



Catalyst 2960 Switch System Message Guide

Cisco IOS Release 12.2(25)FX September 2005

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Preface

Audience

This guide is for the networking professional managing the Catalyst 2960 switch, hereafter referred to as *the switch*. Before using this guide, you should have experience working with the Cisco IOS software and the switch software features.

Purpose

This guide describes only the Catalyst 2960-specific system messages that you might encounter. For a complete list of Cisco IOS system error messages, see the *Cisco IOS Software System Error Messages*, *Cisco IOS Release 12.2*.

This guide does not describe how to install your switch or how to configure software features on your switch. It also does not provide detailed information about commands that have been created or changed for use by the switch. For hardware installation information, see the hardware installation guide that shipped with your switch. For software information, see the software configuration guide and the command reference for this release.

For documentation updates, see the release notes for this release.

Conventions

This publication uses these conventions to convey instructions and information:

Command descriptions use these conventions:

- Commands and keywords are in **boldface** text.
- Arguments for which you supply values are in *italic*.
- Square brackets ([]) mean optional elements.
- Braces ({ }) group required choices, and vertical bars (|) separate the alternative elements.
- Braces and vertical bars within square brackets ([{ | }]) mean a required choice within an optional element.

Interactive examples use these conventions:

- Terminal sessions and system displays are in screen font.
- Information you enter is in boldface screen font.
- Nonprinting characters, such as passwords or tabs, are in angle brackets (<>).

Notes use this convention and symbol:



Means reader take note. Notes contain helpful suggestions or references to materials not in this manual.

Related Publications

These documents provide complete information about the switch and are available from this Cisco.com site:

http://www.cisco.com/univered/cc/td/doc/product/lan/cat2960/index.htm



Before installing, configuring, or upgrading the switch, see these documents:

- For initial configuration information, see the "Using Express Setup" chapter in the getting started guide or the "Configuring the Switch with the CLI-Based Setup Program" appendix in the hardware installation guide.
- For device manager requirements, see the "System Requirements" section in the release notes (not orderable but available on Cisco.com).
- For Network Assistant requirements, see the *Getting Started with Cisco Network Assistant* (not orderable but available on Cisco.com).
- For cluster requirements, see the *Release Notes for Cisco Network Assistant* (not orderable but available on Cisco.com).
- For upgrade information, see the "Downloading Software" section in the release notes.

You can order printed copies of documents with a DOC-xxxxxx= number from the Cisco.com sites and from the telephone numbers listed in the "Obtaining Documentation" section on page vii.

- Release Notes for the Catalyst 2960 Switches (not orderable but available on Cisco.com)
- Catalyst 2960 Switch Software Configuration Guide (order number DOC-7816881=)
- Catalyst 2960 Switch Command Reference (order number DOC-7816882=)
- Catalyst 2960 Switch System Message Guide (order number DOC-7816883=)
- Device manager online help (available on the switch)
- Catalyst 2960 Switch Hardware Installation Guide (not orderable but available on Cisco.com)
- Catalyst 2960 Switch Getting Started Guide (order number DOC-7816879=)
- Regulatory Compliance and Safety Information for the Catalyst 2960 Switch (order number DOC-7816880=)
- Getting Started with Cisco Network Assistant (not orderable but available on Cisco.com)
- Release Notes for Cisco Network Assistant (not orderable but available on Cisco.com)

- Cisco Small Form-Factor Pluggable Modules Installation Notes (order number DOC-7815160=)
- Cisco CWDM GBIC and CWDM SFP Installation Note (not orderable but available on Cisco.com)
- Cisco RPS 300 Redundant Power System Hardware Installation Guide (order number DOC-7810372=)
- Cisco RPS 675 Redundant Power System Hardware Installation Guide (order number DOC-7815201=)

Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation at this URL:

http://www.cisco.com/techsupport

You can access the Cisco website at this URL:

http://www.cisco.com

You can access international Cisco websites at this URL:

http://www.cisco.com/public/countries_languages.shtml

Product Documentation DVD

Cisco documentation and additional literature are available in the Product Documentation DVD package, which may have shipped with your product. The Product Documentation DVD is updated regularly and may be more current than printed documentation.

The Product Documentation DVD is a comprehensive library of technical product documentation on portable media. The DVD enables you to access multiple versions of hardware and software installation, configuration, and command guides for Cisco products and to view technical documentation in HTML. With the DVD, you have access to the same documentation that is found on the Cisco website without being connected to the Internet. Certain products also have .pdf versions of the documentation available.

The Product Documentation DVD is available as a single unit or as a subscription. Registered Cisco.com users (Cisco direct customers) can order a Product Documentation DVD (product number DOC-DOCDVD=) from Cisco Marketplace at this URL:

http://www.cisco.com/go/marketplace/

Ordering Documentation

Beginning June 30, 2005, registered Cisco.com users may order Cisco documentation at the Product Documentation Store in the Cisco Marketplace at this URL:

http://www.cisco.com/go/marketplace/

Nonregistered Cisco.com users can order technical documentation from 8:00 a.m. to 5:00 p.m. (0800 to 1700) PDT by calling 1 866 463-3487 in the United States and Canada, or elsewhere by calling 011 408 519-5055. You can also order documentation by e-mail at tech-doc-store-mkpl@external.cisco.com or by fax at 1 408 519-5001 in the United States and Canada, or elsewhere at 011 408 519-5001.

Documentation Feedback

You can rate and provide feedback about Cisco technical documents by completing the online feedback form that appears with the technical documents on Cisco.com.

You can send comments about Cisco documentation to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems Attn: Customer Document Ordering 170 West Tasman Drive San Jose, CA 95134-9883

We appreciate your comments.

Cisco Product Security Overview

Cisco provides a free online Security Vulnerability Policy portal at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

From this site, you can perform these tasks:

- Report security vulnerabilities in Cisco products.
- Obtain assistance with security incidents that involve Cisco products.
- Register to receive security information from Cisco.

A current list of security advisories and notices for Cisco products is available at this URL:

http://www.cisco.com/go/psirt

If you prefer to see advisories and notices as they are updated in real time, you can access a Product Security Incident Response Team Really Simple Syndication (PSIRT RSS) feed from this URL:

http://www.cisco.com/en/US/products/products_psirt_rss_feed.html

Reporting Security Problems in Cisco Products

Cisco is committed to delivering secure products. We test our products internally before we release them, and we strive to correct all vulnerabilities quickly. If you think that you might have identified a vulnerability in a Cisco product, contact PSIRT:

• Emergencies—security-alert@cisco.com

An emergency is either a condition in which a system is under active attack or a condition for which a severe and urgent security vulnerability should be reported. All other conditions are considered nonemergencies.

• Nonemergencies—psirt@cisco.com

In an emergency, you can also reach PSIRT by telephone:

- 1 877 228-7302
- 1 408 525-6532



We encourage you to use Pretty Good Privacy (PGP) or a compatible product to encrypt any sensitive information that you send to Cisco. PSIRT can work from encrypted information that is compatible with PGP versions 2.x through 8.x.

Never use a revoked or an expired encryption key. The correct public key to use in your correspondence with PSIRT is the one linked in the Contact Summary section of the Security Vulnerability Policy page at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

The link on this page has the current PGP key ID in use.

Obtaining Technical Assistance

Cisco Technical Support provides 24-hour-a-day award-winning technical assistance. The Cisco Technical Support & Documentation website on Cisco.com features extensive online support resources. In addition, if you have a valid Cisco service contract, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not have a valid Cisco service contract, contact your reseller.

Cisco Technical Support & Documentation Website

The Cisco Technical Support & Documentation website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, at this URL:

http://www.cisco.com/techsupport

Access to all tools on the Cisco Technical Support & Documentation website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

http://tools.cisco.com/RPF/register/register.do



Use the Cisco Product Identification (CPI) tool to locate your product serial number before submitting a web or phone request for service. You can access the CPI tool from the Cisco Technical Support & Documentation website by clicking the **Tools & Resources** link under Documentation & Tools. Choose **Cisco Product Identification Tool** from the Alphabetical Index drop-down list, or click the **Cisco Product Identification Tool** link under Alerts & RMAs. The CPI tool offers three search options: by product ID or model name; by tree view; or for certain products, by copying and pasting **show** command output. Search results show an illustration of your product with the serial number label location highlighted. Locate the serial number label on your product and record the information before placing a service call.

Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool provides recommended solutions. If your issue is not resolved using the recommended resources, your service request is assigned to a Cisco engineer. The TAC Service Request Tool is located at this URL:

http://www.cisco.com/techsupport/servicerequest

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55 USA: 1 800 553-2447

For a complete list of Cisco TAC contacts, go to this URL:

http://www.cisco.com/techsupport/contacts

Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is "down," or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

• Cisco Marketplace provides a variety of Cisco books, reference guides, documentation, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:

http://www.cisco.com/go/marketplace/

• Cisco Press publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:

http://www.ciscopress.com

Packet magazine is the Cisco Systems technical user magazine for maximizing Internet and
networking investments. Each quarter, Packet delivers coverage of the latest industry trends,
technology breakthroughs, and Cisco products and solutions, as well as network deployment and
troubleshooting tips, configuration examples, customer case studies, certification and training
information, and links to scores of in-depth online resources. You can access Packet magazine at
this URL:

http://www.cisco.com/packet

• *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:

http://www.cisco.com/go/iqmagazine

or view the digital edition at this URL:

http://ciscoiq.texterity.com/ciscoiq/sample/

• Internet Protocol Journal is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:

http://www.cisco.com/ipj

 Networking products offered by Cisco Systems, as well as customer support services, can be obtained at this URL:

http://www.cisco.com/en/US/products/index.html

Networking Professionals Connection is an interactive website for networking professionals to share
questions, suggestions, and information about networking products and technologies with Cisco
experts and other networking professionals. Join a discussion at this URL:

http://www.cisco.com/discuss/networking

 World-class networking training is available from Cisco. You can view current offerings at this URL:

http://www.cisco.com/en/US/learning/index.html

Obtaining Additional Publications and Information



System Message Overview

This guide describes the Catalyst 2960-specific system messages. During operation, the system software sends these messages to the console (and, optionally, to a logging server on another system). Not all system messages indicate problems with your system. Some messages are purely informational, whereas others can help diagnose problems with communications lines, internal hardware, or the system software. This guide also includes error messages that appear when the system fails.

For information about system messages that are not Catalyst 2960 platform-specific, see the *Cisco IOS Software System Messages* for *Cisco IOS Release 12.2S*.

This chapter contains these sections:

- How to Read System Messages, page 1-1
- Error Message Traceback Reports, page 1-4

How to Read System Messages

System log messages can contain up to 80 characters and a percent sign (%), which follows the optional sequence number or time stamp information, if configured. Messages are displayed in this format:

seq no:timestamp: %facility-severity-MNEMONIC:description

By default, a switch sends the output from system messages to a logging process.

Each system message begins with a percent sign (%) and is structured as follows:

%FACILITY-SEVERITY-MNEMONIC: Message-text

FACILITY is a code consisting of two or more uppercase letters that show the facility to which the
message refers. A facility can be a hardware device, a protocol, or a module of the system software.
Table 1-1 lists Catalyst 2960-specific facility codes. These messages are described in Chapter 2,
"Message and Recovery Procedures," in alphabetical order by facility code, with the most severe
(lowest number) errors described first.

Table 1-1 Facility Codes

Facility Code	Description	Location
ACLMGR	ACL manager	"ACLMGR Messages" section on page 2-2
CMP	Cluster Membership Protocol	"CMP Messages" section on page 2-6
DHCP_SNOOPING	DHCP snooping	"DHCP_SNOOPING Messages" section on page 2-7
DOT1X	IEEE 802.1x	"DOT1X Messages" section on page 2-10
DTP	Dynamic Trunking Protocol	"DTP Messages" section on page 2-15
EC	EtherChannel	"EC Messages" section on page 2-17
ETHCNTR	Ethernet Controller	"ETHCNTR Messages" section on page 2-21
EXPRESS_SETUP	Express Setup	"EXPRESS_SETUP Messages" section on page 2-21
GBIC_SECURITY	Gigabit Interface Converter (GBIC) module and small form-factor pluggable (SFP) module security	"GBIC_SECURITY Messages" section on page 2-22
GBIC_SECURITY_CRYPT	GBIC and SFP module security	"GBIC_SECURITY_CRYPT Messages" section on page 2-23
GBIC_SECURITY_UNIQUE	GBIC and SFP module security	"GBIC_SECURITY_UNIQUE Messages" section on page 2-24
HARDWARE	Hardware	"HARDWARE Messages" section on page 2-25
HLFM	Local forwarding manager	"HLFM Messages" section on page 2-26
IDBMAN	Interface description block manager	"IDBMAN Messages" section on page 2-27
IGMP_QUERIER	Internet Group Management Protocol (IGMP) querier	"IGMP_QUERIER Messages" section on page 2-30
ILET	Cisco IOS License Enforcement Test (ILET)	"ILET Messages" section on page 2-31
MAC_LIMIT	MAC address table entries	"MAC_LIMIT Messages" section on page 2-31
MAC_MOVE	Host activity	"MAC_MOVE Messages" section on page 2-32
PHY	PHY	"PHY Messages" section on page 2-32
PLATFORM	Low-level platform-specific	"PLATFORM Messages" section on page 2-34
PLATFORM_PM	Platform port manager	"PLATFORM_PM Messages" section on page 2-34
PLATFORM_VLAN	Platform VLAN	"PLATFORM_VLAN Messages" section on page 2-35
PM	Port manager	"PM Messages" section on page 2-36
PORT_SECURITY	Port security	"PORT_SECURITY Messages" section on page 2-44
QOSMGR	QoS manager	"QOSMGR Messages" section on page 2-45
RMON	Remote Network Monitoring (RMON)	"RMON Messages" section on page 2-50
SPAN	Switched Port Analyzer	"SPAN Messages" section on page 2-51
SPANTREE	Spanning Tree	"SPANTREE Messages" section on page 2-51
•		The state of the s

Table 1-1 Facility Codes (continued)

Facility Code	Description	Location
SPANTREE_FAST	Spanning-tree fast convergence	"SPANTREE_FAST Messages" section on page 2-58
SPANTREE_VLAN_SW	Spanning-tree VLAN switch	"SPANTREE_VLAN_SW Messages" section on page 2-59
STORM_CONTROL	Storm control	"STORM_CONTROL Messages" section on page 2-59
SUPERVISOR	Supervisor ASIC	"SUPERVISOR Messages" section on page 2-60
SUPQ	Supervisor queue	"SUPQ Messages" section on page 2-60
SW_VLAN	VLAN manager	"SW_VLAN Messages" section on page 2-62
SWITCH_QOS_TB	QoS trusted boundary	"SWITCH_QOS_TB Messages" section on page 2-68
TCAMMGR	Ternary content addressable memory manager	"TCAMMGR Messages" section on page 2-68
UDLD	UniDirectional Link Detection	"UDLD Messages" section on page 2-70
UFAST_MCAST_SW	UplinkFast packet transmission	"UFAST_MCAST_SW Messages" section on page 2-72
VQPCLIENT	VLAN Query Protocol client	"VQPCLIENT Messages" section on page 2-73

• SEVERITY is a single-digit code from 0 to 7 that reflects the severity of the condition. The lower the number, the more serious the situation. Table 1-2 lists the message severity levels.

