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**Title: Key Issue#3, Conclusions**

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**Agenda Item: 19.3**

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*Abstract of the contribution: This paper proposes conclusions for KI#3.*

# 1 Discussion

During the NWM discussion, the main concern for Key Issue#3 is DSCP consistent mapping, e.g., how to avoid the conflicts of DSCP values for different QoS Flows over the N3 link and the relationship with 5QI based DSCP marking.

In TS 23.501 5.8.2.7, it is stated that,

*For every QoS Flow, the SMF shall determine the transport level packet marking value (e.g. the DSCP in the outer IP header) based on the 5QI, the Priority Level (if explicitly signalled) and optionally, the ARP priority level and provide the transport level packet marking value to the UPF.*

Taking PDU Set Importance value(s) into consideration, SMF shall consider 5QI, the Priority Level (if explicitly signalled), ARP priority level (optionally) and PDU Set Importance value(s) when determine the mapping of DSCP value(s) and PDU set importance value(s). E.g., QFI#1 is associated with 5QI#10. QFI#2 is for XR traffic and is associated with 5QI#6. There’s 6 bits for DSCP values and 4 bits for PDU Set Importance values contained in RTP Header Extensions for PDU Set Marking as defined in TS 26.522. It depends on SMF’s implementation to determine the DSCP value for QFI#1, and the mapping of DSCP value(s) and PDU Set Importance value(s) for QFI#2 without conflicts.

Therefore, the above paragraph in TS 23.501 5.8.2.7 can be revised as follows during the normative phase,

*For every QoS Flow, the SMF shall determine the transport level packet marking value (e.g. the DSCP in the outer IP header) based on the 5QI, the Priority Level (if explicitly signalled), the PDU Set Importance level (if available) and optionally, the ARP priority and provide the transport level packet marking value to the UPF.*

This paper proposes conclusion principles for key issue#3.

# 2 Proposal

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

8.X Conclusions for Key Issue #3

The following conclusion principles are agreed for key issue #3.

1. Apart from 5QI, Priority Level and ARP priority level, SMF may further consider PDU set Importance values (if available) to determine the transport level packet marking value (e.g. the DSCP in the outer IP header).
2. SMF provides UPF the mapping of Transport Level Marking for DL packets (N3/N9 interface) and PDU set importance value(s) in the FAR.
3. UPF determines the DSCP value(s) for DL packets based on the PDU Set Importance value(s) associated with specific PDU set.

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