



Preface

The Quality of Service (QoS) Configuration document describes the features that are used to prevent traffic congestion; and provides procedures to configure these features.

Audience

This guide is for network administrators with the following experience and knowledge:

- An understanding of virtualization
- Using VMware tools to configure a vswitch



Note

Knowledge of VMware vNetwork Distributed Switch is not a prerequisite.

Organization

This publication is organized as follows:

Chapter	Description
Chapter 1, “Overview”	Provides an overview of QoS features and lists supported RFPs.
Chapter 2, “Configuring QoS Classification”	Describes how to classify network traffic.
Chapter 3, “Configuring QoS Marking Policies”	Describes how to mark network traffic.
Chapter 4, “Configuring QoS Policing”	Describes how to police network traffic.
Chapter 5, “Monitoring QoS Statistics”	Describes how to enable and view QoS statistics.
Chapter 6, “Configuring Class Based Weighted Fair Queuing”	Describes how to configure Class Based Weighted Fair Queuing.
Appendix 7, “DSCP and Precedence Values”	Provides the DSCP and precedence values used in QoS class maps and policy maps.
Appendix 8, “QoS Configuration Limits”	Provides information about limitations in configuring QoS.

Document Conventions

This publication uses the following conventions:

Command descriptions use these conventions:

boldface font	Commands and keywords are in boldface.
<i>italic font</i>	Arguments for which you supply values are in italics.
{ }	Elements in braces are required choices.
[]	Elements in square brackets are optional.
x y x	Alternative, mutually exclusive elements are separated by vertical bars.

Screen examples use these conventions:

screen font	Terminal sessions and information that the switch displays are in screen font.
boldface screen font	Information that you must enter is in boldface screen font.
<i>italic screen font</i>	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or number sign (#) at the beginning of a line of code indicates a comment line.



Note

Means reader *take note*. Notes contain helpful suggestions or references to material not covered in the manual.



Caution

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Recommended Reading

Before configuring this feature in the Cisco Nexus 1000V, we recommend that you read and become familiar with the following documentation:

- *Cisco Nexus 1000V Getting Started Guide, Release 4.2(1)SV1(4)*
- *Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SV1(4)*
- *Cisco VN-Link: Virtualization-Aware Networking white paper*