Table 1-2 Message Severity Levels

Severity Level	Description	
0 – emergency	System is unusable.	
1 – alert	Immediate action required.	
2 – critical	Critical condition.	
3 – error	Error condition.	
4 – warning	Warning condition.	
5 – notification	Normal but significant condition.	
6 – informational	Informational message only.	
7 – debugging	Message that appears during debugging only.	

- MNEMONIC is a code that uniquely identifies the message.
- Message-text is a text string describing the condition. This portion of the message sometimes contains detailed information about the event, including terminal port numbers, network addresses, or addresses that correspond to locations in the system memory address space. Because the information in these variable fields changes from message to message, it is represented here by short strings enclosed in square brackets ([]). A decimal number, for example, is represented as [dec]. Table 1-3 lists the variable fields in messages.

Table 1-3 Representation of Variable Fields in Messages

Representation	Type of Information
[dec]	Decimal integer
[char]	Single character
[chars]	Character string
[enet]	Ethernet address (for example, 0000.FEED.00C0)
[hex]	Hexadecimal integer
[inet]	Internet address

This example shows a partial switch system message:

```
00:00:46: %LINK-3-UPDOWN: Interface Port-channel1, changed state to up
00:00:47: %LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed state to up
00:00:47: %LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed state to up
00:00:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down
00:00:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed
state to down 2
*Mar 1 18:46:11: %SYS-5-CONFIG_I: Configured from console by vty2 (10.34.195.36)
18:47:02: %SYS-5-CONFIG_I: Configured from console by vty2 (10.34.195.36)
*Mar 1 18:48:50.483 UTC: %SYS-5-CONFIG_I: Configured from console by vty2 (10.34.195.36)
```

Error Message Traceback Reports

Some messages describe internal errors and contain traceback information. This information is very important and should be included when you report a problem to your technical support representative.

This message example includes traceback information:

```
-Process= "Exec", level= 0, pid= 17
-Traceback= 1A82 1AB4 6378 A072 1054 1860
```

Some system messages ask you to copy the error messages and take further action. These online tools also provide more information about system error messages.

Output Interpreter

The Output Interpreter provides additional information and suggested fixes based on the output of many CLI commands, such as the the **show tech-support** privileged EXEC command. You can access the Output Interpreter at this URL:

https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl

Bug Toolkit

The Bug Toolkit provides information on open and closed caveats, and allows you to search for all known bugs in a specific Cisco IOS Release. You can access the Bug Toolkit at this URL:

http://www.cisco.com/cgi-bin/Support/Bugtool/home.pl

Contacting TAC

If you cannot determine the nature of the error, see the "Obtaining Technical Assistance" section on page ix for further information.

Error Message Traceback Reports



Message and Recovery Procedures

This chapter describes the Catalyst 2960-specific system messages in alphabetical order by facility. Within each facility, the messages are listed by severity levels 0 to 7: 0 is the highest severity level, and 7 is the lowest severity level. Each message is followed by an explanation and a recommended action.



The messages listed in this chapter do not include the hostname or the date/time stamp designation that displays only if the software is configured for system log messaging.

The chapter includes these message facilities:

- ACLMGR Messages, page 2-2
- CMP Messages, page 2-6
- DHCP_SNOOPING Messages, page 2-7
- DOT1X Messages, page 2-10
- DTP Messages, page 2-15
- EC Messages, page 2-17
- ETHCNTR Messages, page 2-21
- EXPRESS_SETUP Messages, page 2-21
- GBIC_SECURITY Messages, page 2-22
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- GBIC_SECURITY_UNIQUE Messages, page 2-24
- HARDWARE Messages, page 2-25
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- PM Messages, page 2-36
- PORT_SECURITY Messages, page 2-44
- QOSMGR Messages, page 2-45
- RMON Messages, page 2-50
- SPAN Messages, page 2-51
- SPANTREE Messages, page 2-51
- SPANTREE_FAST Messages, page 2-58
- SPANTREE_VLAN_SW Messages, page 2-59
- STORM_CONTROL Messages, page 2-59
- SUPERVISOR Messages, page 2-60
- SUPQ Messages, page 2-60
- SW_VLAN Messages, page 2-62
- SWITCH_QOS_TB Messages, page 2-68
- TCAMMGR Messages, page 2-68
- UDLD Messages, page 2-70
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ACLMGR Messages

This section contains the access control list (ACL) manager messages. Most messages in this section are the result of a switch memory shortage, which includes hardware memory and label space but not CPU memory. Both kinds of memory shortages are described.

Explanation This message means that the ACL manager was unable to allocate the data structures needed to describe a VLAN map in a form that can be loaded into hardware. This error is most likely caused by lack of free memory. [chars] is the VLAN map name.

Recommended Action Reduce other system activity to ease memory demands.

Error Message ACLMGR-2-NOVLB: Cannot create memory block for VLAN [dec].

Explanation This message means that the ACL manager was unable to save per-VLAN information needed for its correct operation. Some per-interface features, such as access groups or VLAN maps, will not be configured correctly. [dec] is the VLAN number.

Recommended Action Use a less complicated configuration that requires less memory.

Error Message ACLMGR-2-NOVMR: Cannot create VMR data structures for access list [chars].

Explanation This message means that the ACL manager was unable to allocate the value-mask result (VMR) data structures needed to describe an ACL in a form that can be loaded into hardware. This error is most likely caused by lack of available memory. [chars] is the access-list name.

Recommended Action Use a less complicated configuration that requires less memory.

Error Message ACLMGR-3-ACLTCAMFULL: Acl Tcam Full. Drop packets on Output Acl label [dec] on [chars].

Explanation This message means that there are too many ACLs configured for the platform-specific ACL TCAM table to support. [dec] is the label number, and [chars] represents Layer 2.

Recommended Action Reduce the number of IP or MAC access lists to be applied to interfaces.

Error Message ACLMGR-3-AUGMENTFAIL: Augmenting of access-map [chars] on [chars] label [dec] failed.

Explanation This message means that the system ran out of CPU DRAM when attempting to merge internally required elements with the configured access maps. The first [chars] is the access-map name, the second [chars] is the direction in which the map was applied (*input* or *output*), and [dec] is the label number.

Recommended Action Reduce other system activity to ease memory demands.

Error Message ACLMGR-3-IECPORTLABELERROR: ACL labels are out-of-sync on interface [chars], label [dec] is not available on asic [dec].

Explanation This message means that an internal software error has occurred. [chars] is the interface name. The first [dec] is the label associated with the ACL, and the second [dec] is the ASIC number.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message ACLMGR-3-INSERTFAIL: Insert of access-map [chars] #[dec] into [chars]
label [dec] failed.

Explanation This message means that the system ran out of CPU memory when trying to merge sections of an access map. The first [chars] is the map name, and the second [chars] is the direction in which the map was applied. The first [dec] is the entry number, and the second [dec] is the label number.

Recommended Action Reduce other system activity to ease memory demands. For example, remove any ACLs that have been defined but are not now used. Use simpler ACLs with fewer access control entries (ACEs). Use fewer VLANs, and remove any unneeded VLANs from the VLAN database.

Error Message ACLMGR-3-INTTABLE: Not in truth table: VLMAP [dec] RACL [dec] Mcb [dec] Feat [dec].

Explanation This message means that an unrecoverable software error occurred while trying to merge the configured input features. [dec] are internal action codes.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message ACLMGR-3-MAXRECURSION: Too many ([dec]) levels of recursion while merging ACLs (code [dec]).

Explanation This message means that the configuration is too complicated for the platform-specific ACL merge code to support. The most likely cause is too many separate access lists in a single VLAN map or policy map. The first [dec] is the number of levels of recursion. The second [dec] is an internal code number of the merge stage that encountered the problem.

Recommended Action Reduce the number of IP or MAC access lists (considered separately) in any one VLAN or policy map to fewer than the number of levels reported by this log message.

Error Message ACLMGR-3-MERGEFAIL: [chars] ACL merge error [dec] ([chars]) on [chars]
label [dec].

Explanation This message means that the ACL manager was unable to complete the merge of the configured features into a form suitable for loading into the hardware. Packets potentially affected by this feature will be sent to the CPU for processing instead. The most likely cause is specifying an ACL that is too large or too complex for the system. The first [chars] is the ACL-type error (*ip* or *mac*), the first [dec] is the error code, the second [chars] is the message string for the preceding error code, the second [dec] is the label number, and the third [chars] is either *input* or *output*.

Recommended Action Specify a smaller and less complicated configuration.

Error Message ACLMGR-3-NOLABEL: Cannot allocate [chars] label for interface [chars].

Explanation This message means that the ACL manager was unable to allocate a label for the features on this interface. This means that the hardware cannot be programmed to implement the features, and packets for this interface will be filtered in software. There is a limit of 256 labels per direction. The first [chars] is the direction (*input* or *output*); the second [chars] is the interface name.

Recommended Action Use a simpler configuration. Use the same ACLs on multiple interfaces, if possible.

Error Message ACLMGR-3-OUTTTABLE: Not in truth table: RACL [dec] VLMAP [dec].

Explanation This message means that an unrecoverable software error occurred while trying to merge the configured output features. [dec] are internal action codes.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message ACLMGR-3-QOSTTABLE: Not in truth table: ACL [dec] in map, action [dec].

Explanation This message means that a software error occurred while trying to merge a QoS policy map. The first [dec] is the ACL number, and the second [dec] is the action corresponding to the specified ACL number.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message ACLMGR-3-RELOADED: Reloading [chars] label [dec] feature.

Explanation This message means that the ACL manager is now able to load more of the configured features on this label into the hardware. One or more features had previously been unloaded because of lack of space. [chars] is the direction (*input* or *output*), and [dec] is the label number.

Recommended Action No action is required.

Error Message ACLMGR-3-UNKNOWNACTION: Unknown VMR access group action [hex].

Explanation This message means that an internal software error has occurred. [hex] is an internal action code.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message ACLMGR-3-UNLOADING: Unloading [chars] label [dec] feature.

Explanation This message means that the ACL manager was unable to fit the complete configuration into the hardware, so some features will be applied in software. This prevents some or all of the packets in a VLAN from being forwarded in hardware and requires them to be forwarded by the CPU. Multicast packets might be dropped entirely instead of being forwarded. [chars] is the direction (*input* or *output*), and [dec] is the label number.

Recommended Action Use a simpler configuration. Use the same ACLs on multiple interfaces, if possible.

CMP Messages

This section contains the Cluster Membership Protocol (CMP) messages.

Error Message CMP-4-MEM_CMPIP_ADDR_CONFLICT: Conflict with CMP IP address [IP_address], Reissuing a new CMP IP address to member [dec]

Explanation This message means that the cluster commander found a conflict with the assigned CMP IP address of the member. A new unique CMP IP address is assigned to the member. [dec] is the member number.

Recommended Action This is only a warning message. The commander has already assigned the cluster member a new unique address. Clear any open TCP connections on the member by using **clear tcp** privileged EXEC command.

Error Message CMP-5-ADD: The Device is added to the cluster (Cluster Name: [chars], CMDR IP Address [IP_address]).

Explanation This message means that the device is added to the cluster. [chars] is the cluster name, and [IP_address] is the Internet address of the command switch.

Recommended Action No action is required.

Error Message CMP-5-MEMBER_CONFIG_UPDATE: Received member configuration from member [dec].

Explanation This message means that the active or standby command switch received a member configuration. [dec] is the member number of the sender.

Recommended Action No action is required.

Error Message CMP-5-MGMT_VLAN_CHNG: The management vlan has been changed to [dec].

Explanation This message means that the management VLAN has changed. [dec] is the new management VLAN number.

Error Message CMP-5-NBR_UPD_SIZE_TOO_BIG: Number of neighbors in neighbor update is [int], maximum number of neighbors allowed in neighbor update is [int].

Explanation This message means that the number of cluster neighbors in the clustering neighbor update packet exceeds the number of neighbors supported by the clustering module. The first [int] is the new number of neighbors, and the second [int] the maximum number of neighbors.

Recommended Action No action is required.

Error Message CMP-5-REMOVE: The Device is removed from the cluster (Cluster Name: [chars]).

Explanation This message means that the device is removed from the cluster. [chars] is the cluster name

Recommended Action No action is required.

DHCP_SNOOPING Messages

This section contains the DHCP snooping messages.

Error Message DHCP_SNOOPING-3-DHCP_SNOOPING_INTERNAL_ERROR: DHCP Snooping internal error, [chars].

Explanation This message means that a software sanity check failed in the DHCP snooping process. [chars] is the error.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message DHCP_SNOOPING-4-AGENT_OPERATION_FAILED: DHCP snooping binding transfer failed. [chars].

Explanation This message means that the DHCP snooping binding transfer process failed because of the specified reason for failure. [chars] is the reason for failure.

Error Message DHCP_SNOOPING-4-AGENT_OPERATION_FAILED_N: DHCP snooping binding transfer failed ([dec]). [chars].

Explanation This message means that the DHCP snooping binding transfer process failed because of the specified reason for failure [dec] is the number of failures, and [chars] is the reason for the failure. This message is rate-limited.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-4-DHCP_SNOOPING_ERRDISABLE_WARNING: DHCP Snooping received [dec] DHCP packets on interface [chars].

Explanation This message means that the switch detected a DHCP packet rate-limit violation on the specified interface and put the interface in the error-disabled state. [dec] is the number of DCHP packets, and [chars] is the interface.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-4-DHCP_SNOOPING_PVLAN_WARNING: DHCP Snooping configuration may not take effect on secondary vlan [dec]. [chars]

Explanation This message means that if private VLANs are configured, the DHCP Snooping configuration on the primary VLAN automatically propagates to all the secondary VLANs. [dec] is the VLAN IDs of the secondary VLANs, and [chars] is the warning.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-4-IP_SOURCE_BINDING_NON_EXISTING_VLAN_WARNING: IP source binding is configured on non existing vlan [dec].

Explanation The message means that an IP source binding was configured on a VLAN that has not been configured yet. [dec] is the VLAN.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-4-IP_SOURCE_BINDING_PVLAN_WARNING: IP source filter may not take effect on secondary vlan [dec] where IP source binding is configured. [chars].

Explanation This message means that if private VLANs are configured, the IP-source-guard filter on the primary VLAN automatically propagates to all secondary VLANs. [dec] is the secondary VLAN, and [chars] is the warning.

Error Message DHCP_SNOOPING-4-NTP_NOT_RUNNING: NTP is not running; reloaded binding lease expiration times are incorrect.

Explanation This message means that if the DHCP snooping database agent loads the DHCP snooping bindings and NTP is not running, the calculated lease duration for the bindings is incorrect.

Recommended Action Configure NTP on the switch to provide an accurate time and date for the system clock. Then disable and re-enable DHCP snooping to clear the DHCP snooping binding database.

Error Message DHCP_SNOOPING-4-QUEUE_FULL: Fail to enqueue DHCP packet into processing queue: [chars], the queue is most likely full and the packet will be dropped.

Explanation This message means that the CPU is receiving DHCP packets a higher rate than the DHCP snooping process can handle. These DHCP packets are dropped to prevent a denial of service attack. [chars] is the warning.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-4-STANDBY_AGENT_OPERATION_FAILED: DHCP snooping binding transfer failed on the Standby Supervisor. [chars].

