



## Preface

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This document describes the Cisco IOS XR Quality of Service (QoS) feature for prioritizing traffic flow and providing preferential forwarding for higher-priority packets. The QoS techniques described include allocating bandwidth, improving loss characteristics, avoiding and managing network congestion, metering network traffic, and setting traffic-flow priorities across the network.

For QoS command descriptions, usage guidelines, and examples, refer to the *Cisco IOS XR Modular Quality of Service Command Reference for the Cisco CRS-1 Router*.

The preface contains the following sections:

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- [Obtaining Documentation and Submitting a Service Request, page IR-viii](#)

# Changes to This Document

The following table lists the technical changes made to this document.

**Table 1** *Changes to This Document*

| Release          | Revision    | Date           | Change Summary   |
|------------------|-------------|----------------|--|
| Cisco IOS XR 3.9 | OL-20388-01 | December, 2009 | Initial release of this document.  |
| Cisco IOS XR 3.9 | OL-20388-02 | March, 2010    | <p>In the “Configuring Modular Quality of Service Packet Classification on Cisco IOS XR Software” chapter:</p> <ul style="list-style-type: none"> <li>Updated tables 1, 2, 3, and 4 that describe matching and marking operations to include additional support and indicate some operations as not being supported on ATM interfaces (CSCsv50430). Added bundle interface information to these tables.</li> <li>Corrected the configuration steps for “Applying the Route Policy to BGP.” Removed the <b>route-policy</b> command, added the <b>address-family</b> and <b>table-policy</b> commands.</li> </ul> <p>In the “Configuring Modular QoS Congestion Avoidance on Cisco IOS XR Software” chapter:</p> <ul style="list-style-type: none"> <li>Removed the restriction about configuring either the <b>shape average, bandwidth, or bandwidth remaining percent</b> commands in the user defined policy map class for the <b>random-detect</b> command to take effect (CSCsl69571).</li> </ul> |

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

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