



Preface

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This preface describes who should read the *Catalyst 6500 Series Switch Software Configuration Guide*, how it is organized, and its document conventions.

Audience

This publication is for experienced network administrators who are responsible for configuring and maintaining Catalyst 6500 series switches.

Organization



Note

Catalyst 6000 Family Multilayer Switch Feature Card (12.x) and Policy Feature Card Configuration Guide

This publication is organized as follows:

Chapter	Title	Description
Chapter 1	Product Overview	Presents an overview of the Catalyst 6500 series switches.
Chapter 2	Command-Line Interfaces	Describes how to use the command-line interface (CLI).
Chapter 3	Configuring the Switch IP Address and Default Gateway	Describes how to perform a baseline configuration of the switch.
Chapter 4	Configuring Ethernet, Fast Ethernet, Gigabit Ethernet, and 10-Gigabit Ethernet Switching	Describes how to configure Ethernet, Fast Ethernet, and Gigabit Ethernet switching.
Chapter 5	Configuring Ethernet VLAN Trunks	Describes how to configure Inter-Switch Link (ISL) and IEEE 802.1Q VLAN trunks on Fast Ethernet and Gigabit Ethernet ports.
Chapter 6	Configuring EtherChannel	Describes how to configure Fast EtherChannel and Gigabit EtherChannel port bundles.

Chapter 7	Configuring Spanning Tree	Describes how to configure the Spanning Tree Protocol and explains how spanning tree works.
Chapter 8	Configuring IEEE 802.1Q Tunneling and Layer 2 Protocol Tunneling	Describes how to configure 802.1Q tunneling.
Chapter 9	Configuring Spanning-Tree PortFast, UplinkFast, BackboneFast, and Loop Guard	Describes how to configure the spanning tree PortFast, UplinkFast, and BackboneFast features.
Chapter 10	Configuring VTP	Describes how to configure VLAN Trunking Protocol (VTP) on the switch.
Chapter 11	Configuring VLANs	Describes how to configure VLANs on the switch.
Chapter 12	Configuring InterVLAN Routing	Describes how to configure interVLAN routing on the MSFC.
Chapter 13	Configuring CEF for PFC2 and PFC3A	Describes how to configure Cisco Express Forwarding for Policy Feature Card 2 (CEF for PFC2).
Chapter 14	Configuring MLS	Describes how to configure Multilayer Switching (MLS).
Chapter 15	Configuring Access Control	Describes how to configure access control lists (ACLs).
Chapter 16	Configuring NDE	Describes how to configure NetFlow Data Export (NDE).
Chapter 17	Configuring GVRP	Describes how to configure GARP VLAN Registration Protocol (GVRP) on the switch.
Chapter 18	Configuring MVRP	Describes how to configure Multiple VLAN Registration Protocol (MVRP) on the switch.
Chapter 19	Configuring Dynamic Port VLAN Membership with VMPS	Describes how to configure dynamic port VLAN membership on the switch using the VLAN Management Policy Server (VMPS).
Chapter 20	Checking Status and Connectivity	Describes how to display information about modules and switch ports and how to check connectivity using ping, Telnet, and IP traceroute.
Chapter 21	Configuring GOLD	Describes how to configure the online diagnostics.
Chapter 22	Administering the Switch	Describes how to set the system name, create a login banner, and perform other administrative tasks on the switch.
Chapter 23	Configuring Redundancy	Describes how to install and configure redundant supervisor engines and MSFCs in the Catalyst 6500 series switches.
Chapter 24	Configuring NSF with SSO MSFC Redundancy	Describes how to configure MSFC redundancy using Cisco nonstop forwarding (NSF) with stateful switchover (SSO).
Chapter 25	Modifying the Switch Boot Configuration	Describes how to modify the switch boot configuration, including the BOOT environment variable and the configuration register.
Chapter 26	Working With the Flash File System	Describes how to work with the Flash file system.
Chapter 27	Working with System Software Images	Describes how to download and upload system software images.
Chapter 28	Working with Configuration Files	Describes how to create, download, and upload switch configuration files.
Chapter 29	Configuring System Message Logging	Describes how to configure system message logging (syslog).
Chapter 30	Configuring DNS	Describes how to configure Domain Name System (DNS).
Chapter 31	Configuring CDP	Describes how to configure Cisco Discovery Protocol (CDP).