Explanation This message means that the DHCP snooping binding transfer process failed on a standby supervisor engine. [chars] is the standby supervisor engine.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-6-AGENT_OPERATION_SUCCEEDED: DHCP snooping database [chars] succeeded.

Explanation This message means that the DHCP binding transfer process succeeded. [chars] is the DCHP snooping database.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-6-BINDING_COLLISION: Binding collision. [dec] bindings ignored.

Explanation This message means that the specified number of bindings were ignored when the switch read the database file. The bindings from the database file have MAC address and VLAN information that a configured DHCP snooping binding already uses.

Error Message DHCP_SNOOPING-6-INTERFACE_NOT_VALID: Interface not valid. [dec] bindings ignored.

Explanation This message means that the specified number of bindings were ignored when the switch read the database file because the interface in binding database is not available, the interface is a routed port, or the interface is a DHCP snooping-trusted Layer 2 interface. [dec] is the number of bindings that the switch ignores.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-6-LEASE_EXPIRED: Lease Expired. [dec] bindings ignored.

Explanation This message means that the specified number of bindings were ignored when the switch read the database file because the DHCP lease expired. [dec] is the number of bindings.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-6-PARSE FAILURE: Parsing failed for [dec] bindings.

Explanation This message means that the specified number of bindings were ignored when the switch read the database file because the database read operation failed. [dec] is the number of bindings.

Recommended Action No action is required.

Error Message DHCP_SNOOPING-6-VLAN_NOT_SUPPORTED: Vlan not supported. [dec] bindings ignored.

Explanation This message means that the specified number of bindings were ignored when the switch read the database file because VLAN is no longer configured on the switch. [dec] is the number of bindings that the switch ignores.

Recommended Action No action required.

DOT1X Messages

This section contains the IEEE 802.1x messages.

Error Message $DOT1X-4-MEM_UNAVAIL$: Memory was not available to perform the 802.1X action.

Explanation This message means that the system memory is not sufficient to perform the IEEE 802.1x authentication.

Recommended Action Reduce other system activity to reduce memory demands.

Error Message DOT1X-4-MSG_ERR: Unknown message event received.

Explanation This message means that the IEEE 802.1x process received an unknown message event.

Recommended Action Restart the IEEE 802.1x process by entering the **dot1x system-auth-control** global configuration command. If this message recurs, reload the device.

Error Message DOT1X-4-PROC_START_ERR: Dot1x unable to start.

Explanation This message means that the system failed to create the IEEE 802.1x process.

Recommended Action Restart the IEEE 802.1x process by entering the **dot1x system-auth-control** global configuration command. If this message recurs, reload the device.

Error Message DOT1X-4-UNKN_ERR: An unknown operational error occurred.

Explanation This message means that the IEEE 802.1x process cannot operate because of an internal system error.

Recommended Action No action is required.

Explanation This message means that IEEE 802.1x could not be enabled on the channeling port. Trying to set IEEE 802.1x port-control to *auto* or *force-unauthorized* (force_unauth) mode on a channeling port, which is not allowed, caused this condition.

Recommended Action Disable channeling on the interface, and then enable IEEE 802.1x.

Error Message DOT1X-5-ERR_DYNAMIC: Dot1x can not be enabled on Dynamic ports.

Explanation This message means that IEEE 802.1x could not be enabled on the dynamic mode port. Trying to set IEEE 802.1x port-control to *auto* or *force-unauthorized* (force_unauth) mode on a dynamic mode port, which is not allowed, caused this condition.

Recommended Action Disable dynamic mode on the interface, and then enable IEEE 802.1x.

Error Message DOT1X-5-ERR_DYNAMIC_VLAN: Dot1x can not be enabled on dynamic VLAN ports.

Explanation This message means that IEEE 802.1x could not be enabled on the dynamic VLAN port. Trying to set IEEE 802.1x port-control to *auto* or *force-unauthorized* (force_unauth) mode on a dynamic VLAN port, which is not allowed, caused this condition.

Recommended Action Disable dynamic VLAN configuration on the interface, and then enable IEEE 802.1x.

Error Message DOT1X-5-ERR_INVALID_AAA_ATTR: Got invalid AAA attribute settings
[chars].

Explanation This message means that the authorization settings obtained are either unsupported or invalid. [chars] is the text received from the RADIUS server.

Recommended Action Change the settings to valid values.

Error Message DOT1X-5-ERR_INVALID_TUNNEL_MEDIUM_TYPE: Got an invalid value [chars]
for TUNNEL_MEDIUM_TYPE [chars].

Explanation This message means that the provided tunnel medium is either unsupported or invalid. [chars] is the text received from the RADIUS server.

Recommended Action Change the value to a valid tunnel medium.

Error Message DOT1X-5-ERR_INVALID_TUNNEL_TYPE: Got an invalid value of [chars] for TUNNEL_TYPE [chars].

Explanation This message means that the provided tunnel type is either unsupported or invalid. [chars] is the text received from the RADIUS server.

Recommended Action Change the value to a valid tunnel type.

Explanation This message means that IEEE 802.1x could not be enabled on a voice VLAN-configured port. Trying to set IEEE 802.1x port-control to *auto* or *force-unauthorized* (force_unauth) mode on a voice VLAN-configured port, which is not allowed, caused this condition.

Recommended Action Disable voice VLAN on the interface, and then enable IEEE 802.1x.

Error Message DOT1X-5-ERR_PER_USR_MAC_ACL: Applied per-user MAC ACL was unsuccessful on interface [chars].

Explanation This message means that IEEE 802.1x could not apply a per-user MAC ACL, possibly because of an invalid per-user base (or *pub*) ACL from the RADIUS server. [chars] is the interface.

Recommended Action Examine the RADIUS pub ACL, and configure a valid one.

Error Message DOT1X-5-ERR_RADIUSVLAN_EQ_VVLAN: RADIUS attempted to assign a VLAN to Dot1x port [chars] whose Voice VLAN is same as AccessVlan.

Explanation This message means that the RADIUS server attempted to assign a VLAN to a supplicant on a port with a voice VLAN that is equal to the access VLAN. [chars] is the port number.

Recommended Action Either update the RADIUS configuration to not assign the VLAN equal to the voice VLAN, or change the voice VLAN on this port.

Error Message DOT1X-5-ERR_RSPAN_VLAN: Dot1x can not be enabled on ports configured in Remote SPAN vlan.

Explanation This message means that IEEE 802.1x could not be enabled on the remote SPAN VLAN port. Trying to set IEEE 802.1x port-control to *auto* or *force-unauthorized* (force_unauth) mode on a port that is in a remote SPAN VLAN, which is not allowed, caused this condition.

Recommended Action Disable remote SPAN on the VLAN, and then enable IEEE 802.1x.

Error Message DOT1X-5-ERR_SPANDST: Dot1x can not be enabled on [chars]. It is configured as a SPAN Dest port.

Explanation This message means that IEEE 802.1x cannot be enabled on a port that is a SPAN destination port because these features are mutually exclusive. [chars] is the port.

Recommended Action Remove the SPAN destination port from the SPAN session before reconfiguring IEEE 802.1x on the port.

Error Message DOT1X-5-ERR_TRUNK: Dot1x can not be enabled on Trunk port.

Explanation This message means that IEEE 802.1x could not be enabled on the trunk port. Trying to set IEEE 802.1x port control to *auto* or *force-unauthorized* (force_unauth) mode on a trunk port, which is not allowed, caused this condition.

Recommended Action Disable trunking on the interface, and then enable IEEE 802.1x.

Error Message DOT1X-5-ERR_VLAN_INTERNAL: The VLAN [dec] is being used internally and cannot be assigned for use on the Dot1x port [chars] Vlan.

Explanation This message means that the VLAN is used internally and cannot be assigned again for use on this port. [dec] is the VLAN ID. [chars] is the port number.

Recommended Action Update the configuration to not use this VLAN.

Error Message DOT1X-5-ERR_VLAN_INVALID: The VLAN [dec] is invalid and cannot be assigned for use on the 802.1X port [chars] Vlan.

Explanation This message means that the specified VLAN is out of range and cannot be assigned for use on this port. [dec] is the VLAN ID. [chars] is the port number.

Recommended Action Update the configuration to use a valid VLAN.

Error Message DOT1X-5-ERR_VLAN_NOT_ASSIGNABLE: RADIUS tried to assign a VLAN to dot1x port [chars] whose VLAN cannot be assigned.

Explanation This message means that the RADIUS server tried to assign a VLAN to a supplicant on a port whose VLAN cannot be changed. [chars] is the port number.

Recommended Action Change the specified port to a Layer 2 port by using the **switchport** interface configuration command.

Error Message DOT1X-5-ERR_VLAN_NOT_FOUND: Attempt to assign non-existent [chars] VLAN [chars] to dot1x port [chars].

Explanation This message means that an attempt to assign a VLAN to a supplicant on a port fails because the VLAN was not found in the VTP database. [chars] is the port number.

Recommended Action Make sure that the VLAN exists, or use another VLAN.

Error Message DOT1X-5-ERR_VLAN_RESERVED: The VLAN [dec] is a reserved vlan and cannot be assigned for use on the Dot1x port [chars] Vlan.

Explanation This message means that the VLAN specified is a reserved VLAN and cannot be assigned for use on this port. [dec] is the VLAN ID. [chars] is the port number.

Recommended Action Update the configuration to not use this VLAN.

Error Message DOT1X-5-ERR_VLAN_RSPAN_CONFIGURED: VLAN [dec] is configured as a Remote SPAN VLAN, which has Dot1x enabled interface(s) configured. Please disable Dot1x on all ports in this VLAN or do not enable RSPAN on this VLAN.

Explanation This message means that remote SPAN should not be enabled on a VLAN in which ports are configured with IEEE 802.1x enabled. [dec] is the VLAN ID.

Recommended Action Either disable the remote SPAN configuration on the VLAN, or disable IEEE 802.1x on all the ports in this VLAN.

Error Message DOT1X-5-ERR_VVID_NOT_SUPPORTED: Dot1x can not be enabled on this port with Voice VLAN configured.

Explanation This message means that IEEE 802.1x and voice VLAN cannot be configured on the same port.

Explanation Remove the voice VLAN configuration on the port and retry the IEEE 802.1x authentication process.

Error Message DOT1X-5-INVALID_INPUT: Dot1x Interface parameter is Invalid on interface [chars].

Explanation This message means that the IEEE 802.1x interface parameter is out of the specified range or is invalid. [chars] is the interface.

Recommended Action See the CLI help by entering a ? after the command to see the valid range.

Error Message DOT1X-5-INVALID_MAC: Invalid MAC address (zero, broadcast or multicast mac address [chars] is trying to authenticate).

Explanation This message means that authentication was attempted for a zero, broadcast, or multicast MAC address using IEEE 802.1x authentication is allowed only for a valid nonzero, nonbroadcast, or nonmulticast source MAC address.

Recommended Action Connect a IEEE 802.1x-supported host to the IEEE 802.1x-enabled port.

Error Message DOT1X-5-NOT_DOT1X_CAPABLE: Dot1x disabled on interface [chars] because it is not an Ethernet interface.

Explanation This message means that you can enable IEEE 802.1x authentication only on Ethernet interfaces. [chars] is the interface.

Recommended Action Enable IEEE 802.1x authentication only on Ethernet interfaces.

Error Message DOT1X-5-SECURITY_VIOLATION: Security violation on interface [chars], New MAC address [enet] is seen on the interface in [chars] mode.

Explanation This message means that the port on the specified interface is configured in single-host mode. Any new host that the interface detects is perceived as a security violation. The port has been disabled. The first [chars] is the interface. [enet] is the MAC address. The second [chars] is the mode.

Recommended Action Verify that the port is configured to use only one host. Enter the **shutdown** interface configuration command and then the **no shutdown** interface configuration command to restart the port.

DTP Messages

This section contains the Dynamic Trunking Protocol (DTP) messages.

Error Message DTP-4-MEM_UNAVAIL: Memory was not available to perform the trunk negotiation action.

Explanation This message means that the system is unable to negotiate trunks because of a lack of memory.

Recommended Action Reduce other system activity to ease memory demands.

Error Message DTP-4-TMRERR: An internal timer error occurred when trunking on interface [chars].

Explanation This message means that a timer used by the trunking protocol unexpectedly expired. [chars] is the trunked interface.

Recommended Action This problem is corrected internally and has no long-term ramifications. However, if more problems with trunking occur, reload the switch by using the **reload** privileged EXEC command.

Error Message DTP-4-UNKN_ERR: An unknown operational error occurred.

Explanation This message means that the system is unable to negotiate trunks because an internal operation generated an unexpected error.

Recommended Action Reload the switch by using the reload privileged EXEC command.

Error Message DTP-5-DOMAINMISMATCH: Unable to perform trunk negotiation on port [chars] because of VTP domain mismatch.

Recommended Action This message means that the two ports in the trunk negotiation belong to different VTP domains. Trunking can be configured only when the ports belong to the same VTP domain. [chars] is the port number.

Recommended Action Ensure that the ports in the trunk negotiation belong to the same VTP domain.

Error Message DTP-5-ILGLCFG: Illegal config (on, isl--on,dot1g) on [chars].

Explanation This message means that one end of the trunk link is configured as *on* with ISL encapsulation and that the other end is configured as *on* with IEEE 802.1Q encapsulation. [chars] is the interface.

Recommended Action This configuration is illegal and will not establish a trunk between two switches. You must change the encapsulation type so that both ends of the trunk match.

Error Message DTP-5-NONTRUNKPORTON: Port [chars] has become non-trunk.

Explanation This message means that the interface changed from a trunk port to an access port. [chars] is the interface that changed.

Recommended Action This message is provided for information only.

Error Message DTP-5-TRUNKPORTCHG: Port [chars] has changed from [chars] trunk to [chars] trunk.

Explanation This message means that the encapsulation type of the trunk port has changed. The first [chars] is the interface, the second is the original encapsulation type, and the third [chars] is the new encapsulation type.

Recommended Action This message is provided for information only.

Error Message DTP-5-TRUNKPORTON: Port [chars] has become [chars] trunk.

Explanation This message means that the interface has changed from an access port to a trunk port. The first [chars] is the interface, and the second [chars] is the encapsulation type.

Recommended Action This message is provided for information only.

EC Messages

This section contains the EtherChannel, Link Aggregation Control Protocol (LACP), and Port Aggregation Protocol (PAgP) messages.

Error Message EC-4-NOMEM: Not enough memory available for [chars].

Explanation This message means that either the LACP or the PAgP EtherChannel could not obtain the memory it needed to initialize the required data structures. [chars] is the data structure name.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show**tech-support user EXEC command to gather data that might help identify the nature of the error.

Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message EC-5-BUNDLE: Interface [chars] joined port-channel [chars].

Explanation This message means that the listed interface joined the specified EtherChannel. The first [chars] is the physical interface, and the second [chars] is the EtherChannel interface.

Recommended Action No action is required.

Error Message EC-5-CANNOT_ALLOCATE_AGGREGATOR: Aggregator limit reached, cannot allocate aggregator for group [dec].

Explanation This message means that a new aggregator cannot be allocated in the group. [dec] is the affected group.

Recommended Action Change the port attributes of the ports in the group so that they match and join the same aggregator.

