**3GPP TSG-SA WG6 Meeting #52-bis-e S6-23eeee**

**e-meeting, 11th – 20th January 2023 (revision of S6-23xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **-** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HELP***](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 | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Additions to functional entities on support for DAA deployments | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Additions to functional entities due to support for DAA deployments are missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The additions to functional entities due to support for DAA deployments are added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The additions to functional entities due to support for DAA deployments would be missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.3.4, 5.3.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \*

### 5.3.4 UAE client

The UAE client supports interactions with the UAS application specific client(s).

The UAE client provides the client side UAS application layer support functions as below:

- receiving and storing C2 operation mode configurations;

- selecting primary and secondary C2 communication modes based on the configurations;

- switching of C2 communication in emergency scenarios;

- supporting UAV application message communication handling;

- providing the UAE server with the Multi-USS and DAA capabilities;

- receiving and storing Multi-USS and DAA policies;- based on Multi-USS policies, switching of UAS application specific server in emergency scenarios; and

- based on DAA-policies, assist the UAS application with DAA in emergency scenarios.

### 5.3.5 UAE server

If CAPIF is supported, the UAE server acts as CAPIF's API exposing function to provide service APIs to the UAS application specific server (e.g. USS/UTM) or another UAE server as specified in 3GPP TS 23.222 [3], or acts as CAPIF's API invoker to consume the service APIs provided by another UAE server.

The UAE server provides the server side UAS application layer support functions as below:

- performing group based QoS management for the UAS (i.e. pair of UAV and UAV-C) by using SEAL APIs.

- receiving C2 operation mode configuration from UAS application specific servers (e.g. USS/UTM) and further configuring the UAS UEs (i.e. UAV, UAV-C);

- triggering C2 communication mode switching with the UAS UEs;

- receiving and storing the selected C2 communication modes from the UAS UEs;

- monitoring the real-time status of UAS UEs by using SEAL APIs;

- supporting UAV application message communications between UAVs;

- receiving Multi-USS and DAA policies from UAS application specific servers and further configuring the UAS UEs (i.e. UAV); and

- handling and coordination by the UAE layer of DAA related notifications and requests.

\* \* \* End of change \* \* \*