**3GPP TSG-CT3 Meeting #119bis-e C3-220241**

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

**Source: Huawei, HiSilicon**

**Title: MSGG\_N3GDelivery 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 Non-3GPP Message Gateway Terminating Message and Delivery status report part of TS 29.538.

**2. Reason for Change**

As specified in TS 23 554, Non-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 \* \* \* \*

6.3.2.4.1 General

This service operation corresponds to clause 9.2.2.1.2 as defined in 3GPP TS 23.554 [2], is used by MSGin5G Server to deliver MSGin5G message to the Non-3GPP Message Gateway.

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

6.3.2.4.2 Non-3GPP Message Gateway Terminating Message Delivery

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**Figure 6.3.2.4.2-1: Non-3GPP Message Gateway Terminating Message Delivery**

When the MSGin5G Server needs to send the message to the Non-3GPP Message Gateway, the MSGin5G Server shall send the HTTP POST request towards the "deliver-message" resource as shown in figure 6.3.2.4.2-1.

The MSGin5G Server shall send a POST request to the resource with an N3gMessageDelivery object in the request body.

The N3gMessageDelivery 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 Non-3GPP Message Gateway receives the HTTP POST request from the MSGin5G Server, the Non-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 Non-3GPP Message Gateway shall apply error handling procedures as specified in subclause 9.2.6.

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

6.3.2.5.1 General

This service operation corresponds to clause 9.2.2.2.2 as defined in 3GPP TS 23.554 [2], is used by MSGin5G Server to deliver the delivery status report to the Non-3GPP Message Gateway.

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

6.3.2.5.2 Non-3GPP Message Gateway Terminating Message Delivery Status Report

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**Figure 6.3.2.5.2-1: Non-3GPP Message Gateway Terminating Delivery Status Report**

When the MSGin5G Server needs to send the delivery status report to the Non-3GPP Message Gateway, the MSGin5G Server shall send the HTTP POST request towards the "deliver-report" resource as shown in figure 6.3.2.5.2-1.

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 within the "destAddr" attribute;

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

- 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 Non-3GPP Message Gateway receives the HTTP POST request from the MSGin5G Server, the Non-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 Non-3GPP Message Gateway shall apply error handling procedures as specified in subclause 9.2.6.

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