Error Message EC-5-CANNOT_BUNDLE1: Port-channel [chars] is down, port [chars] will
remain stand-alone.

Explanation This message means that the state of the port channel (EtherChannel) is down, for example, the port channel might be administratively disabled or disconnected. The physical interface cannot join the bundle (EtherChannel) until the state of the port channel is up. The first [chars] is the EtherChannel. The second [chars] is the port number.

Recommended Action Ensure that the other ports in the bundle have the same configuration.

Error Message EC-5-CANNOT_BUNDLE2: [chars] is not compatible with [chars] and will be suspended ([chars]).

Explanation This message means that the interface has different interface attributes than other ports in the EtherChannel. For the interface to join the bundle (EtherChannel), change the interface attributes to match the EtherChannel attributes. The first [chars] is the interface to be bundled, the second [chars] is the physical interface (a switch port) that is already in the bundle, and the third [chars] is the reason for the incompatibility.

Recommended Action Change the interface attributes to match the EtherChannel attributes.

Error Message EC-5-CANNOT_BUNDLE_LACP: [chars] is not compatible with aggregators in channel [dec] and cannot attach to them ([chars]).

Explanation This message means that the port has different port attributes than the port channel or ports within the port channel. For the port to join the bundle, change the port attributes so that they match the port. [chars] is the incompatible port. [chars] is the short interface name, such as Gi0/1, [dec] is the channel group number, and the last [chars] is the reason.

Recommended Action Match the port attributes to the port channel.

Error Message EC-5-COMPATIBLE: [chars] is compatible with port-channel members.

Explanation This message means that a port was not operational because its attributes were different from those of the port channel or ports within the port channel. The system has detected that the attributes of the port now match the port-channel attributes. [chars] is the affected port.

Recommended Action No action is required.

Error Message EC-5-DONTBNDL: [chars] suspended: incompatible partner port with [chars].

Explanation The configuration of the partner port differs from the configuration of other ports in the bundle. A port can only join the bundle when its global configuration and the configuration of the partner port are the same as other ports in the bundle. The first [chars] is the local interface that is being suspended, and the second [chars] is the local interface that is already bundled.

Recommended Action Verify that the configuration of the partner ports is the same for all ports in the bundle.

Error Message EC-5-ERRPROT: Channel protocol mismatch for interface [chars] in group [dec]: the interface can not be added to the channel group.

Explanation This message means that the interface cannot be added to the channel group with the specified mode. [chars] is the interface, and [dec] is the channel group.

Recommended Action Change the channel group or the mode for the interface.

Error Message EC-5-ERRPROT2: Command rejected: the interface [chars] is already part of a channel with a different type of protocol enabled.

Explanation This message means that the interface cannot be selected for the specified protocol because it is already part of a channel with a different type of protocol enabled. [chars] is the interface.

Recommended Action Remove the interface from the channel group.

Error Message EC-5-ERRPROT3: Command rejected: the interface [chars] is already part of a channel.

Explanation This message means that the interface cannot be unselected for the specified protocol because it is already part of a channel group. [chars] is the interface.

Recommended Action Remove the interface from the channel group.

Error Message EC-5-NOLACP: Invalid EC mode, LACP not enabled.

Explanation This message means that the EtherChannel mode cannot be set because LACP is not included in the software image.

Recommended Action Install a software image that includes LACP, and set the EC mode to on.

Error Message EC-5-NOPAGP: Invalid EC mode, PAgP not enabled.

Explanation This message means that PAgP is not included in the Cisco IOS image and that the EtherChannel mode cannot be set to **desirable** or **auto**.

Recommended Action Obtain an image with PAgP included, or set the mode to *on* by using the **channel-group** *channel-group-number* **mode on** interface configuration command.

Error Message EC-5-PORTDOWN: Shutting down [chars] as its port-channel is admin-down.

Explanation This message means that the administrative state of the port is controlled by the administrative state of its aggregate port. If the administrative state of the aggregate port is down, the administrative state of the port is also forced to be down. [chars] is the physical interface.

Recommended Action Enter the **no shutdown** interface configuration command on the aggregate port to activate the aggregation port.

Error Message EC-5-STAYDOWN: [chars] will remain down as its port-channel [chars] is admin-down.

Explanation This message means that the administrative state of the aggregation port overrides that of the affected port. If the aggregation port is administratively down, all ports in the aggregation port are forced to be administratively down. The first [chars] is the physical interface, and the second [chars] is the EtherChannel.

Recommended Action Enter the **no shutdown** interface configuration command on the aggregation port to activate (unshut) the aggregation port.

Error Message EC-5-STAYDOWN: no-shut not allowed on [chars]. Module [dec] not online.

Explanation This message means that an interface with an EtherChannel configuration cannot be enabled by using the **no shutdown** interface configuration command because it is a member of an EtherChannel group and that EtherChannel group has been administratively shut down. The interface has an EtherChannel configuration, but no information is available yet about its port channel. [chars] is the interface, and [dec] is the module.

Recommended Action No action is required. Wait until the module is online to find out the port-channel setting of the EtherChannel.

Error Message EC-5-UNBUNDLE: Interface [chars] left the port-channel [chars].

Explanation This message means that the listed interface left the specified EtherChannel. The first [chars] is the physical interface, which can be a switch port, and the second [chars] is the EtherChannel.

Recommended Action No action is required.

Error Message EC-5-UNSUITABLE: [chars] will not join any port-channel, [chars].

Explanation This message means that one of the interfaces cannot join the EtherChannel because it is configured for PortFast, as a VLAN Membership Policy Server (VMPS), for IEEE 802.1x, as a voice VLAN, or as a Switched Port Analyzer (SPAN) destination port. All of these are unsuitable configurations for EtherChannels. The first [chars] is the interface name, and the second [chars] describes the details of the unsuitable configuration.

Recommended Action Reconfigure the port; remove the unsuitable configuration.

ETHCNTR Messages

This section contains the Ethernet controller messages. These messages are a result of a failure of the switch software when trying to program the hardware and lead to incorrect switch behavior.

Error Message ETHCNTR-3-HALF_DUX_COLLISION_EXCEED_THRESHOLD: Collision at [chars] exceed threshold. Consider as loop-back.

Explanation This message means that the collisions at a half-duplex port exceeded the threshold, and the port is considered as a loopback. [chars] is the port where the threshold was exceeded.

Recommended Action No action is required. The port goes into error-disabled mode until the problem is resolved.

Error Message ETHCNTR-3-LOOP_BACK_DETECTED: Loop-back detected on [chars].

Explanation This message means that a loopback condition might be the result of a balun cable incorrectly connected to a port. [chars] is the interface name.

Recommended Action heck the cables. If a balun cable is connected and the loopback condition is desired, no action is required. Otherwise, connect the correct cable, and then enable the port.

Error Message ETHCNTR-3-NO_HARDWARE_RESOURCES: Not enough hardware resources. Shutting down [chars].

Explanation This message means that there are too many VLANs configured. [chars] is the short interface name, such as Gi0/1, or the VLAN name, such as VLAN0002.

Recommended Action Reduce the total number of VLANs to less than 1023. To preserve configuration and connections across reboots, save the configuration.

EXPRESS_SETUP Messages

This section contains messages for the Express Setup feature.

Error Message EXPRESS_SETUP-3-UNABLE_TO_RESET_CONFIG: [chars].

Explanation This message means that the system is unable to reset the configuration. [chars] is a text string that explains why the reset failed. For example, error renaming config file, error removing config file, or error removing private config file.

Error Message EXPRESS_SETUP-6-CONFIG_IS_RESET: [chars].

Explanation This message means that the configuration is reset. [chars] is a text message that clarifies the reset event, such as The configuration is reset and the system will now reboot.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message EXPRESS_SETUP-6-MODE_ENTERED.

Explanation This message means that the Express Setup mode is active.

Recommended Action No action is required.

Error Message EXPRESS_SETUP-6-MODE_EXITED.

Explanation This message means that the Express Setup mode is no longer active.

Recommended Action No action is required.

GBIC_SECURITY Messages

This section contains the Cisco Gigabit Interface Converter (GBIC) and small form-factor pluggable (SFP) module security messages. The GBIC and SFP modules have a serial EEPROM that contains the serial number, security code, and cyclic redundancy check (CRC). When the module is inserted into the switch, the software reads the EEPROM to recompute the security code and CRC. The software generates an error message if the CRC is invalid or if the recomputed security code does not match the one stored in the EEPROM.



The switch supports SFP modules and does not support GBIC modules. Although the error message text refers to GBIC interfaces and modules, the messages from the switch actually refer to the SFP module interfaces and modules.

Error Message GBIC_SECURITY-4-EEPROM_CRC_ERR: EEPROM checksum error for GBIC in [chars].

Explanation This message means that the GBIC in the specified port has invalid EEPROM data. [chars] is the port in which the GBIC is inserted.

Recommended Action Remove the GBIC from the port.

Error Message GBIC_SECURITY-4-EEPROM_READ_ERR: Error in reading GBIC serial ID in [chars].

Explanation This message means that an error occurred while the switch was reading the GBIC type from the EEPROM. [chars] is the port in which the GBIC is inserted.

Recommended Action Remove the GBIC from the port.

Error Message GBIC_SECURITY-4-EEPROM_SECURITY_ERR: GBIC in [chars] failed security check.

Explanation The GBIC in the specified port has invalid EEPROM data. [chars] is the port in which the GBIC is inserted.

Recommended Action Remove the GBIC from the port.

Error Message GBIC_SECURITY-4-GBIC_INTERR: Internal error occurred in setup for GBIC interface [chars].

Explanation This message means that the system could not allocate resources or had some other problem during the setup for the specified SFP module interface. [chars] is the interface in which the SFP module is installed.

Recommended Action Reload the switch by using the **reload** privileged EXEC command. If the problem persists, find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message" Traceback Reports" section on page 1-4.

GBIC_SECURITY_CRYPT Messages

This section contains the Cisco GBIC module and SFP module security messages. The switch recognizes the module as a Cisco module but identifies another problem with it.



The switch supports SFP modules and does not support GBIC modules. Although the error message text refers to GBIC interfaces and modules, the messages from the switch actually refer to the SFP module interfaces and modules.

Error Message GBIC_SECURITY_CRYPT-4-ID_MISMATCH: Identification check failed for GBIC interface [chars].

Explanation This message means that the SFP module was identified as a Cisco SFP module, but the system was unable to verify its identity. [chars] is the interface in which the module is installed.

Recommended Action Check the list of supported SFP modules for this version of the system software. An upgrade might be required for newer modules. Otherwise, verify that the module was obtained from Cisco or from a supported vendor.

Error Message GBIC_SECURITY_CRYPT-4-UNRECOGNIZED_VENDOR: GBIC interface [chars] manufactured by an unrecognized vendor.

Explanation This message means that the SFP module was identified as a Cisco SFP module, but the system was unable to match its manufacturer with one of the known list of Cisco SFP module vendors. [chars] is the interface in which the module is installed.

Recommended Action Check the list of supported SFP modules for this version of the system software. An upgrade might be required for newer modules.

Error Message GBIC_SECURITY_CRYPT-4-VN_DATA_CRC_ERROR: GBIC interface [chars] has bad crc.

Explanation This message means that the SFP module was identified as a Cisco SFP module, but it does not have a valid CRC in the EEPROM data. [chars] is the interface in which the module is installed.

Recommended Action Check the list of supported SFP modules for this version of the system software. An upgrade might be required for newer modules. Even if unrecognized, the module might operate but with limited functionality.

GBIC_SECURITY_UNIQUE Messages

This section contains the Cisco GBIC module and SFP module security messages that identify whether the module is unique.



The switch supports SFP modules and does not support GBIC modules. Although the error message text refers to GBIC interfaces and modules, the messages from the switch actually refer to the SFP module interfaces and modules.

Error Message GBIC_SECURITY_UNIQUE-3-DUPLICATE_GBIC: GBIC interface [dec]/[dec] is a duplicate of GBIC interface [dec]/[dec].

Explanation This message means that the SFP module was identified as a Cisco SFP module, but its vendor ID and serial number match that of another interface on the system. The first [dec]/[dec] is the interface of the duplicate SPF module, and the second [dec]/[dec] is the interface of the existing module.

Recommended Action Cisco SFP modules are assigned unique serial numbers. Verify that the module was obtained from Cisco or from a supported vendor.

Error Message GBIC_SECURITY_UNIQUE-4-DUPLICATE_SN: GBIC interface [dec]/[dec] has the same serial number as another GBIC interface.

Explanation This message means that the SFP module was identified as a Cisco SFP module, but its serial number matches that of another interface on the system. [dec]/[dec] is the interface in which the duplicate module is installed.

Recommended Action Cisco SFP modules are assigned unique serial numbers. Verify that the module was obtained from Cisco or from a supported vendor.

HARDWARE Messages

This section contains hardware messages.

Error Message HARDWARE-3-ASICNUM_ERROR: Port-ASIC number [dec] is invalid.

Explanation This message means that the port ASIC number used is invalid. Each port ASIC is identified by an ID. [dec] is the ASIC number.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message HARDWARE-3-INDEX_ERROR: Index value [dec] is invalid.

Explanation This message means that the index into the hardware table is out-of-range. [dec] is the index value.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message HARDWARE-3-INTRNUM_ERROR: Port-ASIC Interrupt number [dec] is invalid.

Explanation This message means that the interrupt ID used in a port ASIC is invalid. [dec] is the interrupt number.

Error Message HARDWARE-3-PORTNUM ERROR: port number [dec] is invalid.

Explanation This message means that the port number used is invalid (out of range). Each interface in a given port ASIC is identified by an index value. [dec] is the port number.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message HARDWARE-3-STATS_ERROR: Statistics ID [dec] is invalid.

Explanation This message means that the statistics ID used is out of range. The statistics supported by the port ASIC are identified by an ID. [dec] is the statistics ID.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Recommended Action

HLFM Messages

This section contains messages from the local forwarding manager.

Error Message HLFM-3-MACFREE_ERROR: MAC address [enet], vlan [dec] is still
referenced; cannot free.

Explanation This message means that an attempt was made to free a MAC address before releasing all references to it. [enet] is the MAC address, and [dec] is the VLAN ID.

Error Message HLFM-3-MAP_ERROR: IP address [IP_address] not in mac tables,
mac-address [enet], vlan [dec].

Explanation This message means that the IP address and MAC address tables are out of sync. [IP_address] is the IP address, [enet] is the MAC address, and [dec] is the VLAN ID.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message HLFM-3-MOD_SD: Failed to modify Station Descriptor with index [dec],
vlan [dec], di [dec], error [dec], mad [dec], ref-count [dec].

Explanation This message means that the forwarding manager attempted to modify a station descriptor that is no longer in use or is invalid. The first [dec] is the station index, the second [dec] is the VLAN ID, the third [dec] is the destination index, the fourth [dec] is the error code, the fifth [dec] is the MAC address descriptor, and the sixth [dec] is the ref-count for this MAC address descriptor.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

IDBMAN Messages

This section contains the interface description block manager (IDBMAN) messages.

Error Message IDBMAN-3-AGGPORTMISMATCH: [chars]: [chars]([dec] / [dec]) does not match internal slot/port state [chars]([dec] / [dec]).

