QoS Options

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QoS manager is a convenient and flexible mechanism to manipulate the data streams going through the device. The user can create up to 200 logical QoS channels characterized by different properties (such as priority levels and data transfer rates) and then assign data streams to these logical channels according to special rules of assignment. Packets going through different channels are thus modifying their own properties as well as the properties of their respective data flows.

The following QoS parameters can be selected for traffic prioritization:

QoS Parameter	Description
RTP Packets	- Enable/disable automatic prioritization for all RTP traffic, regardless of the source or the destination IP - Detect and prioritize the RTP packets (for example, if the packet is recognized as a voice packet, then it gets the priority 2, regardless of the previously assigned priority) - Enabled by default
Dot1p Tags	- Enable/disable automatic prioritization for the packets tagged with IEEE 802.1p priority tags - Detect and prioritize the packets using 802.1p tags - Enabled by default
Tunnel Prioritization	- Enable/disable automatic prioritization for the tunnel traffic - Allow prioritization within tunnels
MPLS	Enable/disable automatic prioritization for the packets tagged with MPLS priority tags
IP DSCP	Enable/disable automatic prioritization for the packets tagged with DiffServ priority tags
IP ToS	- Enable/disable automatic prioritization for the packets with a non-zero "ToS" field - Detect and prioritize the packets using IP ToS tags
TCP Acknowledgments	- Enable/disable automatic prioritization for TCP ACK packets - Automatically prioritize TCP acknowledgments

Title

PPPoE	• Enable/disable automatic prioritization for the PPPoE tunnels traffic
ICMP Prioritization	• Enable/disable automatic prioritization for ICMP packets • Allow ICMP traffic prioritization • It does not increase the priority of "ping" packets (although they are ICMP packets)

Table - QoS