**3GPP TSG-CT WG1 Meeting #136-eC1-223851**

**E-Meeting, 12th – 20th May 2022**

**Source: ZTE**

**Title: Security aspects for MSGin5G-1 interface**

**Spec: 3GPP TS 24.538 v1.1.0**

**Agenda item: 17.2.30**

**Document for: Agreement**

**1. Introduction**

Security aspects of the MSGin5G service has been defined in Annex Y of TS 33.501. Thus it is proposed to add description and reference in CT1 specification.

**2. Reason for Change**

SA3 has defined the authentication and authorization for MSGin5G Client and MSGin5G Server.

The authorization of MSGin5G UE by the MSGin5G server is performed by validating the association between the UE service ID and UE ID (SUPI/GPSI). During the registration procedure, the MSGin5G server verifies the UE service ID based on the association information retrieved Configuration Management server or MSGin5G Configuration Function using the UE ID received from the AAnF.

Thus it is proposed to add description and reference of authorization for MSGin5G-1 interface specified in CT1.

**3. Conclusions**

Add description and reference of authentication and authorization in general clause.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.538 v1.1.0.

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

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.554: "Application architecture for MSGin5G Service; Stage 2;".

[3] 3GPP TS 23.434: "Service Enabler Architecture Layer for Verticals".

[4] IETF RFC 7641: "Observing Resources in the Constrained Application Protocol (CoAP)".

[5] IETF RFC 7252: "The Constrained Application Protocol (CoAP)".

[6] 3GPP TS 24.546: "Configuration management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification".

[7] 3GPP TS 29.538: "Enabling MSGin5G Service; Application Programming Interfaces (API) specification; Stage 3".

[8] JSON Schema: " JSON Schema Draft-07", <http://json-schema.org/specification.html>

[9] 3GPP TS 23.304: "Proximity based Services (ProSe) in the 5G System (5GS)".

[10] 3GPP TS 24.544: "Group Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification".

[11] 3GPP TS 24.545: "Location Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification".

[12] 3GPP TS 24.546: "Configuration Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification".

[13] 3GPP TS 24.547: "Identity Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification".

[14] 3GPP TS 24.548: "Network Resource Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification".

[xx] 3GPP TS 33.501: "Security architecture and procedures for 5G system".

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[x] <doctype> <#>[ ([up to and including]{yyyy[-mm]|V<a[.b[.c]]>}[onwards])]: "<Title>".

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

## 6.1 General

In clause 6, the detailed behaviors of the MSGin5G UE, the MSGin5G Server and Constrained device with/without MSGin5G Client during the MSGin5G procedures are described.

Depending on communication over different MSGin5G interfaces, different MSGin5G procedures are supported as:

a) For the communication between the MSGin5G Client of MSGin5G UE and the MSGin5G Server over the MSGin5G-1 interface, the following procedures are involved:

1) Configuration procedure;

2) Registration and de-registration procedure;

3) MSGin5G message delivery procedure including sending and receiving MSGin5G message, aggregated MSGin5G message, MSGin5G message delivery status report and aggregated MSGin5G message delivery status report at MSGin5G Client.

4) Regment and reassemble procedures; and

5) Messaging topic subscription procedure.

b) For the communication between the constrained device (without MSGin5G Client) and MSGin5G Gateway UE which is an unconstrained device over the MSGin5G-5 interfaces, the following procedures are involved:

1) Registration and de-registration procedure;

2) MSGin5G message delivery procedure including sending and receiving MSGin5G message and MSGin5G message delivery status report.

c) For the communication between the constrained device (with MSGin5G Client) and the MSGin5G Relay UE which is an unconstrained device over the MSGin5G-6 interfaces, all the procedures listed in bullet a) are supported. The communication between MSGin5G Client of the constrained device the MSGin5G Server re-uses the procedures listed in bullet a). The MSGin5G Relay UE relays the requests and responses as traffic between the MSGin5G Client of the constrained device the MSGin5G Server.

For procedures used for bullet a) and bullet c), CoAP specified in IETF RFC 7252 [5] is used as the basic transport protocol. For procedures used for bullet b), guidance on definitions of the message format and information elements are described in Annex A.

The authorization of MSGin5G Client by the MSGin5G Server is performed by verifying the UE service ID as specified in Annex Y of TS 33.501 [xx].

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