Explanation This message means that there is an internal error that caused an invalid aggregate port to be used by the software. The first [chars] is the name of the function where the error occurred. The second and third [chars] are the port-channel names, and the ([dec] / [dec]) are the slot and port numbers (slot/port).

Error Message IDBMAN-3-DELETEDAGGPORT: [chars]([dec] / [dec]) Group [dec] has been deleted, but is being reused.

Explanation This message means that there is an internal error that caused an interface that has been deleted to be reused for a new aggregate port. [chars] is the port-channel name, and the ([dec] / [dec]) are the slot and port numbers (slot/port). The last [dec] is the channel-group number.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message IDBMAN-3-INVALIDAGGPORTBANDWIDTH: [chars]([dec] / [dec]) has an invalid bandwidth value of [dec].

Explanation This message means that there is an internal error that caused an invalid bandwidth to be used for an aggregate port. [chars] is the port-channel name. The ([dec] / [dec]) are the slot and port numbers (slot/port). The last [dec] is the bandwidth.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message IDBMAN-3-INVALIDPORT: [chars]: trying to use invalid port number [dec]
(Max [dec]).

Explanation This message means that there is an internal error that caused an invalid port number to be used by the software. [chars] is the interface name. The first [dec] is the port number that is invalid, and the second [dec] is the maximum allowed value for a port number.

Error Message IDBMAN-3-INVALIDVLAN: [chars]: trying to use invalid Vlan [dec].

Explanation This message means that there is an internal error that caused an invalid VLAN to be used by the software. [chars] is the interface name, and [dec] is the VLAN number that is invalid.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message IDBMAN-3-NOTANAGGPORT: [chars]([dec]/[dec]) is not an aggregate port.

Explanation This message means that there is an internal error that caused an interface that is not an aggregate port to be used for aggregate port operations. [chars] is the interface name, and ([dec] / [dec]) are the slot and port number (slot/port).

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message IDBMAN-3-PORTNOTINAGGPORT: [chars]([dec] / [dec]) is not present in Aggport [chars [([dec] / [dec]).

Explanation This message means that an internal error has been detected. A port that was supposed to be in an aggregate port was found not to be. The first [chars] is the interface name, and the second [chars] is the port-channel name. The ([dec] / [dec]) are the slot and port numbers (slot/port).

Error Message IDBMAN-3-VLANNOTSET: [chars]: Vlan [dec] not set since it already has Vlan [dec].

Explanation This message means that there is an internal error that caused an interface to not have its VLAN set to the requested value. [chars] is the interface name. The first [dec] is the new VLAN number, and the second [dec] is the currently assigned VLAN number.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message IDBMAN-4-ACTIVEPORTSINAGGPORT: [chars]([dec] / [dec]) has [dec]
active ports, but is being removed.

Explanation This message means that there is an internal error that caused an aggregate port with active ports to be removed. [chars] is the port-channel name, and the ([dec] / [dec]) are the slot and port number (slot/port). The last [dec] is the number of currently active ports.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

IGMP_QUERIER Messages

This section contains the IGMP querier messages.

Error Message IGMP_QUERIER-4-NO_IP_ADDR_CFG: The IGMP querier cannot send out General Query messages in VLAN [dec] because there is no IP address configured on the system.

Explanation This message means that you must specify an IP address for the IGMP querier at either the global or per-VLAN level. [dec] is the VLAN number.

Recommended Action Configure a source IP address for the IGMP querier.

Error Message IGMP_QUERIER-4-SNOOPING_DISABLED: The IGMP querier is operationally disabled in VLAN [dec] because IGMP snooping has been disabled in this VLAN.

Explanation This message means that IGMP snooping was detected in a disabled state on this VLAN. The IGMP querier function should not be operationally enabled when IGMP snooping is disabled. [dec] is the VLAN numbers.

Recommended Action Confirm that IGMP snooping is enabled both globally and on the VLAN.

Error Message IGMP_QUERIER-6-PIM_DISABLED: The IGMP querier is now operationally enabled in VLAN [dec] because PIM is no longer enabled on the SVI.

Explanation This message means that Protocol-Independent Multicast (PIM) is disabled on the switch virtual interface (SVI), and the IGMP querier function is now enabled. [dec] is the VLAN number.

Recommended Action No action is required.

Error Message IGMP_QUERIER-6-SNOOPING_ENABLED: The IGMP querier is now operationally enabled in VLAN [dec] because IGMP snooping is no longer disabled.

Explanation This message means that IGMP snooping was enabled. As a result, the IGMP querier function is now enabled. [dec] is the VLAN number.

Recommended Action No action is required.

ILET Messages

This section contains the Cisco IOS License Enforcement Test (ILET) messages:

Error Message ILET-1-AUTHENTICATION_FAIL: ILET Platform Authentication Failure The software has detected that this switch may not be a genuine Cisco product and that software loaded on the switch may have been copied in violation of Cisco's end user license agreement. Cisco licensing, warranties and support programs only apply to genuine Cisco products. Cisco may deny operation of this product, or support under your warranty or under a Cisco support program such as SmartNet. If you receive this message, please contact your Cisco Sales Representative for assistance.

Explanation This message means that an ILET authentication failure occurred.

Recommended Action Contact your Cisco sales representative for assistance.

MAC_LIMIT Messages

This section contains the MAC LIMIT messages, which describe the entries in the MAC address table.

Error Message MAC_LIMIT-4-DROP: Vlan [dec] with Configured limit = [dec] has currently [dec] Entries.

Explanation This message means that the number of MAC address table entries for a VLAN is less than or equal to the maximum number allowed. The first [dec] is the VLAN ID, the second [dec] is the maximum number of MAC address entries, and the third [dec] is the number of entries in the MAC address table.

Recommended Action Your network administrator configures this action.

Error Message MAC_LIMIT-4-ENFORCE: Enforcing limit on Vlan [dec] with Configured limit = [dec].

Explanation This message means that the number of MAC address entries for the VLAN exceeds the maximum number allowed and that the configured action is to limit the number of entries to the maximum allowed. The first [dec] is the VLAN ID, and the second [dec] is the maximum number of MAC address entries.

Recommended Action Your network administrator configures this action.

Error Message MAC_LIMIT-4-EXCEED: Vlan [dec] with Configured limit = [dec] has currently [dec] Entries.

Explanation This message means that the number of MAC address entries for a VLAN exceeds the maximum number allowed. The first [dec] is the VLAN ID, the second [dec] is the maximum number of MAC address entries, and the third [dec] is the number of entries in the MAC address table.

Recommended Action Your network administrator configures this action.

MAC_MOVE Messages

This section contains the MAC_MOVE messages.

Error Message MAC_MOVE-4-NOTIF: Host [enet] in vlan [dec] is flapping between port [chars] and port [chars].

Explanation This message means that the host is moving between the specified ports. [enet] is the Ethernet address of the host, [dec] is the VLAN ID, the first [chars] is the first port, and the second [chars] is the second port.

Recommended Action Check your network for loops.

PHY Messages

This section contains the PHY messages.

Error Message PHY-4-BADTRANSCEIVER: An inappropriate transceiver has been inserted in interface [chars].

Explanation This message means that a transceiver that should not be used is in the specified interface.

Recommended Action Remove the transceiver. If the transceiver is a Cisco device, contact your Cisco technical support representative.

Error Message PHY-4-CHECK_SUM_FAILED: SFP EEPROM data check sum failed for SFP interface [chars].

Explanation This message means that the SFP module was identified as a Cisco SFP module, but the system cannot read the vendor data information to verify whether it is correct. [chars] is the interface in which the SFP module is installed.

Recommended Action Remove and then reinsert the SFP module. If it fails again with the same error message, the SFP module might be defective.

Error Message PHY-4-EXCESSIVE_ERRORS: Excessive FCS, data, or idle word errors found on interface [chars].

Explanation This message means that the system detected excessive frame check sequence (FCS), data word, or idle word errors on the specified interface. [chars] is the interface.

Recommended Action Enter the **show interface** privileged EXEC command on the specified interface, and check for cyclic redundancy check (CRC) and other input errors. If errors are excessive, enter the **shutdown** interface configuration command and then the **no shutdown** interface configuration command to reset the interface.

Error Message PHY-4-MODULE_DUP: SFPs in [chars] and in [chars] have duplicate vendor-id and serial numbers.

Explanation The SFP module was identified as a Cisco SFP module, but its vendor ID and serial number match that of another SFP module in the system. The first [chars] is the interface in which the SFP module is installed, the second [chars] is the interface where the duplicate SFP module is installed.

Recommended Action yay the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PHY-4-SFP_NOT_SUPPORTED: The SFP in [chars] is not supported

Explanation This message means that this small form-factor pluggable (SFP) module type is not supported on this switch. [chars] is the interface.

Error Message PHY-4-UNSUPPORTED_TRANSCEIVER:Unsupported transceiver found in [chars]

Explanation The SFP module was identified as a unsupported, non-Cisco SFP module. [chars] is the unsupported module.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-5.

PLATFORM Messages

This section contains low-level platform-specific messages.

Error Message PLATFORM-1-CRASHED: [chars].

Explanation This message means that the system is attempting to display the failure message from the previous failure. [chars] is the description of the error message.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

PLATFORM_PM Messages

This section contains platform port manager (PM) messages.

Error Message PLATFORM_PM-3-IFCOUNTERROR: Unit number [dec] of interface [chars] is more than max allowed value of [dec].

Explanation This message means that there are too many interfaces configured for the interface type. [dec] is the interface count, [chars] is the interface, and [dec] is the maximum number of interfaces.

PLATFORM_VLAN Messages

Error Message PLATFORM_PM-3-INTVLANINUSE: internal vlan-id [dec] allocated for interface [chars] is still in use.

Explanation This message means that an internal VLAN ID allocated for an interface is still in use. [dec] is the VLAN ID, and [chars] is the interface.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PLATFORM_PM-3-NOINTVLAN: internal vlan of interface [chars] is not active for vlan-id [dec].

Explanation This message means that internal vlan_data is not active for the given VLAN ID. [chars] is the interface, and [dec] is the VLAN ID.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

PLATFORM_VLAN Messages

This section contains platform VLAN messages.

Error Message PLATFORM_VLAN-3-LOCK_FAIL: Failed to lock vlan-id [dec], associated mapped vlan id value [dec].

Explanation This message means that the VLAN lock operation failed. This can occur if the VLAN is already active in the system or if the VLAN ID is not active. The first [dec] is the VLAN ID, and the second [dec] is the mapped-vlan-id (MVID).

Error Message PLATFORM_VLAN-3-MVID_ERROR: Mapped Vlan ID value [dec] associated with vlan-id [dec] is invalid.

Explanation This message means that an active VLAN is not correctly associated with a mapped-vlan-id (MVID). The first [dec] is the VLAN ID, and the second [dec] is the MVID.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PLATFORM_VLAN-3-UNLOCK_FAIL: Failed to unlock vlan-id [dec], associated mapped vlan id value [dec].

Explanation This message means that the switch failed to unlock a VLAN ID. The most likely cause is that the VLAN is already unlocked. The first [dec] is the VLAN ID, and the second [dec] is the MVID.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

PM Messages

This section contains the port manager messages. The port manager is a state machine that controls all the logical and physical interfaces. All features, such as VLANs, UDLD, and so forth, work with the port manager to provide switch functions.

Error Message PM-2-LOW_SP_MEM: Switch process available memory is less than [dec] bytes.

Explanation This message means that the available memory for the switch processor is low. This can occur when too many Layer 2 VLANs are configured. [dec] is the available memory.

Recommended Action Remove features from the system to reduce memory usage.

Error Message PM-2-NOMEM: Not enough memory available for [chars].

Explanation This message means that the port manager subsystem could not obtain the memory it needed to initialize the specified operation. [chars] is the port manager operation.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-2-VLAN_ADD: Failed to add VLAN [dec] - [chars].

Explanation This message means that the software failed to add the VLAN to the VLAN Trunking Protocol (VTP) database. [dec] is the VLAN ID, and [chars] specifies the reason for the failure.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-3-INTERNALERROR: Port Manager Internal Software Error ([chars]: [chars]: [dec]: [chars]).

Explanation This message means that an internal software error occurred in the port manager. The parameters identify the problem for technical support. The first [chars] is the error message, and the second [chars] is the filename. [dec] is the line number, and the last [chars] is the function name.

Error Message PM-4-BAD_APP_ID: an invalid application id ([dec]) was detected.

Explanation This message means that the port manager detected an invalid request. [dec] is the application ID.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_APP_REQ: an invalid [chars] request by the '[chars]' application was detected.

Explanation This message means that the port manager detected an invalid request. The first [chars] is the invalid request, and the second [chars] is the application making the request.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_CARD_COOKIE: an invalid card cookie was detected.

Explanation This message means that the port manager detected an invalid request.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_CARD_SLOT: an invalid card slot ([dec]) was detected.

Explanation This message means that the port manager detected an invalid request. [dec] is the slot number.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show**tech-support user EXEC command to gather data that might help identify the nature of the error.
Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_COOKIE: [chars] was detected.

Explanation This message means that the port manager detected an invalid request. [chars] is the invalid request.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_HA_ENTRY_EVENT: Invalid Host access entry event ([dec]) is received.

Explanation This message means that an invalid host access entry event was received; the host access table entry event should be an add, delete, or update event. [dec] is the event that is received.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_PORT_COOKIE: an invalid port cookie was detected.

Explanation This message means that the port manager detected an invalid request.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_PORT_NUMBER: an invalid port number ([dec]) was detected.

Explanation This message means that the port manager detected an invalid request. [dec] is the port number.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_VLAN_COOKIE: an invalid vlan cookie was detected.

Explanation This message means that the port manager detected an invalid request.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-BAD_VLAN_ID: an invalid vlan id ([dec]) was detected.

Explanation This message means that the port manager detected an invalid request. [dec] is the VLAN ID.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-ERR_DISABLE: [chars] error detected on [chars], putting [chars] in err-disable state.

Explanation This message means that the port manager detected a misconfiguration or misbehavior and placed the interface in an error-disabled state. A recovery is attempted after the configured retry time (the default is 5 minutes). [chars] is the port where the threshold was exceeded. The first [chars] is the error, and the second and third [chars] are the affected interfaces.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems.

Error Message PM-4-ERR_RECOVER: Attempting to recover from [chars] err-disable state on [chars].

Explanation This message means that the port manager is attempting to bring the interface up after taking it down to the error-disabled state. The first [chars] is the error, and the second [chars] is the affected interface.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-EXT_VLAN_INUSE: VLAN [dec] currently in use by [chars].

Explanation This message means that the port manager failed to allocate the VLAN for external use because the VLAN is being used by another feature. [dec] is the VLAN that is being used, and [chars] is the feature that is using it.

Recommended Action Reconfigure the feature to use another internal VLAN or to request another available VLAN.

Error Message PM-4-EXT_VLAN_NOTAVAIL: VLAN [dec] not available in Port Manager.

Explanation This message means that the port manager failed to allocate the requested VLAN. The VLAN is probably being used as an internal VLAN by other features. [dec] is the requested VLAN.

Recommended Action Try to configure a different VLAN on the device.

Error Message PM-4-INACTIVE: putting [chars] in inactive state because [chars].

Explanation This message means that the port manager has been blocked from creating a virtual port for the switch port and VLAN, causing the port to be in an inactive state. The reason for this condition is specified in the error message. The first [chars] is the interface name, and the second [chars] is the reason.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show**tech-support user EXEC command to gather data that might help identify the nature of the error.

Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-INT_FAILUP: [chars] failed to come up. No internal VLAN available.

Explanation This message means that the port manager failed to allocate an internal VLAN, and therefore the interface cannot be enabled. [chars] is the interface name.

Recommended Action Remove the extended-range VLAN by using the **no vlan** *vlan-id* global configuration command to free up resources.

 ${\bf Error\ Message\ PM-4-INT_VLAN_NOTAVAIL:}$ Failed to allocate internal VLAN in Port Manager.

Explanation This message means that the port manager failed to find any available internal VLAN.

Recommended Action Delete some extended-range VLANs created by users, or remove some features that require internal VLAN allocation. To delete extended-range VLANs, use the **no vlan** *vlan-id* global configuration command.

Error Message PM-4-INVALID_HOST_ACCESS_ENTRY: Invalid Host access entry type ([dec])
is received.

Explanation This message means that an invalid host access entry type was received; the host access entry should be a configured or a dynamic type. [dec] is the entry type that is received.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-LIMITS: The number of vlan-port instances on [chars] exceeded the recommended limit of [dec].

Explanation This message means that the total number of individual VLAN ports, counted over the module or switch, has exceeded the recommended limit. VLANs can be counted more than once; if VLAN 1 is carried on ten interfaces, it will count as ten VLAN ports. On some platforms bundling is also ignored for purposes of this count; if eight interfaces on the same module are in one bundle, and the port channel is carrying VLAN 1, it will count as eight VLAN ports. [chars] is the module name (for example, switch or the module number), and [dec] is the recommended limit.

Recommended Action Reduce the number of trunks and VLANs configured in the module or switch as recommended in [dec]. Enter the **show interfaces trunk** privileged EXEC command to see the total number of trunks and VLANs.

Error Message PM-4-NO_SUBBLOCK: No PM subblock found for [chars].

Explanation This message means that the port manager failed to find the subblock for this interface. [chars] is the interface name.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-PORT_BOUNCED: Port [chars] was bounced by [chars].

Explanation This message means that during a switchover when the port was in the link-down state, the port manager restarted the port. A port can be restarted only when the port data structures are not consistent in the active and standby supervisors. Active ports in the link-down state are returned to the link-up state when the port is restarted (the re-activation event). The first [chars] is the port number, and the second [chars] is the re-activation event.

Recommended Action No action is required.

Error Message PM-4-PVLAN TYPE CFG ERR: Failed to set VLAN [dec] to a [chars] VLAN.

Explanation This message means that the platform failed to set a private VLAN type. [dec] is the VLAN ID.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-TOO_MANY_APP: application '[chars]' exceeded registration limit.

Explanation This message means that the port manager detected an invalid request. [chars] is the application.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-UNKNOWN_HOST_ACCESS: Invalid Host access value ([dec]) is received.

Explanation This message means that the host access table is being accessed with an invalid host access value. [dec] is the value that is received.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show**tech-support user EXEC command to gather data that might help identify the nature of the error.

Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message PM-4-VMPS_CFG: Dynamic access VLAN [dec] same as voice vlan on [chars].

Explanation This message means that the access VLAN ID on the VMPS server is the same as the voice VLAN ID on the interface. [dec] is the access VLAN ID, and [chars] is the physical interface.

Recommended Action Assign the access VLAN on the VMPS server to a VLAN ID that is different from the voice VLAN ID.

PORT_SECURITY Messages

This section contains the port security messages.

Error Message PORT_SECURITY-2-PSECURE_VIOLATION: Security violation occurred caused by MAC [enet] on port [chars].

Explanation This message means that an unauthorized device attempted to connect on a secure port. MAC [enet] is the MAC address of the unauthorized device, and port [chars] is the secure port.

Recommended Action Identify the device that attempted to connect on the secure port. Notify your network system administrator of this condition.

Error Message PORT_SECURITY-6-ADDR_REMOVED: Address [dec]:[enet] exists on port [chars]. It has been removed from port [chars].

Explanation This message means that a routed port is reconfigured as a switch port. The address in the previous switch configuration conflicts with the information in the running configuration and has been deleted. [dec]:[enet] is the MAC address of the port. [chars] is the reconfigured port.

Recommended Action No action is required.

Error Message PORT_SECURITY-6-VLAN_FULL: Vlan [dec] on port [chars] has reached its limit. Address [enet] has been removed.

Explanation This message means that the voice VLAN is the same as the access VLAN and that the maximum number of MAC addresses reached the maximum limit allowed on the access VLAN. The address is deleted. [dec] is the VLAN ID, [chars] is the port assigned to the voice VLAN and the access VLAN, and [enet] is the MAC address that is deleted.

Recommended Action No action is required.

Error Message PORT_SECURITY-6-VLAN_REMOVED: VLAN [dec] is no longer allowed on port [chars]. Its port security configuration has been removed.

Explanation This message means that the VLAN is not allowed on the trunk port and is removed from the trunk port configuration. [dec] is the VLAN ID, and [chars] is the switch port assigned to the VLAN.

Recommended Action No action is required.

QOSMGR Messages

This section contains the quality of service (QoS) manager messages. An incorrect QoS setting causes these messages.

Error Message QOSMGR-3-FEATURE_NOT_FOUND: Cannot find feature for [chars].

Explanation This message means that an internal software error has occurred. [chars] is the description of the feature that the software cannot find.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-FILTERTYPE_INVALID: Internal Error Invalid Policy filtertype
[dec].

Explanation This message means that an internal software error has occurred. [dec] is the invalid filter type identification.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-MERGE_RES_COUNT: Internal Error Invalid count.

Explanation This message means that an internal software error has occurred.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-NO_POLICER_QOSLABEL: Creating port Class Label Failed.

Explanation This message means that an internal software error has occurred.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-NO_VMR_QOSLABEL: qm_generate_vmrs have no qos label.

Explanation This message means that an internal software error has occurred.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show** running-config user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-NULL_POLICER: Internal Error Invalid Policer.

Explanation This message means that an internal software error has occurred.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-POLICER_RES_COUNT: Internal Error Invalid Policer count.

Explanation This message means that an internal software error has occurred.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-POLICYMAP_NOT_FOUND: Cannot find policymap for [chars].

Explanation This message means that an internal software error has occurred. [chars] is the policy-map name.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-QUEUE_PTR_ERROR: queue pointers out of order [hex] [hex]
[hex] [hex].

Explanation This message means that an internal software error has occurred. [hex] [hex] [hex] are the software-computed queue pointer values. The parameters provide error details for technical support.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-RESERVE_COUNT_ERROR: Reserved Count Exceeding total [dec].

Explanation This message means that an internal software error has occurred in the allocated reserved buffers. [dec] is the reserved count computed by the software.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-RESOURCE INTERNAL: Internal Error in resource allocation.

Explanation This message means that an internal software error has occurred.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-3-VMRSEQ_INVALID: Internal Error Invalid VMR sequence.

Explanation This message means that an internal software error has occurred.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show running-config** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-4-ACTION_NOT_SUPPORTED: Action is not supported in policymap [chars].

Explanation This message means that an action other than the **set**, **trust**, and **police** policy-map class configuration commands was configured in a policy map. This is a hardware limitation. [chars] is the policy-map name.

Recommended Action Configure only the supported actions of **set**, **trust**, and **police** when in policy-map class configuration mode.

Error Message QOSMGR-4-CLASS_NOT_SUPPORTED: Classification is not supported in classmap [chars].

Explanation This message means that an unsupported **match** class-map configuration command was configured in a policy map and attached to an egress interface or that more than one **match** class-map command was configured. This is a hardware limitation. [chars] is the class-map name.

Recommended Action Reconfigure the class map or the policy map. Use only the **match ip dscp** *dscp-list* class-map configuration command in a policy map that is attached to an egress interface. Only one match per class map is supported.

Error Message QOSMGR-4-COMMAND_FAILURE: Execution of [chars] command failed.

Explanation This message means that the command to configure a QoS setting failed. This is possibly due to lack of hardware resources. [chars] is the description of the command.

Recommended Action Check if any other messages indicate resource failure. If other messages indicate that the hardware resources are exceeded, retry the command with a smaller configuration. Find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message QOSMGR-4-HARDWARE_NOT_SUPPORTED: Hardware limitation has reached for policymap [chars].

Explanation This message means that the policy-map configuration has exceeded the limitation of the hardware. You configured more QoS ACL entries than the number specified in the Switch Database Management (SDM) template. [chars] is the policy-map name.

Recommended Action Reconfigure the class map or the policy map, and reduce the number of QoS ACLs.

Error Message QOSMGR-4-MATCH_NOT_SUPPORTED: Match type is not supported in classmap [chars].

Explanation This message means that an unsupported match type was entered. Only the **access-group** *acl-index-or-name*, **ip dscp** *dscp-list*, and **ip precedence** *ip-precedence-list* match types are supported with the **match** class-map configuration command. [chars] is the class-map name.

Recommended Action Reconfigure the class map; use only the **match access-group**, **match ip dscp**, and **match ip precedence** class-map configuration commands within the class map.

Error Message QOSMGR-4-NOT_SUPPORTED: Action '[chars]' is not supported for a policymap attached to output side.

Explanation This message means that a **set** or **trust** policy-map class configuration command was configured in a policy map and attached to an egress interface. A warning message is logged, and the actions do not take affect. This is a hardware limitation. [chars] is either the set or trust action.

Recommended Action Do not configure a **set** or **trust** policy-map class configuration command in a policy map and attach it to an egress interface. These policy-map actions are supported only on ingress interfaces.

Error Message QOSMGR-4-POLICER_PLATFORM_NOT_SUPPORTED: Policer configuration has exceeded hardware limitation for policymap [chars].

Explanation This message means that the policy-map configuration has exceeded the limitation of the hardware. You configured more policers together in all policy maps (by using the **police** or **police aggregate** policy-map class configuration command) than supported by hardware. [chars] is the policy-map name.

Recommended Action Reconfigure the class maps or the policy maps, or delete the policy map from some interfaces.

Error Message QOSMGR-4-POLICER_POLICY_NOT_SUPPORTED: Number of policers has exceeded per policy hardware limitation for policymap [chars].

Explanation This message means that the policy-map configuration has exceeded the limitation of the hardware. You configured more policers in a policy map (by using the **police** or **police aggregate** policy-map class configuration command) than supported. [chars] is the policy-map name.

Recommended Action Reconfigure the class map or the policy map, and reduce the number of policers.

RMON Messages

This section contains the remote network monitoring (RMON) messages.

Error Message RMON-5-FALLINGTRAP: Falling trap is generated because the value of [chars] has fallen below the falling-threshold value [dec].

Explanation This message means that a falling trap has been generated. The value of the specified MIB object has fallen below the falling threshold value. [chars] is the MIB object, and [dec] is the threshold value.

Recommended Action Take appropriate action on the specified MIB object.

Error Message RMON-5-RISINGTRAP: Rising trap is generated because the value of [chars] exceeded the rising-threshold value [dec].

Explanation This message means that a rising trap has been generated. The value of the specified MIB object has exceeded the rising threshold value. [chars] is the MIB object, and [dec] is the threshold value.

Recommended Action Take appropriate action on the specified object.

SPAN Messages

This section contains the Switched Port Analyzer (SPAN) messages.

Error Message SPAN-3-MEM_UNAVAIL: Memory was not available to perform the SPAN operation.

Explanation This message means that the system was unable to perform a SPAN operation because of a lack of memory.

Recommended Action Reduce other system activity to ease the memory demands.

Error Message SPAN-3-UNKN_ERR: An internal error occurred during a SPAN operation.

Explanation This message means that SPAN detected an error in its internal operation.

Recommended Action The error might be transient. Try the SPAN operation again. If a second attempt also fails, reload the switch by using the **reload** privileged EXEC command to complete the operation.

Error Message SPAN-3-UNKN_ERR_PORT: An internal error occurred when configuring SPAN on port [chars].

Explanation This message means that SPAN detected an error in its internal operation. [chars] is the interface.

Recommended Action The error might be transient. Try the SPAN operation again. If the second attempt also fails, reload the switch by using the **reload** privileged EXEC command to complete the operation.

SPANTREE Messages

This section contains the spanning-tree messages.

Error Message SPANTREE-2-BLOCK_BPDUGUARD: Received BPDU on port [chars] with BPDU Guard enabled. Disabling port.

Explanation This message means that a bridge protocol data unit (BPDU) was received on an interface that has the spanning tree BPDU guard feature enabled. As a result, the interface was administratively shut down. [chars] is the interface name.

Recommended Action Either remove the device sending BPDUs, or disable the BPDU guard feature. The BPDU guard feature can be locally configured on the interface or globally configured on all ports that have PortFast enabled. To disable BPDU guard on an interface, use the **no spanning-tree bpduguard enable** interface configuration command. To disable BPDU guard globally, use the **no spanning-tree portfast bpduguard default** global configuration command. After you have removed the device or disabled BPDU guard, re-enable the interface by entering the **no shutdown** interface configuration command.

Error Message SPANTREE-2-BLOCK_PVID_LOCAL: Blocking [chars] on [chars]. Inconsistent local vlan.

Explanation This message means that the spanning-tree port associated with the listed spanning-tree instance and interface will be held in the spanning-tree blocking state until the port VLAN ID (PVID) inconsistency is resolved. The listed spanning-tree instance is that of the native VLAN ID of the listed interface. The first [chars] is the interface, and the second [chars] is the spanning-tree instance.

Recommended Action Verify that the configuration of the native VLAN ID is consistent on the interfaces on each end of the IEEE 802.1Q trunk connection. When corrected, spanning tree automatically unblocks the interfaces, as appropriate.

Error Message SPANTREE-2-BLOCK_PVID_PEER: Blocking [chars] on [chars]. Inconsistent peer vlan.

Explanation This message means that the spanning-tree port associated with the listed spanning-tree instance and interface will be held in the spanning-tree blocking state until the port VLAN ID (PVID) inconsistency is resolved. The listed spanning-tree instance is that of the native VLAN ID of the interface on the peer switch to which the listed interface is connected. The first [chars] is the interface, and the second [chars] is the spanning-tree instance.

Recommended Action Verify that the configuration of the native VLAN ID is consistent on the interfaces on each end of the IEEE 802.1Q trunk connection. When interface inconsistencies are corrected, spanning tree automatically unblocks the interfaces.

Error Message SPANTREE-2-CHNL_MISCFG: Detected loop due to etherchannel misconfiguration of [chars] [chars].

Explanation This message means that a misconfiguration of a channel group has been detected. For example, the ports on one side of the EtherChannel either are not configured to be in the channel or failed to bundle into the channel and the other side has successfully bundled the ports into the EtherChannel. The first [chars] is the port, and the second [chars] is the VLAN.

Recommended Action Identify the local ports using the **show interfaces status err-disabled** privileged EXEC command, and then check the EtherChannel configuration on the remote device by using the **show etherchannel summary** privileged EXEC command on the remote device. After the configuration is correct, enter the **shutdown** and then **no shutdown** interface configuration commands on the associated port-channel interfaces.

Error Message SPANTREE-2-LOOPGUARD_BLOCK: Loop guard blocking port [chars] on [chars].

