**3GPP TSG-SA2 Meeting #163 S2-2406931**

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**Source: Lenovo, InterDigital Inc., Charter Communications, CableLabs, CATT, Tencent, Tencent Cloud**

**Title: Key Issue#7, Conclusions update**

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**Agenda Item: 19.3**

**Work Item / Release: FS\_XRM\_Ph2 / Rel-19**

*Abstract of the contribution: This paper proposes update of conclusions for KI#7.*

# 1 Discussion

To support PDU Sets in non-3GPP access, it is agreed that N3IWF/TNGF uses PDU Set Information received in the GTP-U header over N3 to identify PDU Sets. However, how to utilize PDU Set Information to enable PDU set handling is not fully discussed for non-3GPP access. It is proposed to introduce the mapping of DSCP value and PDU Set importance for IPSec Child SA between N3IWF/TNGF and UE for non-3GPP access, which enables PDU set handling in N3IWF/TNGF to some extent.

This paper proposes update of conclusion principles for key issue#7.

# 2 Proposal

**\* \* \* \* Start of Change \* \* \* \***

8.7 Conclusions for Key Issue #7

The following aspects are concluded as principles for the normative work:

1. For wireline access –

a. W-AGF –

i. In addition to PDU QoS parameters, uses the PDU Set QoS parameter(s) sent by SMF over N2 to determine W-UP resources.

ii. Uses PDU Set Information received in the GTP-U header over N3 to identify PDU Sets.

b. 5G-RG –

i. 5G-RG may receive the UL Protocol Description associated with the QoS rule over N1 from SMF to identify PDU Sets.

ii. How the 5G-RG may identify PDU Sets and determine W-UP resources to use is left up to 5G-RG implementation.

2. For untrusted/trusted access –

a. N3IWF/TNGF –

i. In addition to PDU QoS parameters, uses the PDU Set QoS parameter(s) sent by SMF over N2 to determine IPsec Child SAs.

ii. Uses PDU Set Information received in the GTP-U header over N3 to identify PDU Sets.

iii. Based on operator local configuration, optionally, uses the PDU Set Importance received in the GTP-U header to determine the DSCP value for the DL packets.

NOTE: DSCP markings will only be used to vary the drop precedence between PDUs in the transport network nodes (e.g., IP routers) on the NWu/Nwt interfaces. If the Class Selector Codepoint of the DSCP markings varies within an IPsec Child SA, the packets of the IPsec Child SA can be reordered by the transport network.

b. UE –

i. As specified in TS 23.501 [2] clause 5.37.5.1, UE may receive the UL Protocol Description associated with the QoS rule over N1 from SMF to identify PDU Sets. Whether and how the UE may identify UL PDU Sets is left up to UE implementation.

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