**3GPP TSG-CT WG1 Meeting #146C1-240abc**

**Online, 22– 26 January 2024**

**Source: Huawei, HiSilicon**

**Title: Pseudo-CR on CoAP procedure for the** **SEALDD enabled E2E redundant transmission path connection update procedure**

**Spec: 3GPP TS 24.543 v1.0.0**

**Agenda item: 18.2.16**

**Document for: Agreement**

**1. Reason for Change**

The current version of the specifications contains editor’s notes about the specification of the CoAP client and server procedures for the SEALDD enabled E2E redundant transmission path connection update procedure. Those editor’s notes need to be resolved.

**2. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.543 v1.0.0.

**3. Revision history**

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

#### 7.2.5.3 SDDM client CoAP procedure

In order to request an SDDM URLLC transmission connection update to the SDDM-S, the SDDM-C shall send a CoAP PUT request message to the SDDM-S according to procedures specified in IETF RFC 7252 [13]. In the CoAP PUT request, the SDDM-C:

a) shall include a CoAP URI set to the URI corresponding to the identity of the SDDM-S as specified in clause A.3.2.1 with;

1) the "apiRoot" set to the SDDM-S URI; and

b) shall include Content-Format option set to "application/vnd.3gpp.seal-data-delivery-info+cbor";

c) shall include a "URLLCUpdateRequest" object:

1) shall include a "sealClientId" attribute set of the identity of the SDDM-C;

2) shall include a "sealddFlowId" attribute set to the identity of the SDDM flow used by the SDDM-C and SDDM-S to identify the application traffic;

3) may include a "serverId" attribute set to the information of the VAL server;

4) may include a "valServiceId" attribute set to the identity of the VAL service of the vertical application;

5) may include a "userPlaneAddress" attribute specifying the identity of the IP address of the traffic;

6) may include a"portNumber" attribute specifying the identity of the port number of the traffic;

7) may include a "url" attribute specifying the address of a given unique resource on the Web for the traffic;

8) may include a "transportLayerProtocol" attribute specifying the transport layer protocol for the traffic; and

c) shall send the request protected with the relevant ACE profile (OSCORE profile or DTLS profile) as described in 3GPP TS 24.547 [7].

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

#### 7.2.5.4 SDDM server CoAP procedure

Upon receiving a CoAP PUT request where the CoAP URI of the CoAP PUT request identifies the resource to be updated as specified in Annex A.4.2.1, and containing:

a) a Content-Format option set to "application/vnd.3gpp.seal-data-delivery-info+cbor", and

b) a "URLCCUpdateRequest" object;

the SDDM-S shall generate a CoAP PUT response according to IETF RFC 7252 [13]. In the CoAP PUT response message, the SDDM-S:

a) shall include a Content-Format option set to "application/vnd.3gpp.seal-data-delivery-info+cbor";

b) shall attempt to update the SDDM connection resource pointed at by the CoAP URI with the content of "EstablishmentRequest" object received in the request and:

1) if successfully updated, shall include an "URLCCUpdateResponse" object in the CoAP PUT 2.04 (Changed) response message;

i) shall include a "result" attribute set to "success"; or

2) otherwise, shall include an "URLCCUpdateResponse" object with a "result" attribute set to "failure" and a "cause" attribute specifying the cause of the failure of the operation, e.g. VAL client error in the CoAP PUT response; and

c) shall send the CoAP PUT response towards the SDDM-C.

\* \* \* End of Changes \* \* \* \*