



## New and Changed QoS Features

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*Table 1: QoS Features Added or Modified in IOS XR Release 6.6.x*

Feature	Description	Changed in Release	Where Documented
Conditional Marking of MPLS Experimental bits for L2VPN Traffic	This feature enables the conditional marking of MPLS experimental bits for L2VPN traffic on the Provider Edge routers in the imposition direction.	Release 6.6.25	<a href="#">Conditional Marking of MPLS Experimental bits for L2VPN Traffic</a>
Ingress Short-Pipe	Usually, DSCP and precedence-based classifications are supported in QoS traffic only when there is no MPLS label in the packet. Using the ingress short-pipe feature, however, you can classify a packet that contains one MPLS label using the type-of-service (ToS) field of the IPv4 or IPv6 header.	Release 6.6.25	<a href="#">Ingress Short-Pipe</a>

Feature	Description	Changed in Release	Where Documented
Selective egress policy-based queue mapping	The primary aim of introducing egress TC mapping is to classify the traffic in the ingress using a single policy and place the classified traffic into queues, by assigning the traffic classes. At the egress, you can support different grouping of traffic classesTCs.	Release 6.6.25	<a href="#">Selective Egress Policy-Based Queue Mapping</a>
Explicit Congestion Notification	Explicit Congestion Notification (ECN) is an extension to WRED. ECN marks packets instead of dropping them when the average queue length exceeds a specific threshold value. When configured, ECN helps routers and end hosts to understand that the network is congested and slow down sending packets.	Release 6.6.25	<a href="#">Explicit Congestion Notification</a>
QoS L2 Re-Marking of Ethernet Packets on L3 Flows in Egress Direction	This features enables you to perform Layer 2 (802.1p) marking on Layer 3 flows in the egress direction. This allows you to re-mark the priority of Ethernet packets on L3VPN traffic.	Release 6.6.3	<a href="#">QoS L2 Re-Marking of Ethernet Packets on L3 Flows in Egress Direction</a>
Priority Flow Control and Watchdog	Priority Flow Control (PFC) is a mechanism that prevents frame loss that is due to transient congestion.  To detect a bad device, the PFC watchdog mechanism monitors the rate of incoming PFC frames on all PFC-enabled devices.	Release 6.6.3	<a href="#">#unique_12</a>