Explanation This message means that the spanning-tree message age timer has expired because no BPDUs were received from the designated bridge. Because this condition could be caused by a unidirectional-link failure, the interface is put into the blocking state and marked as loopguard-inconsistent to prevent possible loops from being created. The first [chars] is the port name, and the second [chars] is the spanning-tree mode displayed in the **show spanning-tree** privileged EXEC command.

Recommended Action Enter the **show spanning-tree inconsistentports** privileged EXEC command to review the list of interfaces with loopguard inconsistencies. Find out why devices connected to the listed ports are not sending BPDUs. One reason might be that they are not running the STP. If so, you should disable loop guard on the inconsistent interfaces by using the **spanning-tree guard none** interface configuration command or by starting the STP on the remote side of the links.

Error Message SPANTREE-2-LOOPGUARD_CONFIG_CHANGE: Loop guard [chars] on port [chars] on [chars].

Explanation This message means that the spanning-tree loopguard configuration for the listed interface has been changed. If enabled, the interface is placed into the blocking state. It is marked as loopguard-inconsistent when the message-age timer expires because no BPDUs were received from the designated bridge. This feature is mainly used to detect unidirectional links. The first [chars] is the loopguard state (*enable* or *disable*), the second [chars] is the interface name, and the third [chars] is the spanning-tree instance.

Recommended Action Verify that this is the desired configuration for the listed interface. Correct it if this is not the desired configuration; otherwise, no further action is required.

Error Message SPANTREE-2-LOOPGUARD_UNBLOCK: Loop guard unblocking port [chars] on [chars].

Explanation This message means that the listed interface has received a BPDU, and therefore, if the inconsistency was caused by a unidirectional link failure, the problem no longer exists. The loopguard-inconsistency is cleared for the interface, which is taken out of the blocking state, if appropriate. The first [chars] is the port name, and the second [chars] is the spanning-tree mode displayed in the **show spanning-tree** privileged EXEC command.

Recommended Action No action is required.

Error Message SPANTREE-2-PVSTSIM_FAIL: Superior PVST BPDU received on VLAN [dec] port [chars], claiming root [dec]:[enet]. Invoking root guard to block the port.

Explanation This message means that root guard blocked a port that might cause a spanning-tree loop. When a PVST+ switch is connected to an MST switch, the IST root (MSTOO) becomes the root for all PVST+ spanning trees. A loop can occur if any of the PVST+ spanning trees have a better root than IST. To prevent the loop, root guard blocks the port on the MST switch that receives the superior message from the PVST+ side. The first [dec] is the VLAN ID, [chars] is the short interface name, such as Gi0/1, the second [dec] is the root bridge priority, and [enet] is the root bridge MAC address.

Recommended Action When spanning tree converges after a new switch or switch port is added to the topology, root guard might temporarily block the port and then automatically restore it. If the port remains blocked, identify the root bridge from this error message, and configure a less favorable priority for the VLAN spanning tree. There could be other superior PVST roots, and the port cannot recover until all such roots are cleared. Alternatively, try disabling and then enabling the VLAN port.

Error Message SPANTREE-2-RECV_1Q_NON_1QTRUNK: Received 802.1Q BPDU on non 802.1Q trunk [chars] [chars].

Explanation This message means that the listed interface on which a Shared Spanning Tree Protocol (SSTP) BPDU was received was in trunk mode but was not using IEEE 802.1Q encapsulation. The first [chars] is the port, and the second [chars] is the VLAN.

Recommended Action Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected are in the same mode (access or trunk). If the mode is trunk, verify that both interfaces have the same encapsulation (ISL or IEEE 802.1Q). If the encapsulation types are different, use the **switchport trunk encapsulation** interface configuration command to make them consistent. When the encapsulation is consistent, spanning tree automatically unblocks the interface.

Error Message SPANTREE-2-RECV_BAD_TLV: Received SSTP BPDU with bad TLV on [chars]
[chars].

Explanation This message means that the listed interface received an SSTP BPDU without the VLAN ID tag. The BPDU is discarded. The first [chars] is the port, and the second [chars] is the VLAN that received the SSTP BPDU.

Error Message SPANTREE-2-RECV_PVID_ERR: Received BPDU with inconsistent peer vlan id [dec] on [chars] [chars].

Explanation This message means that the listed interface received an SSTP BPDU that is tagged with a VLAN ID that does not match the VLAN ID on which the BPDU was received. This occurs when the native VLAN is not consistently configured on both ends of an IEEE 802.1Q trunk. [dec] is the VLAN ID, the first [chars] is the port, and the second [chars] is the VLAN.

Recommended Action Verify that the configurations of the native VLAN ID is consistent on the interfaces on each end of the IEEE 802.1Q trunk connection. When the configurations are consistent, spanning tree automatically unblocks the interfaces.

Error Message SPANTREE-2-ROOTGUARD_BLOCK: Root guard blocking port [chars] on [chars].

Explanation This message means that on the listed interface a BPDU was received that advertises a superior spanning-tree root bridge (lower bridge ID, lower path cost, and so forth) than that in use. The interface is put into blocking state and marked as *root-guard inconsistent* to prevent a suboptimal spanning-tree topology from forming. The first [chars] is the port name, and the second [chars] is the spanning-tree mode displayed in the output of the **show spanning-tree** privileged EXEC command.

Recommended Action Enter the **show spanning-tree inconsistentports** privileged EXEC command to review the list of interfaces with root-guard inconsistencies. Find out why devices connected to the listed ports are sending BPDUs with a superior root bridge, and take action to prevent more occurrences. When the inaccurate BPDUs have been stopped, the interfaces automatically recover and resume normal operation. Make sure that it is appropriate to have root guard enabled on the interface.

Error Message SPANTREE-2-ROOTGUARD_CONFIG_CHANGE: Root guard [chars] on port [chars] on [chars].

Explanation This message means that the spanning-tree root guard configuration for the listed interface has changed. If enabled, any BPDU received on this interface that advertises a superior spanning-tree root bridge (lower bridge ID, lower path cost, and so forth) to that already in use causes the interface to be put into the blocking state and marked as *root-guard inconsistent*. The first [chars] is the root-guard state (*enable* or *disable*), the second [chars] is the interface, and the third [chars] is the spanning-tree instance.

Recommended Action Verify that this is the desired configuration for the listed interface. Correct it if it is not the desired configuration; otherwise, no action is required.

Error Message SPANTREE-2-ROOTGUARD_UNBLOCK: Root guard unblocking port [chars] on [chars].

Explanation This message means that the listed interface is no longer receiving BPDUs advertising a superior root bridge (lower bridge ID, lower path cost, and so forth). The root-guard inconsistency is cleared for the interface, and the blocking state is removed from the interface. The first [chars] is the port name, and the second [chars] is the spanning-tree mode displayed in **show spanning-tree** privileged EXEC command.

Recommended Action No action is required.

Error Message SPANTREE-2-UNBLOCK_CONSIST_PORT: Unblocking [chars] on [chars]. Port consistency restored.

Explanation This message means that the port VLAN ID or port type inconsistencies have been resolved and spanning tree will unblock the listed interface of the listed spanning-tree instance as appropriate. The first [chars] is the interface, and the second [chars] is the spanning-tree instance.

Recommended Action No action is required.

Error Message SPANTREE-3-BAD_PORTNUM_SIZE: Rejected an attempt to set the port number field size to [dec] bits (valid range is [dec] to [dec] bits).

Explanation This message means that an error occurred in the platform-specific code that caused it to request more or less bits than are possible. The spanning-tree port identifier is a 16-bit field, which is divided evenly between the port priority and port number, with each subfield being 8 bits. This allows the port number field to represent port numbers between 1 and 255. However, on systems with more than 255 ports, the size of port number portion of the port ID must be increased to support the number of ports. This is performed by the spanning-tree subsystem at system initialization because the maximum number of ports on a particular platform will not change. This error occurs because of an error in the platform-specific code, which causes it to request more or less bits than are possible. The first [dec] is the number of bits for the port number, and the second and third [dec] describe the valid range.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Enter the **show version** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SPANTREE-3-PORT_SELF_LOOPED: [chars] disabled.- received BPDU src mac
([enet]) same as that of interface.

Explanation This message means that a BPDU was received on the listed interface with a source MAC address that matches the one assigned to the listed interface. This means that a port might be looped back to itself, possibly because of an installed diagnostic cable. The interface will be administratively shut down. [chars] is the interface that received the BPDU, and [enet] is the source MAC address.

Recommended Action Check the interface configuration and any cable connected to the interface. When the problem is resolved, re-enable the interface by entering the **no shutdown** interface configuration command.

Error Message SPANTREE-4-PORT NOT FORWARDING: [chars] [chars] [chars].

Explanation This message appears when a port-not-forwarding alarm is set or cleared. The first [chars] is the mode (for example, assert or clear), and the second [chars] is the severity (for example, minor). The third [chars] is the interface name, and the fourth [chars] is the alarm string (for example, port not forwarding).

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SPANTREE-5-EXTENDED_SYSID: Extended SysId [chars] for type [chars].

Explanation This message means that the extended system ID feature is either enabled or disabled for the given type of spanning tree. If enabled, the spanning-tree instance identifier is stored in the lower portion of the bridge ID priority field and limits the allowed values for the bridge priority from 0 to 61440, in increments of 4096. If disabled, the bridge ID priority field consists only of the configured priority, but some spanning-tree features might not be available on a given platform (for example, support for 4096 VLANs). On some platforms, this feature might be mandatory. The first [chars] is the extended system ID state (*enable* or *disable*), and the second [chars] is the spanning-tree instance.

Recommended Action No action is required.

Error Message SPANTREE-5-ROOTCHANGE: Root Changed for [chars] [dec]: New Root Port is [chars]. New Root Mac Address is [enet].

Explanation This message means that the root switch changed for a spanning-tree instance. The first [chars] and [dec] is the interface ID for the previous root port, the second [chars] is the interface ID for the new root port, and [enet] is the Ethernet address of the new root port.

Recommended Action No action is required.

Error Message SPANTREE-5-TOPOTRAP: Topology Change Trap for [chars] [dec].

Explanation This message means that a trap was generated because of a topology change in the network.

Recommended Action No action is required.

Error Message SPANTREE-6-PORT_STATE: Port [chars] instance [dec] moving from [chars] to [chars].

Explanation This message means that the port state changed. The first [chars] is the interface name. [dec] is the spanning-tree instance ID. The second [chars] is the old state (such as listening, learning, or forwarding, and so forth), and the third [chars] is the new state.

Recommended Action No action is required.

Error Message SPANTREE-7-BLOCK_PORT_TYPE: Blocking [chars] on [chars]. Inconsistent port type.

Explanation This message means that the listed interface is being held in the spanning-tree blocking state until the port-type inconsistency is resolved. The first [chars] is the interface, and the second [chars] is the spanning-tree instance.

Recommended Action Verify that the configuration and operational states of the listed interface and those of the interface to which it is connected are in the same mode (*access* or *trunk*). If the mode is trunk, verify that both interfaces have the same encapsulation (*ISL* or *IEEE 802.1Q*). When these parameters are consistent, spanning tree automatically unblocks the interface.

Error Message SPANTREE-7-PORTDEL_SUCCESS: [chars] deleted from Vlan [dec].

Explanation This message means that the interface has been deleted from VLAN. [chars] is the interface, and [dec] is the VLAN ID.

Recommended Action No action is required.

Error Message SPANTREE-7-RECV_1Q_NON_TRUNK: Received 802.1Q BPDU on non trunk
[chars] [chars].

Explanation This message means that an SSTP BPDU was received on the listed interface, which is not an operational trunking interface. The first [chars] is the port name, and the second [chars] is the VLAN name.

Recommended Action Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected are in the same mode (*access* or *trunk*). If the mode is trunk, verify that both interfaces have the same encapsulation (*none*, *ISL*, or *IEEE 802.1Q*). When these parameters are consistent, spanning tree automatically unblocks the interface.

SPANTREE_FAST Messages

This section contains the spanning-tree fast-convergence message.

Error Message SPANTREE_FAST-7-PORT_FWD_UPLINK: [chars] [chars] moved to Forwarding (UplinkFast).

Explanation This message means that the listed interface has been selected as the new path to the root switch for the listed spanning-tree instance. The first [chars] is the spanning-tree instance, and the second [chars] is the interface.

Recommended Action No action is required.

SPANTREE_VLAN_SW Messages

The section contains the per-VLAN spanning-tree-specific message.

Error Message SPANTREE_VLAN_SW-2-MAX_INSTANCE: Platform limit of [dec] STP instances exceeded. No instance created for [chars] (port [chars]).

Explanation This message means that the number of currently active VLAN spanning-tree instances has reached a platform-specific limit. No additional VLAN instances will be created until the number of existing instances drops below the platform limit. [dec] is the spanning-tree instance limit, and the first [chars] is the smallest VLAN number of those VLANs that are unable to have spanning-tree instances created.

Recommended Action Reduce the number of currently active spanning-tree instances by either disabling some of the currently active spanning-tree instances or deleting the VLANs associated with them. You must manually enable the spanning trees that could not be created because of limited instances.

STORM_CONTROL Messages

This section contains the storm control messages.

Error Message STORM_CONTROL-3-FILTERED: A [chars] storm detected on [chars]. A packet filter action has been applied on the interface.

Explanation This message means that the amount of traffic detected on the interface has exceeded the configured threshold values. The system is filtering the excess traffic. The first [chars] is the traffic type, and the second [chars] is the interface.

Recommended Action Determine and fix the root cause of the excessive traffic on the interface.

Explanation This message means that the amount of traffic detected on the interface has exceeded the configured threshold values. Since the interface is configured to shutdown if a packet storm event is detected, it has been placed in an error-disabled state. [chars] is the affected interface.

Recommended Action You can enable error-disabled recovery by using the **errdisable recovery** global configuration command to automatically re-enable the interface. You should determine and fix the root cause of the excessive traffic on the interface.

SUPERVISOR Messages

This section contains the supervisor ASIC message. This ASIC controls the CPU and the switch send and receive ports.

Error Message SUPERVISOR-3-FATAL: [chars].

Explanation This message means that an internal error occurred in the supervisor ASIC. [chars] is the detailed error message.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

SUPQ Messages

This section contains the supervisor queue messages. These messages are related to CPU send and receive queues.

Error Message SUPQ-3-THROTTLE_CPU_QUEUE: Invalid application ID [dec] used for throttling.

Explanation This message means that an application has passed an invalid application ID for throttle check. [dec] is the internal application identifier.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SUPQ-4-CPUHB_RECV_STARVE: [chars].

Explanation This message means that the system has detected that messages directed to the CPU are delayed. [chars] is the detailed error message.

Error Message SUPQ-4-CPUHB_SLOW_TRANSMIT: [chars].

Explanation This message means that the system is warning you about a slowdown of the transmit interface. [chars] is the detailed error message.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SUPQ-4-CPUHB_TX_FAIL: [chars].

Explanation This message means that the system is warning you about the transmit interface discarding the heartbeat message. [chars] is the detailed error message.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SUPQ-4-PORT_QUEUE_STUCK: Port queue Stuck for asic [dec] port [dec] queue [dec].

Explanation This message means that the system has detected that an interface queue is not being cleared in a reasonable time. The first [dec] is the ASIC, the second [dec] is the interface, and the third [dec] is the queue number.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Explanation This message means that the system has detected that the receive queue is not being cleared in a reasonable time. The first [dec] is the ASIC, and the second [dec] is the queue number.

