**3GPP TSG-CT WG1 Meeting #141eC1-232260**

**Online 17– 21 April 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | DAA support configuration procedures | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | InterDigital Inc. | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | UASAPP\_Ph2 | | | | |  | ***Date:*** | | | 2023-04-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | Procedures for DAA support configuration is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Procedures for DAA support configuration the UAS application specific server, the UAE server and the UAE client are added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Procedures for DAA support configuration will remain missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.2, 6.8 (new), 6.8.1 (new), 6.8.1.1 (new), 6.8.2 (new), 6.8.2.1 (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*\*

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

C2 Command and Control

DAA Detect And Avoid

GPSI Generic Public Subscription Identifier

SCM-S SEAL Configuration Management Server

SEAL Service Enabler Architecture Layer for Verticals

SLM-S SEAL Location Management Server

UAE UAS Application Enabler

UAS Uncrewed Arial System

UAV Uncrewed Aerial Vehicle

UAV-C Unmanned Aerial Vehicle-Controller

USS UAS Service Supplier

UTM UAS Traffic Management

\*\*\*\*\*Next change \*\*\*\*\*

## 6.8 DAA support

### 6.8.1 Client procedure

#### 6.8.1.1 DAA support configuration procedure

Upon receiving an HTTP POST request containing:

a) a Content-Type header field set to "application/vnd.3gpp.uae-info+xml"; and

b) an application/vnd.3gpp.uae-info+xml MIME body with a <DAA-support-configuration-info> element,

the UAE-C:

a) shall store the received configuration information;

b) shall generate an HTTP 200 (OK) response according to IETF RFC 7231 [5]. In the HTTP 200 (OK) response message, the UAE-C:

1) shall include a Content-Type header field set to "application/vnd.3gpp.uae-info+xml"; and

2) shall include an application/vnd.3gpp.uae-info+xml MIME body and in the <UAE-info> root element:

i) shall include a <DAA-support-configuration-info> element with a <result> child element set to the value "success" or "failure" indicating positive or negative result of reception and storing of the DAA support configuration parameters; and

c) shall send the HTTP 200 (OK) response towards the UAE-S.

### 6.8.2 Server procedure

#### 6.8.2.1 DAA support configuration procedure

Upon receiving an application request from UAS application specific server (which can be the USS/UTM) to manage the DAA support configuration for a UAS, the UAE-S shall generate an HTTP POST request message according to IETF RFC 7231 [5]. In the HTTP POST request message, the UAE-S:

a) shall include a Request-URI set to the URI corresponding to the identity of the UAE-C;

b) shall include a Content-Type header field set to "application/vnd.3gpp.uae-info+xml";

c) shall include an application/vnd.3gpp.uae-info+xml MIME body with a <DAA-support-configuration-info> element in the <UAE-info> root element which:

1) shall include a <UAS-id> element set to the identification of the UAS for which the multi-USS configuration request applies; and

2) may include a < DAA-application-policy> element that consists of the DAA application policy to be configured at the UAS; and

d) shall send the HTTP POST request message towards the UAE-C.

\*\*\*\*\* End of changes \*\*\*\*\*