Chapter 32	Configuring UDLD	Describes how to configure the UniDirectional Link Detection (UDLD) protocol.
Chapter 33	Configuring DHCP Snooping and IP Source Guard	Describes how to configure DHCP snooping and IP source guard.
Chapter 34	Configuring NTP	Describes how to configure Network Time Protocol (NTP).
Chapter 35	Configuring Broadcast Suppression	Describes how to configure hardware and software broadcast suppression.
Chapter 36	Configuring Layer 3 Protocol Filtering	Describes how to configure protocol filtering on Ethernet, Fast Ethernet, and Gigabit Ethernet ports.
Chapter 37	Configuring the IP Permit List	Describes how to configure the IP permit list.
Chapter 38	Configuring Port Security	Describes how to configure secure port filtering.
Chapter 39	Configuring the Switch Access Using AAA	Describes how to configure authentication, authorization, and accounting (AAA) to monitor and control access to the CLI.
Chapter 40	Configuring 802.1X Authentication	Describes how to configure 802.1X authentication.
Chapter 41	Configuring MAC Authentication Bypass	Describes how to configure MAC authentication bypass.
Chapter 42	Configuring Web-Based Proxy Authentication	Describes how to configure web-based proxy authentication.
Chapter 43	Tracking Host Aging	Describes how to configure IP device tracking.
Chapter 44	Configuring Network Admission Control	Describes how to configure Network Admission Control (NAC).
Chapter 45	Configuring Unicast Flood Blocking	Describes how to configure unicast flood blocking.
Chapter 47	Configuring SNMP	Describes how to configure SNMP.
Chapter 48	Configuring RMON	Describes how to configure Remote Monitoring (RMON).
Chapter 49	Configuring SPAN, RSPAN and the Mini Protocol Analyzer	Describes how to configure the Switch Port Analyzer (SPAN) and Remote SPAN (RSPAN).
Chapter 50	Using Switch TopN Reports	Describes how to generate switch TopN reports.
Chapter 51	Configuring Multicast Services	Describes how to configure Internet Group Management Protocol (IGMP) snooping, GARP Multicast Registration Protocol (GMRP), and Router Group Management Protocol (RGMP).
Chapter 52	Configuring QoS	Describes how to configure Quality of Service (QoS).
Chapter 53	Using Automatic QoS	Describes how to use the automatic QoS configuration features.
Chapter 54	Configuring ASLB	Describes how to configure accelerated server load balancing (ASLB).
Chapter 54	Configuring the Switch Fabric Modules	Describes how to configure the Switch Fabric Modules.
Chapter 55	Configuring a VoIP Network	Describes how to configure a Voice-over-IP (VoIP) network.
Chapter 56	Configuring the MSFC Cisco IOS Features	Describes how Cisco IOS features that are used with the Catalyst operating system provide feature functionality and parity between these operating systems.
Appendix A	Acronyms	Lists the acronyms used in this publication.

Related Documentation

- *Catalyst 6500 Series Ethernet Modules Installation Guide*
Catalyst 6500 Series Switches Installation Guide
Catalyst 6500 Series Switch Command Reference
ATM Software Configuration and Command Reference—Catalyst 5000 Family and Catalyst 6000 Family Switches
Catalyst 6500 Series Switch System Message Guide
Release Notes for Catalyst 6500 Series Switch Software Release 7.x
- Cisco IOS Configuration Guides and Command References—Use these publications to help you configure the Cisco IOS software that runs on the MSFC, MSM, and ATM modules.
- For information about MIBs, refer to this URL:
<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

Conventions



Note

supervisor engine
MSFC

Convention	Description
boldface	boldface
[]	Elements in square brackets are optional.
{ x y z }	Alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen	screen
boldface screen	boldface screen
→	This pointer highlights an important line of text in an example.

^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.



reader take note



Caution

reader be careful

Obtaining Documentation and Submitting a Service Request

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What's New in Cisco Product Documentation

