**3GPP TSG-CT3 Meeting #119bis-e C3-220236**

**E-Meeting, 17th – 21st January 2022**

**Source: Huawei, HiSilicon**

**Title: MSGG\_L3GDelivery Service Operation**

**Spec: 3GPP TS 29.538 v0.2.0**

**Agenda item: 17.34**

**Document for: Approval**

**1. Introduction**

This pCR is to propose the Legacy 3GPP Message Gateway Terminating Message and Delivery status report part of TS 29.538.

**2. Reason for Change**

As specified in TS 23 554, Legacy 3GPP Message Gateway Terminating Message and Delivery status report part is needed.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.538 v0.2.0.

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

6.2.2.4.1 General

This service operation corresponds to clause 9.2.1.1.2 as defined in 3GPP TS 23.554 [2], is used by MSGin5G Server to deliver MSGin5G message to the Legacy 3GPP Message Gateway.

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

6.2.2.4.2 Legacy 3GPP Message Gateway Terminating Message Delivery

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**Figure 6.2.2.4.2-1: Legacy 3GPP Message Gateway Terminating Message Delivery**

When the MSGin5G Server needs to send the message to the Legacy 3GPP Message Gateway, the MSGin5G Server shall send the HTTP POST request towards the "deliver-message" resource as shown in Figure 6.2.2.4.2-1.

The MSGin5G Server shall send a POST request to the resource with an L3gMessageDelivery object in the request body.

The L3gMessageDelivery data type shall include:

- the Originating UE Service ID/AS Service ID within the "oriAddr" attribute;

- the Recipient UE Service ID/AS Service ID within the "destAddr" attribute;

- the Message ID within the "msgId" attribute; and

may include:

- the Application ID within the "appId" attribute;

- the indication whether the message delivery status report is required within the "isDelivStatReq" attribute;

- the Payload within the "payload" attribute;

- the Message is segmented within the "isSegmented" attribute; and

- the message segment parameters within the "segParams" attribute, this attribute may include:

- the segmentation set identifier within the "segId" attribute;

- the total number of message segments within the "totalSegCount" attribute;

- the message segment number within the "segNumb" attribute; and

- the last segment flag within the "lastSegFlag" attribute.

Editor's Note: whether the above attributes are the final version is FFS.

When the Legacy 3GPP Message Gateway receives the HTTP POST request from the MSGin5G Server, the Legacy 3GPP Message Gateway shall respond to the MSGin5G Server with a 204 No Content message.

If errors occur when processing the HTTP POST request, the Legacy 3GPP Message Gateway shall apply error handling procedures as specified in subclause 9.1.6.

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

6.2.2.5.1 General

This service operation corresponds to clause 9.2.1.3.2 as defined in 3GPP TS 23.554 [2], is used by MSGin5G Server to deliver the delivery status report to the Legacy 3GPP Message Gateway.

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

6.2.2.5.2 Legacy 3GPP Message Gateway Terminating Message Delivery Status Report

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**Figure 6.2.2.5.2-1: Legacy 3GPP Message Gateway Terminating Delivery Status Report**

When the MSGin5G Server needs to send the delivery status report to the Legacy 3GPP Message Gateway, the MSGin5G Server shall send the HTTP POST request towards the "deliver-report" resource as shown in Figure 6.2.2.5.2-1.

The MSGin5G Server shall send a POST request to the resource with a DeliveryStatusReport object in the request body.

The DeliveryStatusReport data type shall include:

- the Originating UE Service ID/AS Service ID within the "oriAddr" attribute;

- the Recipient UE Service ID/AS Service ID within the "destAddr" attribute;

- the Message ID within the "msgId" attribute;

- the delivery status within the "deliveryStatus" attribute; and

may include:

- the failure cause within the "failureCause" attribute.

Editor's Note: whether the above attributes are the final version is FFS.

When the Legacy 3GPP Message Gateway receives the HTTP POST request from the MSGin5G Server, the Legacy 3GPP Message Gateway shall respond to the MSGin5G Server with a 204 No Content message.

If errors occur when processing the HTTP POST request, the Legacy 3GPP Message Gateway shall apply error handling procedures as specified in subclause 9.1.6.

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