**3GPP TSG-CT WG1 Meeting #133-eC1-216973**

**E-meeting, 11-19 November 2021**

**Source: ZTE**

**Title: pCR on MSGin5G deregistration procedure**

**Spec: 3GPP TS 24.538**

**Agenda item: 17.2.30**

**Document for: Agreement**

**1. Introduction**

Based on the analysis of DP C1-216697, CoAP protocol is preferred for MSGin5G-1 interface. Thus it is proposed to describe de-registration procedure based on the stage2 requirements.

**2. Reason for Change**

Complete the implementation in stage3 for de-registration procedure.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.538.

\*\*\*\*\* First change \*\*\*\*\*

6.3.1.1.2 MSGin5G UE de-registration

The MSGin5G Client initiates an CoAP POST request message to de-register from the MSGin5G Server. In the CoAP POST request message, the MSGin5G Client:

a) shall set the “T” field in the CoAP header to 0 to indicate acknowledge message required;

b) shall include the MSGin5G Server address in the Option header of the CoAP message and set the Option header to a corresponding value, e.g. if the MSGin5G Server address is a URI, the Uri-Path Option is set to the value of such URI;

c) shall set the"Content Format" element to "50" to indicate the format of the CoAP payload is "application/json"; andd) includes the following information elements in the CoAP payload in the MSGin5G de-registration request:

1) the "Message Type" element to indicate a de-registration message;

2) the "UE Service ID" element to indicate the MSGin5G UE initiating de-registration procedure; and

3) the "UE Credential Information" element to indicate the authentication type and related information.

Editor's note: The details of authentication type and related information is FFS.

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

6.3.1.2.2 MSGin5G UE de-registration

Upon reception of deregistration message carried by the CoAP POST request message from a MSGin5G UE, the MSGin5G Server shall verifies the security credentials according to "UE Credential Information" element. After a successful verification, the MSGin5G Server:

a) shall delete the registration information of the MSGin5G UE and any applicable MSGin5G Client Profile information that it has stored;

b) shall generate a CoAP 2.04 (Change) response including the following parameters:

1) the CoAP "Message ID" element and the "Token" element with the same values with those in the CoAP POST request message for deregistration;

2) optionally, the MSGin5G Client address in the Option header of the CoAP response message and set the Option header to a corresponding value, if it is provided in the payload of CoAP POST request message; and

3) the "Content-Format" element with "50" to indicate the format of the CoAP payload is "application/json" and the CoAP payload including:

i) the "UE Service ID" element to indicate the MSGin5G UE initiating registration procedure; and

ii) the "De-registration result" element to indicate whether the registration is success or failure.

Editor's note: How to verify the security credentials is FFS.\*\*\*\*\* End of change \*\*\*\*\*