SW_VLAN Messages

This section contains the VLAN manager messages. The VLAN manager receives information from the VTP and enables the proper VLAN membership on all interfaces through the port manager.

Error Message SW_VLAN-3-VLAN_PM_NOTIFICATION_FAILURE: VLAN Manager synchronization failure with Port Manager over [chars].

Explanation This message means that the VLAN manager dropped a notification from the port manager because of a lack of ready pool space. [chars] is the type of port manager notification.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-3-VTP_PROTOCOL_ERROR: VTP protocol code internal error
[chars].

Explanation This message means that the VTP code encountered an unexpected error while processing a configuration request, a packet, or a timer expiration. [chars] is the internal error.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-BAD_PM_VLAN_COOKIE_RETURNED: VLAN manager unexpectedly received a bad PM VLAN cookie from the Port Manager, VLAN indicated [dec].

Explanation This message means that the VLAN manager received an upcall and a VLAN cookie from the port manager, which translated to a bad VLAN number. [dec] is the VLAN ID.

Recommended Action Find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-BAD_STARTUP_VLAN_CONFIG_FILE: Failed to configure VLAN from startup-config. Fallback to use VLAN configuration file from non-volatile memory.

Explanation This message means that the VLAN software did not use the VLAN configuration from the startup-configuration file. It will use the binary VLAN configuration file in NVRAM memory.

Recommended Action No action is required.

Error Message SW_VLAN-4-BAD_VLAN_CONFIGURATION_FILE: VLAN configuration file contained incorrect verification word [hex].

Explanation This message means that the VLAN configuration file read by the VLAN manager did not begin with the correct value. The VLAN configuration file is invalid, and it has been rejected. [hex] is the incorrect verification value.

Recommended Action Find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-BAD_VLAN_CONFIGURATION_FILE_VERSION: VLAN configuration file contained unknown file version [dec].

Explanation This message means that the VLAN configuration file read by the VLAN manager contained an unrecognized file version number, which might mean an attempt to regress to an older version of the VLAN manager software. [dec] is the file version number.

Recommended Action Find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-BAD_VLAN_TIMER_ACTIVE_VALUE: Encountered incorrect VLAN timer active value [chars].

Explanation This message means that, because of a software error, a VLAN timer was detected as active when it should have been inactive or as inactive when it should have been active. [chars] is the VLAN timer active value.

Error Message SW_VLAN-4-EXT_VLAN_INTERNAL_ERROR: Extended VLAN manager received an internal error [dec] from [chars] [chars].

Explanation This message means that an unexpected error code was received by the VLAN manager from the extended-range VLAN configuration software. [dec] is the error code. The first [chars] is the function, and the second [chars] describes the error code.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-EXT_VLAN_INVALID_DATABASE_DATA: Extended VLAN manager received bad data of type [chars] value [dec] from function [chars].

Explanation This message means that invalid data was received by the extended-range VLAN manager from an extended-range VLAN configuration database routine. The first [chars] is the data type, [dec] is the number received, and the second [chars] is the function name.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-IFS_FAILURE: VLAN manager encountered file operation error
call = [chars] / file = [chars] / code = [dec] ([chars]) / bytes transferred =
[dec].

Explanation This message means that the VLAN manager received an unexpected error return from a Cisco IOS file system (IFS) call while reading the VLAN database. The first [chars] is the function call name, and the second [chars] is the file name. [dec] is the error code, the third [chars] is the textual interpretation of the error code, and the second [dec] is the number of bytes transferred.

Error Message SW_VLAN-4-NO_PM_COOKIE_RETURNED: VLAN manager unexpectedly received a null [chars] type cookie from the Port Manager, data reference [chars].

Explanation This message means that the VLAN manager queried the port manager for a reference cookie but received a NULL pointer instead. The first [chars] is the type of port manager cookie, and the second [chars] is the interface or VLAN that is the source of the problem.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-STARTUP_EXT_VLAN_CONFIG_FILE_FAILED: Failed to configure extended range VLAN from startup-config. Error [chars].

Explanation This message means that the VLAN software failed to use an extended-range VLAN configuration from the startup configuration file. All extended-range VLAN configurations are lost after the system boots up. [chars] is a description of the error code.

Recommended Action No action is required.

Error Message SW_VLAN-4-VLAN_CREATE_FAIL: Failed to create VLANs [chars]: [chars].

Explanation This message means that the specified VLANs could not be created. The port manager might not have completed the VLAN creation requests because the VLANs already exist as internal VLANs. The first [chars] is the VLAN ID, and the second [chars] describes the error.

Recommended Action Check the internal VLAN usage by using **show vlan internal usage** privileged EXEC command, reconfigure the feature that is using the internal VLANs, and try to create the VLANs again. If this message appears again, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-VTP_INTERNAL_ERROR: VLAN manager received an internal error [dec] from vtp function [chars] [chars].

Explanation This message means that the VLAN manager received an unexpected error code from the VTP configuration software. [dec] is the error code, the first [chars] is the VTP function, and the second [chars] is the error-code description.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-VTP_INVALID_DATABASE_DATA: VLAN manager received bad data of type [chars] value [dec] from vtp database function [chars].

Explanation This message means that the VLAN manager received invalid data from a VTP configuration database routine. The first [chars] is the data type; [dec] is the inappropriate value that was received, and the second [chars] is the VTP database function.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-VTP_INVALID_EVENT_DATA: VLAN manager received bad data of type [chars] value [dec] while being called to handle a [chars] event.

Explanation This message means that the VLAN manager received invalid data from the VTP configuration software. The first [chars] is the data type, [dec] is the value of that data, and the second [chars] is the VTP event.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-VTP_SEM_BUSY: VTP semaphore is unavailable for function [chars]. Semaphore locked by [chars].

Explanation This message means that the VTP database is not available. You should access the VTP database later. The first [chars] is the function name that you want to configure, and the second [chars] is the function name that is using the VTP database.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-4-VTP_USER_NOTIFICATION: VTP protocol user notification: [chars].

Explanation This message means that the VTP code encountered an unusual diagnostic situation. [chars] is a description of the situation.

Recommended Action Find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message SW_VLAN-6-OLD_CONFIG_FILE_READ: Old version [dec] VLAN configuration file detected and read OK. Version [dec] files will be written in the future.

Explanation This message means that the VLAN software detected an old version of the VLAN configuration file format. It interpreted the file without a problem, but it will create files using the new format in the future. The first [dec] is the old version number, and the second [dec] is the new version number.

Recommended Action No action is required.

Error Message SW_VLAN-6-VTP_MODE_CHANGE: VLAN manager changing device mode from [chars] to [chars].

Explanation This message means that an automatic VTP mode device change occurred upon receipt of a VLAN configuration database message containing more than a set number of VLANs. The first [chars] is the previous mode, and the second [chars] is the current mode.

Recommended Action No action is required.

SWITCH_QOS_TB Messages

This section contains the QoS trusted boundary (TB) messages.

Error Message SWITCH_QOS_TB-5-TRUST_DEVICE_DETECTED: [chars] detected on port [chars], port trust enabled.

Explanation This message means that the trusted boundary software detected a device matching the trusted device setting for the port and has modified the port trust state. The first [chars] is the type of device detected, and the second [chars] is the port ID.

Recommended Action No action is required.

Error Message SWITCH_QOS_TB-5-TRUST_DEVICE_LOST: [chars] no longer detected on port [chars], port set to untrusted.

Explanation This message means that the trusted boundary software lost contact with a trusted device and has set the port trust state to untrusted. The first [chars] is the type of device detected, and the second [chars] is the port ID.

Recommended Action No action is required.

TCAMMGR Messages

This section contains the ternary content-addressable memory manager (TCAMMGR) messages.

Error Message TCAMMGR-3-GROW_ERROR: cam region [dec] can not grow.

Explanation This message means that the specified CAM region is configured as a static region with a fixed number of entries, and a caller requested to add more CAM entries. [dec] is the CAM region.

Error Message TCAMMGR-3-HANDLE ERROR: cam handle [hex] is invalid.

Explanation This message means that the CAM handle used by the caller is not valid. [hex] is the handle value.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message TCAMMGR-3-INDEX_ERROR: cam value/mask index [dec] is invalid.

Explanation This message means that the CAM index used by the caller is not valid. [dec] is the index value.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message TCAMMGR-3-MOVE_ERROR: cam entry move from index [int] to index [int] failed.

Explanation This message means that moving a CAM entry from one index to another failed. [int] is the index value.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message TCAMMGR-3-REGION_ERROR: cam region [dec] is invalid.

Explanation This message means that the CAM region is not valid. [dec] is the region.

Error Message TCAMMGR-3-REGMASK ERROR: invalid cam region [dec] mask [dec] pair.

Explanation This message means that a caller attempted to install an entry with an invalid mask for the region. Only a predetermined set of masks is allowed in a region. The first [dec] is the region, and the second [dec] is the mask.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

UDLD Messages

This section contains UniDirectional Link Detection (UDLD) messages.

Error Message UDLD-0-STOPPED:UDLD process stopped:[chars].

Explanation This message means that the UDLD process stopped because it cannot read the unique system identifier that is being used by UDLD. The system identifier is used to identify the device that is sending the UDLD packets. [chars] is the UDLD process name.

Recommended Action Reload the switch by using the **reload** privileged EXEC command. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message UDLD-3-UDLD_IDB_ERROR: UDLD error handling [chars] interface [chars].

Explanation This message means that a software error occurred in UDLD processing associated with a specific interface. The first [chars] is the event, and the second [chars] is the interface.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message UDLD-3-UDLD INTERNAL ERROR: UDLD internal error [chars].

Explanation This message means that a software check failed during UDLD processing. [chars] is a description of the internal error.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message UDLD-3-UDLD_INTERNAL_IF_ERROR: UDLD internal error, interface [chars]
[chars].

Explanation This message means that a software check failed during UDLD processing. The first [chars] is the interface, and the second [chars] is a description of the error.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message UDLD-4-UDLD_PORT_DISABLED: UDLD disabled interface [chars], [chars]
detected.

Explanation This message means that the UDLD Protocol disabled an interface because it detected connections between neighbors that were functioning only in one direction, which might potentially cause spanning-tree loops or interfere with connectivity. The cause is likely to be hardware related, either due to a bad port, a bad cable, or a misconfigured cable. The first [chars] is the interface, and the second [chars] is the error detected.

Research and attempt to resolve the error by using the Output Interpreter. Enter the **show tech-support** user EXEC command to gather data that might help identify the nature of the error. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message UDLD-6-UDLD_PORT_RESET: UDLD reset interface [chars].

Explanation This message means that the UDLD Protocol detected a unidirectional connection between neighbors. Reset the port that was disabled by UDLD by using the **udld reset** privileged EXEC command or through a hardware action such as a link-state change. [chars] is the interface.

Recommended Action Find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

UFAST_MCAST_SW Messages

This section contains UplinkFast (UFAST) packet transmission messages.

Error Message UFAST_MCAST_SW-3-PROC_START_ERROR: No process available for transmitting UplinkFast packets.

Explanation This message means that UplinkFast packets will not be sent because the process could not be created.

Recommended Action UplinkFast does not work unless you reload the switch software. If this problem persists even after reload, find out more about the error by using the **show tech-support** privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message UFAST_MCAST_SW-4-MEM_NOT_AVAILABLE: No memory is available for transmitting UplinkFast packets on Vlan [dec].

Explanation This message means that UplinkFast packets will not be sent on VLAN [dec] due to memory limitations. [dec] is the VLAN ID.

Recommended Action Reduce other system activity to ease memory demands.

VQPCLIENT Messages

This section contains VLAN Query Protocol (VQP) client messages.

Error Message VQPCLIENT-2-CHUNKFAIL: Could not allocate memory for VQP.

Explanation This message means that an error occurred when the system tried to allocate memory for the VQP client.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message VOPCLIENT-2-DENY: Host [enet] denied on interface [chars].

Explanation This message means that the VLAN Membership Policy Server (VMPS) has denied access for the given host MAC address to an interface. [enet] is the host MAC address, and [chars] is the interface name.

Recommended Action No action is normally required. If you think that the host should have been allowed access, verify the configuration on the VMPS.

Error Message VQPCLIENT-2-INITFAIL: Platform-specific VQP initialization failed. Quitting.

Explanation This message means that an error occurred during initialization of the VQP client platform-specific code.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message VQPCLIENT-2-IPSOCK: Could not obtain IP socket.

Explanation This message means that an error occurred when the system attempted to open an IP socket to the VMPS.

Error Message VOPCLIENT-2-PROCFAIL: Could not create process for VOP. Quitting.

Explanation This message means that an error occurred while creating a process for the VQP client.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the error by using the Output Interpreter. Use the Bug Toolkit to look for similar reported problems. If you still require assistance, open a case with the TAC, or contact your Cisco technical support representative, and provide the representative with the gathered information. For more information about these online tools and about contacting Cisco, see the "Error Message Traceback Reports" section on page 1-4.

Error Message VQPCLIENT-2-SHUTDOWN: Interface [chars] shutdown by VMPS.

Explanation This message means that the VMPS has directed that an interface be shut down. [chars] is the interface name.

Recommended Action No action is normally required. If you think that the port should not have been shut down, verify the configuration on the VMPS.

Error Message VQPCLIENT-2-TOOMANY: Interface [chars] shutdown by active host limit.

Explanation This message means that the system has shut down an interface because too many hosts have requested access to that port. [chars] is the interface name.

Recommended Action To reactivate the port, remove the excess hosts, and enter a **no shutdown** interface configuration command on the interface.

Error Message VQPCLIENT-3-IFNAME: Invalid interface ([chars]) in response.

Explanation This message means that the VMPS has sent an unsolicited response with an unknown interface name. [chars] is the name of the unknown interface.

Recommended Action Verify the VMPS configuration.

Error Message VQPCLIENT-3-THROTTLE: Throttling VLAN change on [chars].

Explanation This message means that an attempt was made to change the VLAN assignment for an interface more often than once every 10 seconds. The VLAN change is denied. [chars] is the interface name.

Recommended Action No action is normally required. If the message recurs, verify the VMPS configuration. Verify that unexpected hosts are not connected to the port.

Error Message VQPCLIENT-3-VLANNAME: Invalid VLAN ([chars]) in response.

Explanation This message means that the VMPS has specified a VLAN name that is unknown to the switch. [chars] is the invalid VLAN name.

Recommended Action Make sure that the VLAN exists on the switch. Verify the VMPS configuration.

Error Message VQPCLIENT-7-NEXTSERV: Trying next VMPS [IP_address].

Explanation This message means that the system has lost connectivity with the current VMPS and is changing to the next server in its list. [IP_address] is the address of the next server in the list.

Recommended Action This is a debug message only. No action is required.

Error Message VQPCLIENT-7-PROBE: Probing primary server [IP_address].

Explanation This message means that the system is trying to reestablish connectivity with the primary VMPS at the given IP address.

Recommended Action This is a debug message only. No action is required.

Error Message VQPCLIENT-7-RECONF: Reconfirming VMPS responses.

Explanation This message means that the switch is reconfirming all responses with the VMPS.

Recommended Action This is a debug message only. No action is required.

VQPCLIENT Messages



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