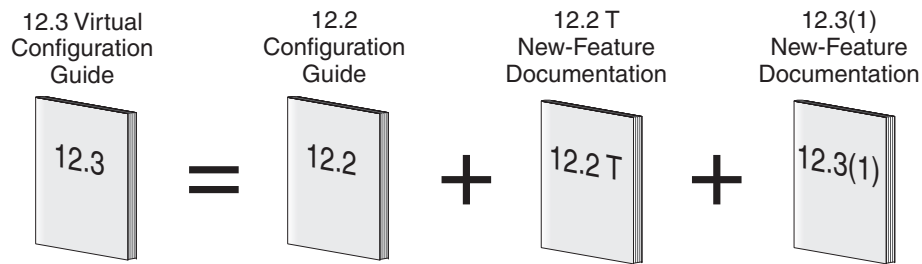


Cisco IOS Quality of Service Solutions Configuration Guide, Release 12.3

The *Cisco IOS Quality of Service Solutions Configuration Guide*, Release 12.3 (known as a “virtual configuration guide”) consists of the Cisco IOS Release 12.2 configuration guide and new-feature documentation for Cisco IOS Releases 12.2 T and 12.3(1).



In some cases, information contained in the new-feature documentation for Cisco IOS Release 12.3(1) and early-deployment Cisco IOS releases numbered 12.2 T augments or supersedes content in the Cisco IOS Release 12.2 configuration guides. New-feature documentation in later 12.2 T releases may replace new-feature documentation in earlier 12.2 T releases.

The following outline includes links to Cisco IOS Release 12.2 chapters and Cisco IOS Release 12.2 T new-feature documentation. Use these documents to configure your Cisco IOS Release 12.3 features.

Overview

- Chapter: [About Cisco IOS Software Documentation for Release 12.3](#) (12.3 document)
- Chapter: [Using Cisco IOS Software for Release 12.3](#) (12.3 document)
- Chapter: [Quality of Service Overview](#) (12.2 document; also pertains to 12.3*)

Part 1: Classification

- Chapter: [Classification Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Policy-Based Routing](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring QoS Policy Propagation via Border Gateway Protocol](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Committed Access Rate](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Class-Based Packet Marking](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Class-Based Marking](#) (12.2(2)T document)
- Chapter: [Configuring Packet Marking and Packet Classification Enhancements](#) (12.3 virtual chapter)
 - New Feature: [Enhanced Packet Marking](#) (12.2(13)T document)
 - New Feature: [Packet Classification Using Frame Relay DLCI Number](#) (12.2(13)T document)
 - New Feature: [Packet Classification Based on Layer 3 Packet Length](#) (12.2(13)T document)

- New Feature: [Modular QoS CLI \(MQC\) Unconditional Packet Discard](#) (12.2 (13)T document)
- Chapter: [Configuring QoS for Virtual Private Networks](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Quality of Service for Virtual Private Networks](#) (12.2(2)T document)
- Chapter: [Configuring Network-Based Application Recognition](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Network-Based Application Recognition](#) (12.2(8)T document)
 - New Feature: [Network-Based Application Recognition Protocol Discovery Management Information Base](#) (12.2(15)T document)

Part 2: Congestion Management

- Chapter: [Congestion Management Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Weighted Fair Queueing](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Low Latency Queueing with Priority Percentage Support](#) (12.2(2)T document)
 - New Feature: [Low Latency Queueing \(LLQ\) for IPSec Encryption Engines](#) (12.2(13)T document)
- Chapter: [Configuring Custom Queueing](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Priority Queueing](#) (12.2 document; also pertains to 12.3*)

Part 3: Congestion Avoidance

- Chapter: [Congestion Avoidance Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Weighted Random Early Detection](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [WRED - Explicit Congestion Notification \(ECN\)](#) (12.2(8)T document)

Part 4: Policing and Shaping

- Chapter: [Policing and Shaping Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Traffic Policing](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Traffic Policing](#) (12.2(2)T document)
 - New Feature: [Two-Rate Policer](#) (12.2(4)T document)
 - New Feature: [Policer Enhancement - Multiple Actions](#) (12.2 (8)T document)
 - New Feature: [Percentage-Based Policing and Shaping](#) (12.2(13)T document)
 - New Feature: [Modular QoS CLI \(MQC\) Three-Level Hierarchical Policer](#) (12.2(13)T document)
 - New Feature: [ATM Policing by Service Category for SVC/SoftPVC](#) (12.2(13)T document)
- Chapter: [Configuring Generic Traffic Shaping](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Class-Based Shaping](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Distributed Traffic Shaping](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Distributed Traffic Shaping](#) (12.2(8)T document)

