**3GPP TSG-SA WG6 Meeting #44 S6-211580\_rev1**

**e-meeting, 12th – 20th July 2021 (revision of S6-21xxxx)**

**Source: one2many**

**Title: Pseudo-CR on Modifications to clause 7.2**

**Spec: 3GPP TS 23.554 v1.0.0**

**Agenda item: 8.2**

**Document for: Approval**

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**1. Introduction**

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it could be assumed that clauses 8.7.1.4 and 8.7.1.5 specify the procedure for a non-MSGin5G UE to send a message to a MSGin5G UE. However, the text does not specify initiating sending a message (which cannot be supported) but how a non-MSGin5G UE can send a reply message to an earlier receiver message. Text describing that is added to the end of clause 7.

**2. Reason for Change**

Alignment with the rest of the specification

**3. Conclusions**

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**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 23.554 v1.0.0.

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

## 7.2 Service flow

Before a UE or an Application Server can use the MSGin5G Service it needs to register with the MSGin5G Server.

A UE registers with its identity, its security credentials, the capabilities that it supports, and its availability. The MSGin5G Server will use the availability registration and de-registration to determine if the UE is available for message delivery. If a UE is unavailable for message delivery, the MSGin5G Server will store the message and deliver it once the UE becomes available again.

When a UE or an Application Server sends a MSGin5G message to a recipient UE then such message will be sent to the MSGin5G Server and this server will deliver the message to the UE based on the capabilities of the recipient UE (MSGin5G UE, Legacy 3GPP UE or Non-3GPP UE). If the recipient UE is a Legacy 3GPP UE then the MSGin5G Server will forward the message to the Legacy 3GPP Message Gateway and this gateway will convert the message to a message that is supported by the recipient UE (e.g. SMS, NIDD or CB). If the recipient UE is a Non-3GPP UE then the MSGin5G Server will forward the message to the Non-3GPP Message Gateway and this gateway will convert the message to a message that is supported by the recipient UE.

A Legacy 3GPP UE sends the application payload to the Legacy 3GPP Message Gateway and this gateway will forward the application payload in a MSGin5G message to the MSGin5G Server, which will deliver the message to the recipient UE(s). A Non-3GPP UE sends the application payload to the Non-3GPP Message Gateway and this gateway will forward the application payload in a MSGin5G message to the MSGin5G Server, which will deliver the message to the recipient UE(s).

NOTE: Conversion by a Message Gateway is out of scope of the present specification.

If a UE or an Application Server sends a MSGin5G message to a group of UEs, the MSGin5G Server will deliver the message to all group members taking into account if such a UE is a MSGin5G UE, a Legacy-3GPP UE or a non-3GPP UE and if such UE is available for delivery.

If a UE or an Application Server sends a MSGin5G message containing a Messaging Topic to the MSGin5G Server, the MSGin5G Server will distribute the message to all UEs and Application Servers that have subscribed to that topic.

If a UE or an Application Server sends a broadcast message to a Broadcast Area, the MSGin5G Server forwards the message to the Legacy-3GPP Message Gateway and this gateway will forward the message to the broadcast function.

An originating UE or Application Server may request the recipient UE(s) to acknowledge reception of the message. If such a request is made, a delivery report shall be sent by the recipient MSGin5G UE or the Message Gateway (on behalf of the non-MSGin5G UE) as a point-to-point message back to the originating UE or Application Server. The acknolwedgement information is included in the payload and the format of this information is out of scope of the present specification.

The non-MSGin5G UE may respond to an incoming MSGin5G message; it is subject to the Message Gateway implementation to maintain the transaction of the incoming MSGin5G message and reply to it to the sender, with the response it receives from the non-MSGin5G UE.

\* \* \* End of Change \* \* \* \*