 7.2.X DCCF services

Editor’s Note: This clause should contain a table listing the services provided by the DCCF.

### 7.2.Y MAF services

Editor’s Note: This clause should contain a table listing the services provided by the MAF.

### 7.2.Z ADRF services

Editor’s Note: This clause should contain a table listing the services provided by the ADRF.