Part 5: Signalling

- Chapter: [Signalling Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring RSVP](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Control Plane DSCP Support for RSVP](#) (12.2(2)T document)
 - New Feature: [RSVP Scalability Enhancements](#) (12.2(2)T document)
 - New Feature: [RSVP Support for ATM/PVCs](#) (12.2(2)T document)
 - New Feature: [RSVP Local Policy Support](#) (12.2(13)T document)
 - New Feature: [RSVP Refresh Reduction and Reliable Messaging](#) (12.2(13)T document)
 - New Feature: [RSVP Support for RTP Header Compression, Phase 1](#) (12.2(15)T document)
 - New Feature: [RSVP Message Authentication](#) (12.2(15)T document)
- Chapter: [Configuring RSVP Support for LLQ](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring RSVP Support for Frame Relay](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring RSVP-ATM QoS Interworking](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring COPS for RSVP](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Subnetwork Bandwidth Manager](#) (12.2 document; also pertains to 12.3*)

Part 6: Link Efficiency Mechanisms

- Chapter: [Link Efficiency Mechanisms Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Link Fragmentation and Interleaving for Multilink PPP](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring Link Fragmentation and Interleaving for Frame Relay and ATM Virtual Circuits](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Distributed Link Fragmentation and Interleaving for Frame Relay and ATM Interfaces on Cisco 7500 Series Routers](#) (12.2(4)T document)
- Chapter: [Configuring Distributed Link Fragmentation and Interleaving Over Leased Lines](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Distributed Link Fragmentation and Interleaving Over Leased Lines](#) (12.2(8)T document)
- Chapter: [Configuring Compressed Real-Time Protocol](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [Class-Based RTP and TCP Header Compression](#) (12.2(13)T document)
- Chapter: [Configuring Distributed Compressed Real-Time Protocol](#) (12.2 document; also pertains to 12.3*)

Part 7: Quality of Service Solutions

- Chapter: [IP to ATM Class of Service Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring IP to ATM Class of Service](#) (12.2 document; also pertains to 12.3*)
 - New Feature: [IP to ATM CoS Mapping for SVC Bundles](#) (12.2(4)T document)
 - New Feature: [ATM PVC Bundle Enhancement - MPLS EXP-Based PVC Selection](#) (12.2(8)T document)
- Chapter: [QoS Features for Voice](#) (12.2 document; also pertains to 12.3*)

- New Feature: [Voice and Quality of Service Features for ADSL and G.SHDSL on Cisco 1700, Cisco 2600, and Cisco 3600 Series Routers](#) (12.2(13)T document)
- Chapter: [Implementing DiffServ for End-to-End Quality of Service Overview](#) (12.2 document; also pertains to 12.3*)

Part 8: Modular Quality of Service Command-Line Interface

- Chapter: [Modular Quality of Service Command-Line Interface Overview](#) (12.2 document; also pertains to 12.3*)
- Chapter: [Configuring the Modular Quality of Service Command-Line Interface](#) (12.2 document; also pertains to 12.3*)

Part 9: Security Device Manager

- Chapter: [Security Device Manager Overview](#) (12.2 document; also pertains to 12.3*)

Part 10: AutoQoS

- Chapter: [AutoQoS Overview](#) (12.3 virtual chapter)
- Chapter: [Configuring AutoQoS](#) (12.3 virtual chapter)
 - New Feature: [AutoQoS - VoIP](#) (12.2(15)T document)

New-Features List and Feature Guide Book-Level PDF for Cisco IOS Quality of Service Solutions, Release 12.3

Click the above link to access an alphabetically ordered new-features list and a feature guide book-level PDF for the Quality of Service technology area.

Book Index to the Cisco IOS Quality of Service Solutions Configuration Guide, Release 12.2

Click the above link to display the index of the *Cisco IOS Quality of Service Solutions Configuration Guide*, Release 12.2. This index does not include the new-feature documentation for the releases numbered 12.2 T.

Book-Level PDF for Cisco IOS Quality of Service Solutions Configuration Guide, Release 12.2

Click the above link to download the book-level PDF of the *Cisco IOS Quality of Service Solutions Configuration Guide*, Release 12.2. This book-level PDF does not include the new-feature documentation for the releases numbered 12.2 T.

*Cisco IOS Release 12.2 documents are still current for Cisco IOS Release 12.3 where not superseded by Cisco IOS Release 12.2 T and 12.3(1) new-feature documentation.